



All India Coordinated Research Project on Rice (AICRPR)

VARIETAL IMPROVEMENT TRIALS (IRRIGATED)

Technical Programme
2024



భారతీయ వరి పరిశోధనా సంస్థ
भारतीय चावल अनुसंधान संस्थान
ICAR-Indian Institute of Rice Research



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ICAR – IRR VARIETAL IMPROVEMENT TRIALS 2024

Ecosystem	Bo ro	Ear ly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N												
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62				
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total			
ZONE I – HILLY REGION																																						
MANIPUR																																						
Lamphelpat-ICAR				X	X																									X					3			
IMPHAL CAU				X	X																									X					3			
WANGBAL				X	X																														2			
MEGHALAYA																																						0
UPPER SHILLONG			X	X	X																														3			
Barapani (Umiam) ICAR				X																															1			
CAU, Barapani				X																															1			
SIKKIM																																						0
Gangtok				X																															1			
UTTARAKHAND																																						0
Almora- ICAR			X	X	X	X																								X					5			
Bageswar (Almora)																																			0			
JAMMU & KASHMIR																																						

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N												
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62				
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total			
KHUDWANI			X	X		X																													3			
Pombay (Khudwani)			X	X																																2		
Wadura (Khudwani)			X	X																																2		
Rajouri			X	X																																2		
Bandipore			X																																	1		
Larnoo			X																																	1		
Badarwa			X	X																																2		
HIMACHAL PRADESH																																						0
MALAN			X	X	X	X																														4		
Palampur			X																																	1		
Sundernagar (Malan)			X	X	X																															3		
Bajura (Malan)			X	X																																2		
Dhaulakaun			X	X	X																															3		
Bhertin					X																															1		
NAGALAND																																						0
Mediziphema - ICAR			X												X	X																				1		
Nagaland															X	X																				2		

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N												
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62				
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total			
(University)																																						
SOUTHERN HILLS																																						0
Gudaluru			X	X													X	X																		2		
Sirsi				X													X	X					X	X	X								X	X		8		
Ponnampet			X																																		1	
ZONE II-NORTHERN																																						0
New Delhi																														X		X	X			3		
IARI New Delhi																																					0	
UTTARAKHAND																																						0
PANTNAGAR							X	X	X	X	X	X	X	X																		X	X				10	
PUNJAB																																						0
LUDHIANA							X	X	X	X					X	X			X	X						X	X	X	X		X	X	X				15	
HARYANA																																						0
KAUL							X	X	X		X	X			X	X															X	X					9	
Karnal (ICAR- CSSRI)															X	X			X	X	X	X	X								X	X		X			10	
Rohtak (Karnal)																					X	X															2	
Jind (Karnal)																					X	X															2	

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N												
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62				
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total			
Panipat (Karnal)																					X	X													2			
Kurukshetra (Karnal)																					X	X													2			
Anjanitel(Karna l)																					X	X													2			
JAMMU KASHMIR																																						0
CHATHA									X	X	X	X	X	X																X		X			8			
RAJASTHAN																																						0
KOTA							X	X											X	X												X	X		6			
UTTAR PRADESH																																						0
NAGINA							X	X	X	X	X	X	X	X										X								X			10			
KANPUR									X												X	X			X										4			
ZONE III-EASTERN																																						0
ODISHA																																						0
Bhubaneswar											X	X	X	X	X	X	X																		8			
ICAR-NRRI (Cuttack)	X	X					X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		X	X	27			
JEYPORE	X	X					X	X	X	X	X	X	X	X			X	X	X	X				X						X	X				17			
CHIPLIMA	X	X					X	X	X	X	X	X	X	X			X	X	X	X												X			15			
Ranital																																				0		

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N												
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62				
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BIHAR																																						0
BIKRAMGANJ (Dhangain)							X	X	X	X	X	X	X	X	X	X	X	X	X	X					X						X					16		
PUSA	X														X	X	X	X								X	X	X	X	X		X				11		
Sabour							X	X	X	X	X	X	X	X					X	X					X					X						12		
Patna-ICAR							X	X							X	X															X					5		
JHARKHAND																																						0
RANCHI							X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X		X					18		
Hazaribagh							X	X							X	X																				4		
WEST BENGAL																																						0
CHINSURAH	X	X					X	X	X	X	X	X	X	X			X	X	X	X			X	X	X					X	X				X	20		
Canning-ICAR																							X	X											X	3		
Pundibhari	X					X																			X					X						4		
Hathwara							X	X	X	X									X	X					X											7		
Malda	X					X	X	X	X	X	X	X	X	X																						10		
BANKURA	X	X							X	X	X	X	X	X										X	X						X					11		
Gosaba																							X												X	2		
UTTAR PRADESH																																						0
MASODHA							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X						X	X	X			20		
Lucknow-ICAR																					X	X										X				3		
VARANASI							X	X	X	X						X	X	X	X	X					X					X	X	X	X			14		

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N										
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62		
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Gorakhpur											X	X	X	X											X							X				6
Gautam Budha Nagar(Karnal)																					X	X														2
Prayagraj								X				X																								2
ZONE IV- NORTH EASTERN																														0						
ASSAM																																				0
TITABAR	X					X	X	X	X	X	X	X	X	X			X	X	X	X					X					X	X	X	X		19	
Gerua-ICAR	X					X			X	X	X	X	X	X			X	X							X						X				12	
TRIPURA																														0						
ARUNDHU TINAGAR	X						X	X			X	X	X	X	X	X	X	X							X							X			13	
Lembucherra	X					X	X	X	X	X	X	X	X	X	X	X	X	X													X				15	
ZONE-V – CENTRAL																														0						
MADHYA PRADESH																														0						
Waraseoni											X	X	X	X											X										5	
REWA							X	X	X	X					X	X															X	X			8	
Jabalpur									X	X					X	X	X	X	X	X					X						X				10	
CHHATTISGARH																														0						
RAIPUR							X	X	X	X	X	X	X	X	X	X	X	X	X	X					X					X	X	X	X		19	
Ambikhapur									X	X	X	X	X	X										X											7	
JAGADALPUR							X	X	X	X	X	X	X	X	X	X			X	X					X						X				14	

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N										
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62		
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total	
Bilaspur							X	X	X	X	X	X	X	X					X	X					X											9
MAHARASHTRA																														0						
SAKOLI							X	X	X	X	X	X	X	X					X	X											X				11	
Sindewahi							X	X	X	X	X	X	X	X			X	X	X	X											X		X		14	
ZONE VI – WESTERN																														0						
MAHARASHTRA																														0						
KARJAT							X	X	X	X	X	X	X	X			X	X	X	X					X	X	X	X	X	X	X	X	X		20	
Panvel																							X	X										X	3	
Shirgaon											X	X	X	X			X	X													X		X		8	
Vadagaon									X	X			X	X												X	X	X	X			X			9	
Pondaghat													X	X																					2	
Parbhani															X	X																			2	
Radhanagari							X	X	X	X							X	X																	6	
GUJARAT																														0						
NAVSARI									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						X	X	X	X	X	22	
NAWAGAM							X	X	X	X	X	X	X	X			X	X	X	X					X						X	X	X		16	
Derol							X	X							X	X																			4	
Dabhoi							X	X									X	X																	4	
Vyara							X	X	X	X					X	X	X	X													X				9	
Baruch (Karnal)																							X	X										X	3	

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N											
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62			
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GOA																														0							
Goa																							X	X										X	3		
ZONE VII – SOUTHERN																														0							
ANDHRA PRADESH																														0							
Machilipatnam																							X	X										X	3		
MARUTERU		X					X	X	X	X	X	X	X	X			X	X	X	X						X	X	X	X		X	X				19	
Ragolu									X	X	X	X	X	X					X	X																8	
Bapatla																	X	X	X	X										X	X	X				7	
Nellore		X																	X	X											X					4	
TELANGANA																														0							
Rudrur							X	X											X	X																4	
ICAR-IIRR, Hyderabad																										X	X	X	X								4
RAJENDRAN AGAR		X							X	X	X	X	X	X			X	X	X	X					X						X	X				14	
Kampasagar		X					X	X							X	X	X	X			X	X			X											10	
Kunaram							X	X	X	X																										4	
WARANGAL		X					X	X	X	X	X	X	X	X			X	X													X	X				13	
Jagtial		X					X	X			X	X	X	X																						7	
TAMIL NADU																														0							
ADUTHURAI		X					X	X	X	X	X	X	X	X			X	X	X	X					X					X	X	X	X			18	

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N												
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62				
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total			
COIMBATOR E		X					X	X	X	X	X	X	X	X			X	X	X	X											X	X				15		
Tirur							X	X			X	X	X	X			X	X																		8		
Trichy																					X	X														2		
Annamalainaga r																					X	X														2		
KERALA																																						0
MONCOMPU		X					X	X	X	X									X	X											X	X	X			10		
PATTAMBI		X					X	X	X	X	X	X	X	X			X	X	X	X					X					X	X	X	X			18		
Vytilla																					X	X	X	X										X		5		
KARNATAKA																																						0
MANDYA		X					X	X	X	X	X	X	X	X	X	X	X	X	X	X						X	X	X	X		X	X				21		
MUGAD							X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X							X		X		19		
Kumta																																				0		
BRAHMAVAR		X					X	X	X	X	X	X	X	X					X	X			X	X					X				X	X		16		
GANGAVATI		X							X	X	X	X	X	X					X	X	X	X				X	X	X	X		X	X				17		
Malagi																	X	X	X	X					X											5		
Kathalgere									X	X	X	X	X	X																						6		
PUDUCHERRY																																						0
KURUMBAPE T							X	X	X	X	X	X	X	X			X	X													X	X				12		

Ecosystem	Bo ro	Ea rly Ra bi	Hills				Irrigated								Aerob		MS Grain		Biofort		Saline & Alkaline				A G T	P&N									
Trial No	21	22	23	24	25	26	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	54	55	57	58	59	60	61	62	
Location/Trial Name	AVT-IVT Boro 2023-24	AVT- IVT-Early 2023-24	AVT 1 & IVT – E (H)	AVT 2 & 1 & IVT-M (H)	AVT 1 & IVT – U (H)	AVT 1 J (H)	AVT 2 & 1- ETP	IVT- ETP	AVT2 &1- IME	IVT-IME	AVT2 &1- IM	IVT- IM	AVT 2 & 1 -Late	IVT-Late	AVT 2 & 1-Aerobic	IVT-Aerobic	AVT 2& 1-MS	IVT-MS	AVT- Biofort	IVT- Biofort	AVT2 &1- AL & ISTVT	IVT- AL & ISTVT	AVT 1 CSTVT	IVT-CSTVT	AVT & IVT AGT	AVT 2 & 1-LPT	IVT-LPT	AVT 2&1-LNT	IVT-LNT	IVT Coloured Rice	NILs & GELs	DSR	Special Trial on Biofort	AVT 2 NIL & CSTVT	Total
Puducherry									X		X	X	X	X			X	X	X	X	X	X		X											12
Karaikal							X	X	X	X	X	X							X	X	X	X	X	X	X					X				X	15
Andaman & Nicobar																														0					
Portblair																															X				1
Total Locations	12	18	17	19	9	8	49	50	52	49	48	49	48	48	25	26	39	39	38	38	18	18	15	14	35	10	10	10	10	22	41	33	16	15	
Total Entries	41	33	28	26	18	8	59	64	39	64	42	64	17	64	31	64	28	64	18	53	36	23	25	38	35	31	25	27	25	31	63	57	52	11	

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1	Trial No.	21
2	Name of the trial	Advance Variety Trial & Initial Variety Trial – Boro (AVT & IVT - BORO)
3	Objectives:	To study the comparative performance of cultures suitable for boro season
4	Total Locations	12
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	<ul style="list-style-type: none"> • Transplanting: <ul style="list-style-type: none"> ➤ 15 cm between rows ➤ 10 cm between plants
11	Total No. of entries	41
12	Check Varieties:	Varietal checks : Gautam, IR 64 ; <i>Hybrid Check : Rajalakshmi;</i> Localcheck
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant seedling as per the situation • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Cold Tolerance score 0-9 scale at 25-30 days old seedling stage. • Spikelet Fertility observation-- 1-3 scale[*] • Temperature records (min.& max. at nursery, vegetative and flowering stages) (Table enclosed) • Grain yield (kg/plot) • Panicles per sq m (No.) • Plant Height (cm) • Days to 50% flowering (No.) • Notes on grain shattering 1-3 scale[#] • Notes on lodging[@] 1-3 scale
When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield		

*: 1 -indicate fertile, 2- partially fertile (>50% fertility), 3- Sterile (<50% fertility visual observation).#: 1- No shattering, 2- moderate shattering, 3- shattering.

@: 1- No lodging, 2- partial lodging. 3- lodging.

**Layout plan of entries in Advance Variety Trial & Initial Variety Trial–Boro,
(AVT & IVT -Boro) 2023-24**

Replication 1 Plot No./ Entry No	Replication 2 Plot No./ Entry No	Replication 3 Plot No./ Entry No
101/2122	201/2105	301/2112
102/2105	202/2112	302/2109
103/2102	203/2111	303/2134
104/2115	204/2124	304/2118
105/2141(LC)	205/2103	305/2130
106/2114	206/2138	306/2133
107/2111	207/2106	307/2126
108/2124	208/2107	308/2125
109/2108	209/2136	309/2113
110/2132	210/2101	310/2139
111/2110	211/2127	311/2101
112/2136	212/2120	312/2141(LC)
113/2112	213/2125	313/2102
114/2133	214/2119	314/2120
115/2139	215/2133	315/2106
116/2118	216/2141(LC)	316/2124
117/2103	217/2117	317/2128
118/2140	218/2110	318/2108
119/2127	219/2131	319/2122
120/2134	220/2118	320/2110
121/2129	221/2104	321/2131
122/2131	222/2123	322/2103
123/2104	223/2115	323/2114
124/2123	224/2139	324/2107
125/2109	225/2102	325/2111
126/2135	226/2108	326/2137
127/2113	227/2122	327/2136
128/2101	228/2114	328/2105
129/2107	229/2128	329/2127
130/2128	230/2130	330/2115
131/2121	231/2135	331/2117
132/2120	232/2132	332/2123
133/2126	233/2121	333/2140
134/2130	234/2113	334/2119
135/2117	235/2126	335/2129
136/2137	236/2116	336/2104
137/2138	237/2109	337/2116
138/2119	238/2134	338/2138
139/2125	239/2129	339/2121
140/2106	240/2140	340/2132
141/2116	241/2137	341/2135

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Rabi 2023-24

1.	Trial No.	22
2	Name of the trial:	Initial Variety Trial – Early –Transplanted (IVT- E-TP)
3	Objective:	To study the comparative performance of early elite cultures in Rabi transplanted
		irrigated conditions
4	Locations:	18 (13 for zone VII)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	<ul style="list-style-type: none"> On the basis of soil type and recommended agronomic practices at the location. Entire P, K and 25% N as basal, 50% N after 25 days planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	10 sqm (This should be strictly followed)
10	Spacing:	20 cm between rows 15 cm between plants
11	No. of entries:	33 (31 for zone VII)
12	Check varieties:	National: CO-51; Zonal: Narendra 97 (Eastern), MTU 1153 (Southern); and Local Check.
13	General instructions:	<ul style="list-style-type: none"> Sow the seed in seedbed as thin as possible Planting of 25 days old 2-3 seedling/hill Transplant seedlings very shallow 1-2 seedlings / hill. Gap fill within a week of planting Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> Days to 50% flowering (DFF) Plant height (cm) Panicles per sq m (No.) Number of fertile & sterile spikelets / Panicle Spikelet Fertility % (SPF) Purity score: (UNI) <ul style="list-style-type: none"> > = >95% pure > = 80-95% pure > = < 80% pure Number of completely sterile plants, if any Grain yield (kg/plot) based on net plot size to be reported Observations on incidence of diseases/pests Grain type Notes on lodging Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield,		

**Trial No.22: Layout plan of entries in Initial Variety Trial - Early Transplanted
(IVT-E TP), Rabi 2023-24**

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/2208	201/2226	301/2215
102/2217	202/2228	302/2211
103/2213	203/2210	303/2220
104/2227	204/2217	304/2214
105/2211	205/2219	305/2204
106/2224	206/2222	306/2207
107/2229	207/2206	307/2223
108/2207	208/2233(LC)	308/2218
109/2216	209/2215	309/2231
110/2228	210/2209	310/2232
111/2225	211/2216	311/2213
112/2205	212/2204	312/2228
113/2203	213/2220	313/2224
114/2210	214/2230	314/2206
115/2230	215/2203	315/2233(LC)
116/2226	216/2231	316/2230
117/2232	217/2223	317/2222
118/2209	218/2229	318/2205
119/2220	219/2213	319/2203
120/2204	220/2207	320/2219
121/2221	221/2224	321/2212
122/2206	222/2211	322/2227
123/2223	223/2218	323/2226
124/2214	224/2227	324/2221
125/2219	225/2208	325/2216
126/2233(LC)	226/2221	326/2209
127/2212	227/2214	327/2208
128/2231	228/2212	328/2229
129/2215	229/2232	329/2210
130/2222	230/2225	330/2217
131/2218	231/2205	331/2225

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Kharif 2024

1	Experiment No.:	23
2	Name of the trial:	Advance Variety Trial 1 & Initial Variety Trial- Irrigated Early (Hills) –AVT 1 & IVT-E (H)
3	Objective:	To study the comparative performance of elite early duration cold tolerant cultures under irrigated condition in hills
4	Locations:	17
5	Layout:	Randomized Block Design (RBD)
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need based
9	Plot size:	10 sq m(This should be strictly followed)
10	Spacing:	20 x 15 cm
11	No. of entries:	28
12	Check varieties:	National: Vivekdhan 86, Zonal: Shalimar Rice 3 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (Days) • Days to maturity (Days) • Notes on pests, diseases and lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
When the mean yield of the experiment is below 2.5 t/ha, kindly offer an explanation for the low yield.		

Trial No. 23: Layout plan of entries in Advance Variety Trial 1 & Initial Variety Trial- Irrigated Early (Hills) –AVT 1 & IVT-E (H), Kharif 2023

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.
101 /2316	201 /2312
102 /2318	202 /2317
103 /2328 (LC)	203 /2309
104 /2303	204 /2319
105 /2307	205 /2325
106 /2327	206 /2306
107 /2302	207 /2311
108 /2317	208 /2327
109 /2325	209 /2308
110 /2324	210 /2307
111 /2310	211 /2315
112 /2326	212 /2321
113 /2311	213 /2328 (LC)
114 /2305	214 /2314
115 /2312	215 /2304
116 /2304	216 /2316
117 /2315	217 /2310
118 /2319	218 /2313
119 /2314	219 /2318
120 /2308	220 /2301
121 /2301	221 /2323
122 /2306	222 /2322
123 /2321	223 /2305
124 /2322	224 /2326
125 /2309	225 /2320
126 /2320	226 /2303
127 /2323	227 /2302
128 /2313	228 /2324

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Kharif 2024

1	Experiment No.:	24
2	Name of the trial:	Advance Variety Trial 2 & 1 & Initial Variety Trial -Medium (Hills) – AVT 2 & 1 & IVT- M (H)-Irrigated
3	Objective:	To study the comparative performance of elite medium duration cold tolerant cultures under irrigated condition in hills
4	Locations:	19
5	Layout:	Randomized Block Design (RBD)
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need based
9	Plot size:	15 sq m(This should be strictly followed)
10	Spacing:	20 x 15 cm
11	No. of entries:	26
12	Check varieties:	National: Vivekdhan 62, Zonal: VL Dhan 68 (North & South), RC Maniphou 11 (North East)and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (Days) • Days to maturity (Days) • Notes on pests, diseases and lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
When the mean yield of the experiment is below 2.5 t/ha, kindly offer an explanation for the low yield.		

**Trial No.24: Layout plan of entries in Advance Variety Trial 2 & 1 & Initial Variety Trial -
Medium (Hills) –AVT 2 & 1 & IVT- M (H)-Kharif 2024**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.
101 /2424	201 /2416
102 /2414	202 /2402
103 /2425	203 /2406
104 /2415	204 /2420
105 /2426 (LC)	205 /2425
106 /2417	206 /2423
107 /2407	207 /2410
108 /2411	208 /2407
109 /2403	209 /2414
110 /2409	210 /2404
111 /2422	211 /2401
112 /2416	212 /2405
113 /2406	213 /2411
114 /2402	214 /2421
115 /2408	215 /2419
116 /2413	216 /2413
117 /2421	217 /2403
118 /2410	218 /2422
119 /2405	219 /2418
120 /2423	220 /2412
121 /2419	221 /2408
122 /2401	222 /2415
123 /2420	223 /2417
124 /2418	224 /2409
125 /2412	225 /2424
126 /2404	226 /2426 (LC)

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1	Experiment No.	25
2	Name of the trial:	Advance Variety Trial 1 & Initial Variety Trial-Upland (Hills) – AVT 1 & IVT-U (H)
3	Objective:	To study the comparative performance of elite medium duration cold tolerant cultures under rainfed upland condition in hills
4	Locations:	12
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need based
9	Plot size:	10 Sq m(This should be strictly followed)
10	Spacing:	20 X 15 cm
11	No. of entries:	18
12	Check varieties:	National: Sukaradhan 1, Zonal: VL Dhan 158 (North & South), Bhalum-1 (North East) and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Gap fill within a week of sowing • Incorporate fertilizer evenly • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (Days) • Days to maturity (Days) • Notes on pests, diseases and lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
When the mean yield of the experiment is below 2.0 t/ha, kindly offers an explanation for the low yield.		

**Trial No. 25: Layout plan of entries in Advance Variety Trial 1 & Initial Variety Trial-Upland
(Hills) – AVT 1 & IVT-U (H), Kharif 2024**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101 /2511	201 /2506	301 /2510
102 /2512	202 /2513	302 /2517
103 /2504	203 /2507	303 /2513
104 /2517	204 /2515	304 /2501
105 /2502	205 /2508	305 /2505
106 /2516	206 /2503	306 /2507
107 /2509	207 /2514	307 /2512
108 /2506	208 /2510	308 /2514
109 /2514	209 /2509	309 /2518 (LC)
110 /2515	210 /2502	310 /2506
111 /2510	211 /2512	311 /2503
112 /2518 (LC)	212 /2505	312 /2516
113 /2513	213 /2504	313 /2515
114 /2505	214 /2511	314 /2508
115 /2508	215 /2516	315 /2502
116 /2503	216 /2518 (LC)	316 /2511
117 /2501	217 /2517	317 /2504
118 /2507	218 /2501	318 /2509

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1	Experiment No.	26
2	Name of the trial:	Advance Variety Trial 1 & Initial Variety Trial - Japonica (AVT 1 & IVT-J)
3	Objective:	To evaluate comparative performance of japonicas for yield and quality characteristics.
4	Locations:	9
5	Layout:	Randomized Block Design (RBD)
6	Replications:	4
7	Fertilizer:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	10 sqm (This should be strictly followed)
10	Spacing:	20 cm between rows 15 cm between plants
11	No. of entries:	8
12	Check Varieties:	Shalimar Rice-5, Varundhan, Bhrigudhan and Local check.
13	General instructions:	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible. • Transplant 25 days old seedlings. • Transplant seedlings very shallow. • Gap fill within a week of transplanting. • Incorporate fertilizers evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Plant height (cm) • Days to 50% flowering (No.) • Days to maturity (No.) • Panicles/sq m (No.) • Panicle length (cm) • Panicle weight (g) • Sterility percentage • Test weight (g) • Grain yield (kg/plot) • Score on incidence of pest/disease in field and also conditions, if available
When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield,		

**Trial No. 26: Layout plan of entries in Advance Variety Trial 1 & Initial Variety Trial –
Japonica (AVT 1 & IVT-J), Kharif 2024**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No	Replication 4 Plot No. / Entry No
101 /2605	201 /2606	301 /2602	401 /2608
102 /2603	202 /2601	302 /2607 (LC)	402 /2605
103 /2604	203 /2605	303 /2608	403 /2603
104 /2601	204 /2607 (LC)	304 /2603	404 /2602
105 /2606	205 /2604	305 /2601	405 /2604
106 /2602	206 /2608	306 /2605	406 /2607 (LC)
107 /2607	207 /2602	307 /2604	407 /2606
108/2608 (LC)	208/2603	308/2606	408 /2601

ZONE II

ICAR-INDIAN INSTITUTE OF RICE RESEARCH
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Kharif 2024

1.	Trial No.	33
2	Name of the trial:	Advance Variety Trial 2– Early –Transplanted (AVT-1 &2 E-TP) – Zone II
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	5
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	On the basis of soil type and recommended agronomic practices at the location. Entire P and K as basal plus N 25% basal, 50% N 20 days after planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	15 sq m
10	Spacing:	20 cm between rows; 10 cm between plants
11	No. of entries:	24
12	Check varieties:	National:CO 51: Zonal:PR124 (Northern);, Narendra 97 (Eastern), Luit (North Eastern); Sahbagidhan (Central & Western): MTU 1153 (Southern); Hybrid: US 314 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Gap fill one week after planting. • Weeding as and when needed. • Control the pest and disease incidence
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering • Plant height (cm) • No. of productive tillers/ sq.m. • Grain yield kg/plot (net plot size basis) • Rainfall data: Number of rainy days, • Rainfall during the crop growth, • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.33: Layout plan of entries in Advance Variety Trial 2- Early Transplanted
(Zone II) (AVT 1&2 ETP), Kharif 2024**

Replication 1 Plot No./Entry No		Replication 2 Plot No./Entry No		Replication 3 Plot No./Entry No	
101	3301	201	3335	301	3323
102	3302	202	3301	302	3335
103	3303	203	3337	303	3325
104	3304	204	3347	304	3329
105	3305	205	3302	305	3301
106	3307	206	3303	306	3337
107	3309	207	3304	307	3347
108	3312	208	3305	308	3302
109	3313	209	3307	309	3303
110	3315	210	3309	310	3304
111	3316	211	3312	311	3305
112	3317	212	3313	312	3307
113	3318	213	3315	313	3309
114	3319	214	3316	314	3312
115	3320	215	3317	315	3313
116	3321	216	3318	316	3315
117	3322	217	3319	317	3316
118	3323	218	3320	318	3317
119	3325	219	3321	319	3318
120	3329	220	3322	320	3319
121	3330	221	3323	321	3320
122	3335	222	3325	322	3330
123	3337	223	3329	323	3322
124	3347	224	3330	324	3321

ZONE III

ICAR-INDIAN INSTITUTE OF RICE RESEARCH
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Kharif 2024

1.	Trial No.	33
2	Name of the trial:	Advance Variety Trial 2– Early –Transplanted (AVT-1 &2 E-TP) – Zone III
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	13
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	On the basis of soil type and recommended agronomic practices at the location. Entire P and K as basal plus N 25% basal, 50% N 20 days after planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	15 sq m
10	Spacing:	20 cm between rows; 10 cm between plants
11	No. of entries:	27
12	Check varieties:	National:CO 51: Zonal:PR124(Northern);, Narendra 97 (Eastern), Luit(North Eastern); Sahbagidhan (Central & Western): MTU 1153 (Southern); Hybrid: US 314 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Gap fill one week after planting. • Weeding as and when needed. • Control the pest and disease incidence
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering • Plant height (cm) • No. of productive tillers/ sq.m. • Grain yield kg/plot (net plot size basis) • Rainfall data: Number of rainy days, • Rainfall during the crop growth, • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.33: Layout plan of entries in Advance Variety Trial 2- Early Transplanted
(Zone III) (AVT1&2 ETP), Kharif 2024**

Replication 1 Plot No./Entry No.		Replication 2 Plot No./Entry No.		Replication 3 Plot No./Entry No.	
101	3304	201	3333	301	3336
102	3305	202	3334	302	3337
103	3306	203	3335	303	3347
104	3308	204	3336	304	3304
105	3309	205	3337	305	3318
106	3310	206	3347	306	3319
107	3311	207	3317	307	3321
108	3314	208	3319	308	3335
109	3315	209	3321	309	3314
110	3316	210	3323	310	3315
111	3317	211	3325	311	3316
112	3318	212	3326	312	3317
113	3319	213	3327	313	3305
114	3321	214	3328	314	3306
115	3323	215	3329	315	3308
116	3325	216	3310	316	3309
117	3326	217	3330	317	3310
118	3327	218	3315	318	3311
119	3328	219	3311	319	3323
120	3329	220	3315	320	3325
121	3330	221	3316	321	3326
122	3333	222	3318	322	3327
123	3334	223	3304	323	3328
124	3335	224	3305	324	3329
125	3336	225	3306	325	3330
126	3337	226	3308	326	3333
127	3347	227	3309	327	3334

Zone IV

**ICAR-INDIAN INSTITUTE OF RICE RESEARCH
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Kharif 2024**

1.	Trial No.	33
2	Name of the trial:	Advance Variety Trial 2– Early –Transplanted (AVT-1 &2 E-TP) – Zone IV
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	3
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	On the basis of soil type and recommended agronomic practices at the location. Entire P and K as basal plus N 25% basal, 50% N 20 days after planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	15 sq m
10	Spacing:	20 cm between rows; 10 cm between plants
11	No. of entries:	44
12	Check varieties:	National:CO 51: Zonal:PR124(Northern);, Narendra 97 (Eastern), Luit(North Eastern); Sahbagidhan (Central & Western); MTU 1153 (Southern); Hybrid: US 314 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Gap fill one week after planting. • Weeding as and when needed. • Control the pest and disease incidence
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering • Plant height (cm) • No. of productive tillers/ sq.m. • Grain yield kg/plot (net plot size basis) • Rainfall data: Number of rainy days, • Rainfall during the crop growth, • Maximum and minimum temperature.
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

**Trial No.33: Layout plan of entries in Advance Variety Trial 2- Early Transplanted
(Zone IV) (AVT 1 & 2 ETP), Kharif 2024**

Replication 1 Plot No./Entry No		Replication 2 Plot No./Entry No .		Replication 3 Plot No./Entry No .	
101	3301	201	3304	301	3337
102	3302	202	3341	302	3335
103	3303	203	3342	303	3301
104	3304	204	3343	304	3338
105	3305	205	3302	305	3339
106	3306	206	3303	306	3340
107	3308	207	3301	307	3341
108	3309	208	3305	308	3342
109	3310	209	3317	309	3343
110	3311	210	3318	310	3302
111	3315	211	3319	311	3303
112	3317	212	3321	312	3304
113	3318	213	3323	313	3305
114	3319	214	3325	314	3317
115	3321	215	3329	315	3318
116	3323	216	3330	316	3319
117	3325	217	3335	317	3321
118	3329	218	3337	318	3323
119	3330	219	3338	319	3325
120	3335	220	3339	320	3329
121	3337	221	3340	321	3330
122	3338	222	3344	322	3345
123	3339	223	3345	323	3344
124	3340	224	3346	324	3347
125	3341	225	3347	325	3346
126	3342	226	3306	326	3311
127	3343	227	3308	327	3315
128	3344	228	3309	328	3306
129	3345	229	3310	329	3308
130	3346	230	3311	330	3348
131	3347	231	3348	331	3310
132	3348	232	3315	332	3309
133	3349	233	3352	333	3356
134	3350	234	3359	334	3355
135	3351	235	3355	335	3350
136	3352	236	3356	336	3351
137	3353	237	3351	337	3352
138	3354	238	3349	338	3353
139	3355	239	3353	339	3354
140	3356	240	3350	340	3307
141	3357	241	3354	341	3358
142	3358	242	3357	342	3359
143	3359	243	3307	343	3357
144	3307	244	3358	344	3349

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1.	Trial No.	33
2	Name of the trial:	Advance Variety Trial 2– Early –Transplanted (AVT-1 &2 E-TP) – Zone V
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	6
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	On the basis of soil type and recommended agronomic practices at the location. Entire P and K as basal plus N 25% basal, 50% N 20 days after planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	15 sq m
10	Spacing:	20 cm between rows; 10 cm between plants
11	No. of entries:	18
12	Check varieties:	National:CO 51: Zonal:PR124(Northern);, Narendra 97 (Eastern), Luit(North Eastern); Sahbagidhan (Central & Western): MTU 1153 (Southern); Hybrid: US 314 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Gap fill one week after planting. • Weeding as and when needed. • Control the pest and disease incidence
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering • Plant height (cm) • No. of productive tillers/ sq.m. • Grain yield kg/plot (net plot size basis) • Rainfall data: Number of rainy days, • Rainfall during the crop growth, • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.33: Layout plan of entries in Advance Variety Trial 2- Early Transplanted
(Zone V) (AVT 1&2 ETP), Kharif 2024**

Replication 1 Plot No./Entry No		Replication 1 Plot No./Entry No		Replication 1 Plot No./Entry No	
101	3304	201	3337	301	3347
102	3305	202	3339	302	3318
103	3306	203	3305	303	3319
104	3309	204	3306	304	3321
105	3310	205	3347	305	3323
106	3311	206	3310	306	3305
107	3315	207	3311	307	3306
108	3317	208	3315	308	3309
109	3318	209	3317	309	3325
110	3319	210	3318	310	3329
111	3321	211	3319	311	3330
112	3323	212	3321	312	3335
113	3325	213	3323	313	3304
114	3329	214	3325	314	3310
115	3330	215	3329	315	3311
116	3335	216	3330	316	3315
117	3337	217	3335	317	3317
118	3347	218	3304	318	3337

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1.	Trial No.	33
2	Name of the trial:	Advance Variety Trial 2– Early –Transplanted (AVT-1 &2 E-TP) – Zone VI
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	6
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	On the basis of soil type and recommended agronomic practices at the location. Entire P and K as basal plus N 25% basal, 50% N 20 days after planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	15 sq m
10	Spacing:	20 cm between rows; 10 cm between plants
11	No. of entries:	21
12	Check varieties:	National:CO 51: Zonal:PR124(Northern):, Narendra 97 (Eastern), Luit(North Eastern); Sahbagidhan (Central & Western): MTU 1153 (Southern); Hybrid: US 314 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Gap fill one week after planting. • Weeding as and when needed. • Control the pest and disease incidence
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering • Plant height (cm) • No. of productive tillers/ sq.m. • Grain yield kg/plot (net plot size basis) • Rainfall data: Number of rainy days, • Rainfall during the crop growth, • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.33: Layout plan of entries in Advance Variety Trial 2- Early Transplanted
(Zone VI) (AVT 1&2 ETP), Kharif 2024**

Replication 1 Plot No./Entry No.		Replication 2 Plot No./Entry No		Replication 3 Plot No./Entry No.	
101	3302	201	3315	301	3315
102	3304	202	3302	302	3302
103	3306	203	3317	303	3332
104	3315	204	3318	304	3335
105	3317	205	3319	305	3337
106	3318	206	3304	306	3329
107	3319	207	3332	307	3330
108	3321	208	3335	308	3319
109	3322	209	3337	309	3304
110	3323	210	3347	310	3306
111	3324	211	3328	311	3321
112	3325	212	3329	312	3322
113	3327	213	3330	313	3323
114	3328	214	3321	314	3324
115	3329	215	3322	315	3347
116	3330	216	3306	316	3331
117	3331	217	3323	317	3327
118	3332	218	3324	318	3317
119	3335	219	3325	319	3328
120	3337	220	3327	320	3318
121	3347	221	3331	321	3325

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1.	Trial No.	33
2	Name of the trial:	Advance Variety Trial 2– Early –Transplanted (AVT-1 &2 E-TP) – Zone VII
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	15+1
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	On the basis of soil type and recommended agronomic practices at the location. Entire P and K as basal plus N 25% basal, 50% N 20 days after planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	15 sq m
10	Spacing:	20 cm between rows; 10 cm between plants
11	No. of entries:	17
12	Check varieties:	National:CO 51: Zonal:PR124(Northern);, Narendra 97 (Eastern), Luit(North Eastern); Sahbagidhan (Central & Western); MTU 1153 (Southern); Hybrid: US 314 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Gap fill one week after planting. • Weeding as and when needed. • Control the pest and disease incidence
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering • Plant height (cm) • No. of productive tillers/ sq.m. • Grain yield kg/plot (net plot size basis) • Rainfall data: Number of rainy days, • Rainfall during the crop growth, • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.33: Layout plan of entries in Advance Variety Trial 2- Early Transplanted
(Zone VII) (AVT 1&2 ETP), Kharif 2024**

Replication 1 Plot No./Entry No.		Replication 2 Plot No./Entry No		Replication 3 Plot No./Entry No	
101	3301	201	3303	301	3310
102	3303	202	3315	302	3321
103	3304	203	3317	303	3325
104	3309	204	3318	304	3323
105	3310	205	3319	305	3315
106	3315	206	3301	306	3317
107	3317	207	3330	307	3318
108	3318	208	3335	308	3319
109	3319	209	3337	309	3301
110	3321	210	3347	310	3330
111	3323	211	3304	311	3335
112	3325	212	3309	312	3329
113	3329	213	3310	313	3303
114	3330	214	3321	314	3337
115	3335	215	3323	315	3347
116	3337	216	3325	316	3304
117	3347	217	3329	317	3309

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1.	Trial No.	34
2	Name of the trial:	Initial Variety Trial – Early –Transplanted (IVT- E-TP)
3	Objective:	To study the comparative performance of early elite cultures in transplanted irrigated conditions
4	Locations:	49+Prayagraj
5	Layout:	Simple Lattice Design
6	Replications:	2
7	Fertilizers:	<ul style="list-style-type: none"> On the basis of soil type and recommended agronomic practices at the location. Entire P, K and 25% N as basal, 50% N after 25 days planting and 25% at reproductive stage.
8	Plant protection:	Need-based
9	Plot size:	10 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows; 15 cm between plants
11	No. of entries:	64
12	Check varieties:	National: CO-51; Zonal: PR 124 (Northern), Narendra 97 (Eastern), Luit (North Eastern), Sahbhagidhan (Central & Western), MTU 1153 (Southern) and Local Check.
13	General instructions:	<ul style="list-style-type: none"> Sow the seed in seedbed as thin as possible Planting of 25 days old 2-3 seedling/hill Transplant seedlings very shallow 1-2 seedlings / hill. Gap fill within a week of planting Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> Days to 50% flowering (DFF) Plant height (cm) Panicles per sq m (No.) Number of fertile & sterile spikelets / Panicle (Mean of 5 panicles each entry) Spikelet Fertility % (SPF) Purity score: (UNI) 1 = >95% pure 2 = 80-95% pure 3 = < 80% pure Number of completely sterile plants, if any Grain yield (kg/plot) based on net plot size to be reported Observations on incidence of diseases/pests Grain type Notes on lodging Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
When the mean yield of the experiment is below 4t/ha, kindly offer an explanation for the low yield		

**Trial No.34: Layout plan of entries in Initial Variety Trial - Early Transplanted
(IVT-E TP), Kharif 2024**

REPLICATION-I

101/3417	109/3459	117/3435	125/3406	133/3412	141/3455	149/3430	157/3409
102/3422	110/3452	118/3454	126/3447	134/3445	142/3410	150/3405	158/3427
103/3433	111/3413	119/3414	127/3431	135/3425	143/3411	151/3439	159/3451
104/3416	112/3419	120/3437	128/3426	136/3415	144/3449	152/3462	160/3440
105/3407	113/3432	121/3460	129/3448	137/3404	145/3444	153/3428	161/3403
106/3463	114/3443	122/3424	130/3458	138/3446	146/3457	154/3401	162/3434
107/3450	115/3441	123/3420	131/3402	139/3436	147/3421	155/3453	163/3423
108/3442	116/3456	124/3408	132/3464 (LC)	140/3429	148/3461	156/3418	164/3438

REPLICATION-II

201/3403	209/3438	217/3423	225/3435	233/3409	241/3451	249/3427	257/3440
202/3460	210/3408	218/3420	226/3424	234/3434	242/3414	250/3454	258/3437
203/3428	211/3418	219/3453	227/3401	235/3430	243/3439	251/3405	259/3462
204/3432	212/3456	220/3441	228/3443	236/3459	244/3413	252/3452	260/3419
205/3444	213/3461	221/3421	229/3457	237/3455	245/3411	253/3410	261/3449
206/3448	242/3464 (LC)	222/3402	230/3458	238/3406	246/3431	254/3447	262/3426
207/3407	215/3442	223/3450	231/3463	239/3417	247/3433	255/3422	263/3416
208/3404	216/3429	224/3436	232/3446	240/3412	248/3425	256/3445	264/3415

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1.	Trial No.	35
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Mid Early (AVT 2 & 1 IME)- Zone II
3	Objective:	To study the comparative performance of mid-early duration elite cultures and hybrids in irrigated areas
4	Locations:	6
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre.
8	Plant protection:	Need-based
9	Plot size:	15 sq.m (This should be strictly followed
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	39 (For Zone-II only 13 entries)
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat (Eastern & North-Eastern), MTU 1010(Central & Southern) ,Karjat 7(Western)); Hybrid : US 312 and Local check
13	General Instruction	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 panicles each entry) • Spikelet Fertility % (SPF) • Purity score: (UNI) • = >95% pure • =80-95% pure • = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.35: Layout plan of entries in Advance Variety Trial 2 – Irrigated Mid Early
(AVT 2 & 1 IME) ZONE - II**

Replication 1 Plot No./Entry No.		Replication 2 Plot No./Entry No.		Replication 3 Plot No./Entry No.	
101	3502	201	3535	301	3529
102	3511	202	3537	302	3518
103	3516	203	3502	303	3520
104	3517	204	3511	304	3535
105	3518	205	3516	305	3537
106	3520	206	3517	306	3502
107	3521	207	3518	307	3511
108	3523	208	3520	308	3516
109	3524	209	3521	309	3521
110	3527	210	3523	310	3527
111	3529	211	3524	311	3523
112	3535	212	3527	312	3524
113	3537	213	3529	313	3517

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1.	Trial No.	35
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Mid Early (AVT 2 & 1-IME)-Zone III
3	Objective:	To study the comparative performance of mid-early duration elite cultures and hybrids in irrigated areas
4	Locations:	12
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre.
8	Plant protection:	Need-based
9	Plot size:	15 sq.m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	39 (For Zone-III only 31 entries)
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat(Eastern&North-Eastern),MTU 1010(Central & Southern) ,Karjat 7(Western)); Hybrid : US 312 and Local check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle(Mean of 5 panicles each entry) • Spikelet Fertility % (SPF) • Purity score: (UNI) <ul style="list-style-type: none"> ➤ = >95% pure ➤ = 80-95% pure ➤ = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.35: Layout plan of entries in Advance Variety Trial 2 – Irrigated Mid Early
(AVT 2 & 1 IME) ZONE- III**

Replication 1 Plot No./Entry No.		Replication 2 Plot No./Entry No.		Replication 3 Plot No./Entry No.	
101	3501	201	3530	301	3510
102	3502	202	3515	302	3503
103	3503	203	3505	303	3501
104	3505	204	3528	304	3530
105	3506	205	3537	305	3515
106	3507	206	3539	306	3505
107	3508	207	3513	307	3528
108	3509	208	3519	308	3539
109	3510	209	3522	309	3537
110	3513	210	3531	310	3525
111	3515	211	3521	311	3521
112	3516	212	3509	312	3531
113	3517	213	3517	313	3519
114	3518	214	3502	314	3509
115	3519	215	3529	315	3502
116	3520	216	3510	316	3527
117	3521	217	3503	317	3513
118	3522	218	3524	318	3520
119	3523	219	3520	319	3516
120	3524	220	3508	320	3522
121	3525	221	3518	321	3526
122	3526	222	3516	322	3523
123	3527	223	3506	323	3508
124	3528	224	3526	324	3518
125	3529	225	3525	325	3524
126	3530	226	3527	326	3506
127	3531	227	3523	327	3517
128	3533	228	3507	328	3533
129	3535	229	3533	329	3529
130	3537	230	3501	330	3535
131	3539	231	3535	331	3507

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1.	Trial No.	35
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Mid Early (AVT 2 & 1 IME)- Zone IV
3	Objective:	To study the comparative performance of mid-early duration elite cultures and hybrids in irrigated areas
4	Locations:	3
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre.
8	Plant protection:	Need-based
9	Plot size:	15 sq.m (This should be strictly followed
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	39 (For Zone-IV only 18 entries)
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat(Eastern&North-Eastern),MTU 1010(Central & Southern) ,Karjat 7(Western)); Hybrid : US 312 and Local check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle(Mean of 5 panicles each entry) • Spikelet Fertility % (SPF) • Purity score: (UNI) <ul style="list-style-type: none"> ➤ = >95% pure ➤ = 80-95% pure ➤ = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.35: Layout plan of entries in Advance Variety Trial 2 – Irrigated Mid Early
(AVT 2 & 1-IME) ZONE- IV**

Replication 1 Plot No./Entry No.		Replication 2 Plot No./Entry No.		Replication 3 Plot No./Entry No.	
101	3501	201	3506	301	3532
102	3506	202	3537	302	3523
103	3510	203	3536	303	3520
104	3512	204	3538	304	3524
105	3516	205	3501	305	3518
106	3517	206	3517	306	3527
107	3518	207	3535	307	3517
108	3520	208	3512	308	3529
109	3521	209	3532	309	3516
110	3523	210	3510	310	3521
111	3524	211	3516	311	3512
112	3527	212	3529	312	3538
113	3529	213	3518	313	3510
114	3532	214	3527	314	3535
115	3535	215	3520	315	3506
116	3536	216	3524	316	3536
117	3537	217	3521	317	3537
118	3538	218	3523	318	3501

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1.	Trial No.	35
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Mid Early (AVT 2 & 1-IME)- Zone V
3	Objective:	To study the comparative performance of mid-early duration elite cultures and hybrids in irrigated areas
4	Locations:	8
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre.
8	Plant protection:	Need-based
9	Plot size:	15 sq.m (This should be strictly followed
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	39 (For Zone-V only 14 entries)
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat(Eastern&North-Eastern),MTU 1010(Central & Southern) ,Karjat 7(Western)); Hybrid : US 312 and Local check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle(Mean of 5 panicles each entry) • Spikelet Fertility % (SPF) • Purity score: (UNI) <ul style="list-style-type: none"> ➤ = >95% pure ➤ = 80-95% pure ➤ = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.35: Layout plan of entries in Advance Variety Trial 2 – Irrigated Mid Early
(AVT 2 & 1 IME) ZONE-V**

Replication 1		Replication 2		Replication 3	
Plot No./ Entry No.		Plot No./ Entry No.		Plot No./ Entry No.	
101	3505	201	3517	301	3523
102	3510	202	3537	302	3520
103	3514	203	3516	303	3537
104	3516	204	3535	304	3518
105	3517	205	3514	305	3521
106	3518	206	3529	306	3517
107	3520	207	3510	307	3524
108	3521	208	3505	308	3516
109	3523	209	3527	309	3535
110	3524	210	3518	310	3505
111	3527	211	3524	311	3527
112	3529	212	3520	312	3510
113	3535	213	3521	313	3529
114	3537	214	3523	314	3514

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1.	Trial No.	35
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Mid Early (AVT 2 & 1 IME) Zone VI
3	Objective:	To study the comparative performance of mid-early duration elite cultures and hybrids in irrigated areas
4	Locations:	6
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre.
8	Plant protection:	Need-based
9	Plot size:	15 sq.m (This should be strictly followed
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	39(For Zone-VI only 12 entries)
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat (Eastern & North-Eastern), MTU 1010 (Central & Southern) ,Karjat 7 (Western)); Hybrid : US 312 and Local check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle(Mean of 5 panicles each entry) • Spikelet Fertility % (SPF) • Purity score: (UNI) <ul style="list-style-type: none"> ➤ = >95% pure ➤ = 80-95% pure ➤ = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.35: Layout plan of entries in Advance Variety Trial 2 – Irrigated Mid Early
(AVT 2 & 1 IME) ZONE-VI**

Replication 1 Plot No./ Entry No.		Replication 2 Plot No./ Entry No.		Replication 3 Plot No./ Entry No.	
101	3501	201	3521	301	3523
102	3516	202	3520	302	3524
103	3517	203	3523	303	3520
104	3518	204	3518	304	3521
105	3520	205	3524	305	3527
106	3521	206	3501	306	3518
107	3523	207	3535	307	3529
108	3524	208	3527	308	3517
109	3527	209	3516	309	3535
110	3528	210	3529	310	3516
111	3535	211	3517	311	3537
112	3537	212	3537	312	3501

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1.	Trial No.	35
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Mid Early (AVT 2 & 1 IME)- Zone VII
3	Objective:	To study the comparative performance of mid-early duration elite cultures and hybrids in irrigated areas
4	Locations:	17
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre.
8	Plant protection:	Need-based
9	Plot size:	15 sq.m (This should be strictly followed
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	39 (For Zone-VII only 18 entries)
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat (Eastern & North-Eastern), MTU 1010(Central & Southern), Karjat 7 (Western)); Hybrid : US 312 and Local check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle(Mean of 5 panicles each entry) • Spikelet Fertility % (SPF) • Purity score: (UNI) <ul style="list-style-type: none"> ➤ = >95% pure ➤ = 80-95% pure ➤ = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No.35: Layout plan of entries in Advance Variety Trial 2 – Irrigated Mid Early
(AVT 2 & 1-IME) ZONE- VII**

Replication 1 Plot No./ Entry No.		Replication 2 Plot No./ Entry No.		Replication 3 Plot No./ Entry No.	
101	3502	201	3510	301	3516
102	3503	202	3520	302	3537
103	3504	203	3510	303	3517
104	3505	204	3521	304	3535
105	3506	205	3517	305	3518
106	3510	206	3523	306	3520
107	3516	207	3518	307	3534
108	3517	208	3524	308	3502
109	3518	209	3502	309	3529
110	3520	210	3527	310	3503
111	3521	211	3503	311	3527
112	3523	212	3529	312	3504
113	3524	213	3504	313	3524
114	3527	214	3534	314	3505
115	3529	215	3505	315	3523
116	3534	216	3535	316	3506
117	3535	217	3506	317	3521
118	3537	218	3537	318	3510

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1.	Trial No.	36
2	Name of the trial:	Initial Variety Trial – Irrigated Mid Early (IVT-IME)
3	Objective:	To study the comparative performance of mid-early duration elite cultures in irrigated areas
4	Locations:	49
5	Layout:	Simple Lattice design
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	10 sq.m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	64
12	Check varieties:	National : Gontra Bidhan-3; Zonal : PR 113 (Northern), Lalat (Eastern and North Eastern), MTU 1010 (Central and Southern); Karjat-7 (Western) and Localcheck
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No. 36 : Layout plan of entries in Initial Variety
Trial - Irrigated Mid Early,(IVT- IME), Kharif 2024**

REPLICATION-I

101/3617	109/3659	117/3634	125/3606	133/3612	141/3655	149/3630	157/3609
102/3622	110/3652	118/3654	126/3647	134/3645	142/3610	150/3605	158/3627
103/3633	111/3613	119/3614	127/3631	135/3625	143/3611	151/3639	159/3651
104/3616	112/3619	120/3637	128/3626	136/3615	144/3649	152/3662	160/3640
105/3607	113/3632	121/3660	129/3648	137/3604	145/3644	153/3628	161/3603
106/3663	114/3643	122/3624	130/3658	138/3646	146/3657	154/3601	162/3635
107/3650	115/3641	123/3620	131/3602	139/3638	147/3621	155/3653	163/3623
108/3642	116/3656	124/3608	132/3664 (LC)	140/3629	148/3661	156/3618	164/3636

REPLICATION-II

201/3603	209/3638	217/3623	225/3635	233/3609	241/3651	249/3627	257/3640
202/3660	210/3608	218/3620	226/3624	234/3634	242/3614	250/3654	258/3637
203/3628	211/3618	219/3653	227/3601	235/3630	243/3639	251/3605	259/3662
204/3632	212/3656	220/3641	228/3643	236/3659	244/3613	252/3652	260/3619
205/3644	213/3661	221/3621	229/3657	237/3655	245/3611	253/3610	261/3649
206/3648	242/3664 (LC)	222/3602	230/3658	238/3606	246/3631	254/3647	262/3626
207/3607	215/3642	223/3650	231/3663	239/3617	247/3633	255/3622	263/3616
208/3604	216/3629	224/3636	232/3646	240/3612	248/3625	256/3645	264/3615

ZONE- II

ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR, HYDERABAD – 500 030, TELANGANA, KHARIF 2024

1.	Trial No.	37
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Medium (AVT 2 & 1-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures and hybrids in irrigated areas
4	Locations:	48 (For Zone-II—4 Locations)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	42 (For II—24 entries)
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri (Central), Akshaya Dhan (Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.

• When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield

**Trial No.37: Layout plan of entries in Advance Variety Trial 2- Irrigated Medium
(AVT 2&1 - IM), Kharif 2024 (Zone-II)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/3701	201/3740	301/3737
102/3703	202/3741	302/3738
103/3704	203/3701	303/3739
104/3712	204/3703	304/3740
105/3713	205/3704	305/3741
106/3714	206/3712	306/3701
107/3717	207/3713	307/3703
108/3718	208/3714	308/3704
109/3719	209/3717	309/3712
110/3720	210/3718	310/3713
111/3722	211/3719	311/3714
112/3726	212/3720	312/3717
113/3727	213/3722	313/3718
114/3729	214/3726	314/3719
115/3730	215/3727	315/3720
116/3731	216/3729	316/3722
117/3733	217/3730	317/3726
118/3734	218/3731	318/3727
119/3736	219/3733	319/3729
120/3737	220/3734	320/3730
121/3738	221/3736	321/3731
122/3739	222/3737	322/3733
123/3740	223/3738	323/3734
124/3741	224/3739	324/3736

Note: Total No. of entries in the trial are 42; For Zone-II all 24 entries are included.

ZONE- III

ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR, HYDERABAD – 500 030, TELANGANA, KHARIF 2024

1.	Trial No.	37
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Medium (AVT 2 & 1-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures and hybrids in irrigated areas
4	Locations:	48 (For Zone-III—12 Locations)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	42 (For III—29 entries)
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri(Central), Akshaya Dhan(Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.37: Layout plan of entries in Advance Variety Trial 2- Irrigated Medium
(AVT 2&1 - IM), Kharif 2024 (Zone-III)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/3702	201/3739	301/3736
102/3703	202/3741	302/3738
103/3704	203/3742	303/3739
104/3705	204/3702	304/3741
105/3706	205/3703	305/3742
106/3707	206/3704	306/3702
107/3708	207/3705	307/3703
108/3709	208/3706	308/3704
109/3710	209/3707	309/3705
110/3712	210/3708	310/3706
111/3713	211/3709	311/3707
112/3717	212/3710	312/3708
113/3719	213/3712	313/3709
114/3720	214/3713	314/3710
115/3722	215/3717	315/3712
116/3723	216/3719	316/3713
117/3725	217/3720	317/3717
118/3726	218/3722	318/3719
119/3727	219/3723	319/3720
120/3729	220/3725	320/3722
121/3730	221/3726	321/3723
122/3731	222/3727	322/3725
123/3732	223/3729	323/3726
124/3734	224/3730	324/3727
125/3736	225/3731	325/3729
126/3738	226/3732	326/3730
127/3739	227/3734	327/3731
128/3741	228/3736	328/3732
129/3742	229/3738	329/3734

Note: Total No. of entries in the trial are 42; For Zone-III all 29 entries are included.

**ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR,
HYDERABAD – 500 030, TELANGANA, KHARIF 2024**

1.	Trial No.	37
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Medium (AVT 2 & 1-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures and hybrids in irrigated areas
4	Locations:	48 (For Zone-IV—4 Locations)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	42 (For IV—16 entries)
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri(Central), Akshaya Dhan(Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.37: Layout plan of entries in Advance Variety Trial 2- Irrigated Medium
(AVT 2&1 - IM), Kharif 2024 (Zone-IV)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/3704	201/3741	301/3734
102/3712	202/3704	302/3738
103/3713	203/3712	303/3739
104/3717	204/3713	304/3741
105/3719	205/3717	305/3704
106/3720	206/3719	306/3712
107/3722	207/3720	307/3713
108/3726	208/3722	308/3717
109/3727	209/3726	309/3719
110/3729	210/3727	310/3720
111/3730	211/3729	311/3722
112/3731	212/3730	312/3726
113/3734	213/3731	313/3727
114/3738	214/3734	314/3729
115/3739	215/3738	315/3730
116/3741	216/3739	316/3731

Note: Total No. of entries in the trial are 42; For Zone-IV all 16 entries are included.

**ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR,
HYDERABAD – 500 030, TELANGANA, KHARIF 2024**

1.	Trial No.	37
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Medium (AVT 2 & 1-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures and hybrids in irrigated areas
4	Locations:	48 (For Zone-V—7 Locations)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	42 (For V— 17 entries)
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri(Central), Akshaya Dhan(Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.

• When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield

**Trial No. 37: Layout plan of entries in Advance Variety Trial 2- Irrigated Medium
(AVT 2&1 - IM), Kharif 2024 (Zone-V)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/3704	201/3739	301/3731
102/3711	202/3741	302/3734
103/3712	203/3704	303/3738
104/3713	204/3711	304/3739
105/3717	205/3712	305/3741
106/3719	206/3713	306/3704
107/3720	207/3717	307/3711
108/3722	208/3719	308/3712
109/3726	209/3720	309/3713
110/3727	210/3722	310/3717
111/3729	211/3726	311/3719
112/3730	212/3727	312/3720
113/3731	213/3729	313/3722
114/3734	214/3730	314/3726
115/3738	215/3731	315/3727
116/3739	216/3734	316/3729
117/3741	217/3738	317/3730

Note: Total No. of entries in the trial are 42; For Zone-V all 17 entries are included.

ZONE- VI

ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR,
HYDERABAD – 500 030, TELANGANA, KHARIF 2024

1.	Trial No.	37
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Medium (AVT 2 & 1-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures and hybrids in irrigated areas
4	Locations:	48 (For Zone-VI—4 Locations)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	42 (For VI—22 entries)
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri(Central), Akshaya Dhan(Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.39: Layout plan of entries in Advance Variety Trial 2 Irrigated Medium
(AVT 2&1 - IM), Kharif 2024 (Zone-VI)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/3704	201/3738	301/3734
102/3712	202/3739	302/3735
103/3713	203/3741	303/3738
104/3715	204/3704	304/3739
105/3716	205/3712	305/3741
106/3717	206/3713	306/3704
107/3719	207/3715	307/3712
108/3720	208/3716	308/3713
109/3721	209/3717	309/3715
110/3722	210/3719	310/3716
111/3724	211/3720	311/3717
112/3726	212/3721	312/3719
113/3727	213/3722	313/3720
114/3728	214/3724	314/3721
115/3729	215/3726	315/3722
116/3730	216/3727	316/3724
117/3731	217/3728	317/3726
118/3734	218/3729	318/3727
119/3735	219/3730	319/3728
120/3738	220/3731	320/3729
121/3739	221/3734	321/3730
122/3741	222/3735	322/3731

Note: Total No. of entries in the trial are 42; For Zone-VI all 22 entries are included.

ZONE- VII

**ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR,
HYDERABAD – 500 030, TELANGANA
KHARIF 2024**

1.	Trial No.	37
2	Name of the trial:	Advance Variety Trial 2 – Irrigated Medium (AVT 2 & 1-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures and hybrids in irrigated areas
4	Locations:	48 (For Zone-VII—17 Locations)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	42 (For VII—19 entries)
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri(Central), Akshaya Dhan(Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.39: Layout plan of entries in Advance Variety Trial 2- Irrigated Medium
(AVT 2&1 - IM), Kharif 2024 (Zone-VII)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/3701	201/3727	301/3730
102/3704	202/3728	302/3724
103/3708	203/3729	303/3726
104/3709	204/3738	304/3727
105/3712	205/3739	305/3728
106/3713	206/3741	306/3729
107/3717	207/3704	307/3738
108/3719	208/3712	308/3739
109/3720	209/3713	309/3741
110/3722	210/3715	310/3704
111/3726	211/3716	311/3712
112/3727	212/3717	312/3713
113/3729	213/3719	313/3715
114/3730	214/3720	314/3716
115/3731	215/3721	315/3717
116/3734	216/3722	316/3719
117/3738	217/3724	317/3720
118/3739	218/3726	318/3721
119/3741	219/3730	319/3722

Note: Total No. of entries in the trial are 42; For Zone-VII all 19 entries are included.

**ICAR-INDIAN INSTITUTE OF RICE RESEARCH RAJENDRANAGAR,
HYDERABAD – 500 030, TELANGANA
KHARIF 2024**

1.	Trial No.	38
2	Name of the trial:	Initial Variety Trial – Irrigated Medium (IVT-IM)
3	Objective:	To study the comparative performance of medium duration elite cultures
4	Locations:	48+Prayagraj
5	Layout:	Randomized Block Design (RBD)
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	64
12	Check varieties:	National: NDR 359; Zonal: PR 121(Northern), CR Dhan 300 (Eastern & North Eastern, Karma Mahsuri(Central), Akshaya Dhan(Western) Jaya (Southern); Hybrid: HRI 174 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.38: Layout plan of entries in Initial Variety
Trial - Irrigated Medium (IVT - IM), Kharif 2024.**

REPLICATION-I

101/3817	109/3859	117/3834	125/3806	133/3812	141/3855	149/3830	157/3809
102/3822	110/3852	118/3854	126/3847	134/3845	142/3810	150/3805	158/3827
103/3833	111/3813	119/3814	127/3831	135/3825	143/3811	151/3839	159/3851
104/3816	112/3819	120/3837	128/3826	136/3815	144/3849	152/3862	160/3840
105/3807	113/3832	121/3860	129/3848	137/3804	145/3844	153/3828	161/3803
106/3863	114/3843	122/3824	130/3858	138/3846	146/3857	154/3801	162/3835
107/3850	115/3838	123/3820	131/3802	139/3836	147/3821	155/3853	163/3823
108/3842	116/3856	124/3808	132/3864 (LC)	140/3829	148/3861	156/3818	164/3841

REPLICATION-II

201/3803	209/3838	217/3823	225/3835	233/3809	241/3851	249/3827	257/3840
202/3860	210/3808	218/3820	226/3824	234/3834	242/3814	250/3854	258/3837
203/3828	211/3818	219/3853	227/3801	235/3830	243/3839	251/3805	259/3862
204/3832	212/3856	220/3841	228/3843	236/3859	244/3813	252/3852	260/3819
205/3844	213/3861	221/3821	229/3857	237/3855	245/3811	253/3810	261/3849
206/3848	242/3864 (LC)	222/3802	230/3858	238/3806	246/3831	254/3847	262/3826
207/3807	215/3842	223/3850	231/3863	239/3817	247/3833	255/3822	263/3816
208/3804	216/3829	224/3836	232/3846	240/3812	248/3825	256/3845	264/3815

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1.	Trial No.	39
2	Name of the trial:	Advance Variety Trial 2 & 1-Late (AVT2 & 1-L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48 , ZONE-II (3); ZONE-III (12); ZONE-IV (4); ZONE-V (7); ZONE-VI (6); ZONE-VII (16)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	17 , ZONE-II (7); ZONE-III (9); ZONE-IV (11); ZONE-V (7); ZONE-VI (8); ZONE-VII (11)
12	Check varieties:	Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern)-ZC
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.39: Layout plan of entries in Advance Variety Trial 2 – Late
(AVT 2-Late) Zone-II**

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/3903	201/3910	301/3906
102/3906	202/3911	302/3910
103/3908	203/3916	303/3903
104/3909	204/3906	304/3908
105/3910	205/3908	305/3911
106/3911	206/3909	306/3916
107/3916	207/3903	307/3909

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1.	Trial No.	39
2	Name of the trial:	Advance Variety Trial 2 & 1-Late (AVT2 & 1-L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48 , ZONE-II (3); ZONE-III (12); ZONE-IV (4); ZONE-V (7); ZONE-VI (6); ZONE-VII (16)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	17 , ZONE-II (7); ZONE-III (9); ZONE-IV (11); ZONE-V (7); ZONE-VI (8); ZONE-VII (11)
12	Check varieties:	Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern)-ZC
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No. 39: Layout plan of entries in Advance Variety Trial 2 – Late
(AVT 2-Late) Zone-III**

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/3903	201/3914	301/3909
102/3906	202/3916	302/3914
103/3908	203/3903	303/3916
104/3909	204/3906	304/3903
105/3910	205/3908	305/3906
106/3911	206/3909	306/3908
107/3912	207/3910	307/3911
108/3914	208/3911	308/3912
109/3916	209/3912	309/3910

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1.	Trial No.	39
2	Name of the trial:	Advance Variety Trial 2 & 1-Late (AVT2 & 1-L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48 , ZONE-II (3); ZONE-III (12); ZONE-IV (4); ZONE-V (7); ZONE-VI (6); ZONE-VII (16)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	17 , ZONE-II (7); ZONE-III (9); ZONE-IV (11); ZONE-V (7); ZONE-VI (8); ZONE-VII (11)
12	Check varieties:	Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern)-ZC
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.39: Layout plan of entries in Advance Variety Trial 2 – Late
(AVT 2-Late) Zone-IV**

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/3903	201/3909	301/3906
102/3904	202/3910	302/3908
103/3905	203/3911	303/3909
104/3906	204/3903	304/3910
105/3908	205/3904	305/3911
106/3909	206/3905	306/3903
107/3910	207/3915	307/3904
108/3911	208/3916	308/3905
109/3915	209/3917	309/3915
110/3916	210/3906	310/3916
111/3917	211/3908	311/3917

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1.	Trial No.	39
2	Name of the trial:	Advance Variety Trial 2 & 1-Late (AVT2 & 1-L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48 , ZONE-II (3); ZONE-III (12); ZONE-IV (4); ZONE-V (7); ZONE-VI (6); ZONE-VII (16)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	17 , ZONE-II (7); ZONE-III (9); ZONE-IV (11); ZONE-V (7); ZONE-VI (8); ZONE-VII (11)
12	Check varieties:	Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern)-ZC
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.39: Layout plan of entries in Advance Variety Trial 2 – Late
(AVT 2-Late) Zone-V**

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/3903	201/3909	301/3916
102/3906	202/3910	302/3909
103/3908	203/3911	303/3910
104/3909	204/3903	304/3908
105/3910	205/3906	305/3903
106/3911	206/3916	306/3906
107/3916	207/3908	307/3911

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1.	Trial No.	39
2	Name of the trial:	Advance Variety Trial 2 & 1-Late (AVT2 & 1-L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48 , ZONE-II (3); ZONE-III (12); ZONE-IV (4); ZONE-V (7); ZONE-VI (6); ZONE-VII (16)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	17 , ZONE-II (7); ZONE-III (9); ZONE-IV (11); ZONE-V (7); ZONE-VI (8); ZONE-VII (11)
12	Check varieties:	Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern)-ZC
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

Trial No.39: Layout plan of entries in Advance Variety Trial 2 – Late
(AVT 2-Late) Zone-VI

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/3903	201/3910	301/3908
102/3904	202/3911	302/3909
103/3906	203/3906	303/3916
104/3908	204/3903	304/3911
105/3909	205/3904	305/3906
106/3910	206/3908	306/3903
107/3911	207/3916	307/3904
108/3916	208/3909	308/3910

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1.	Trial No.	39
2	Name of the trial:	Advance Variety Trial 2 & 1-Late (AVT2 & 1-L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48 , ZONE-II (3); ZONE-III (12); ZONE-IV (4); ZONE-V (7); ZONE-VI (6); ZONE-VII (16)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing:	20 cm between rows, 15 cm between hills
11	No. of entries:	17 , ZONE-II (7); ZONE-III (9); ZONE-IV (11); ZONE-V (7); ZONE-VI (8); ZONE-VII (11)
12	Check varieties:	Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern)-ZC
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No.39: Layout plan of entries in Advance Variety Trial 2 – Late
(AVT 2-Late) Zone-VII**

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101/3901	201/3911	301/3909
102/3902	202/3901	302/3910
103/3903	203/3902	303/3911
104/3906	204/3903	304/3901
105/3907	205/3906	305/3902
106/3908	206/3913	306/3903
107/3909	207/3916	307/3906
108/3910	208/3907	308/3913
109/3911	209/3908	309/3916
110/3913	210/3909	310/3907
111/3916	211/3910	311/3908

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1.	Trial No.	40
2	Name of the trial:	Initial Variety Trial –Late (IVT – L)
3	Objective:	To evaluate comparative performance of late duration elite cultures in irrigated areas
4	Locations:	48
5	Layout:	Simple Lattice Design
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need- based
9	Plot size:	10 sq m (This should be strictly followed)
10	Spacing:	20 x 15 cm
11	No. of entries:	64
12	Check varieties:	National: Swarna; Zonal:Pusa 44 (Northern), NDR 8002 (Eastern & Central), Ranjeet (North Eastern), Salivahana (Western), Pushyami (Southern), Hybrid: CRHR 702, Hybrid Observational Check: MRP 5222 and Local Check
13	General instructions:	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow (1-2 seedlings / hill). • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) Plant height (cm) • Panicles per sq m (No.) • Number of fertile & sterile spikelets / Panicle (Mean of 5 Mean of 5 panicles each entry. • Purity score: (UNI) <ul style="list-style-type: none"> ✓ = >95% pure ✓ = 80-95% Pure ✓ = <80% Pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield 		

**Trial No. 40: Layout plan of entries in Initial Variety Trial –Late (IVT-L),
Kharif 2024**

REPLICATION-I

101/4017	109/4059	117/4034	125/4006	133/4012	141/4055	149/4030	157/4009
102/4022	110/4052	118/4054	126/4047	134/4045	142/4010	150/4005	158/4027
103/4033	111/4013	119/4014	127/4031	135/4025	140/4011	151/4039	159/4051
104/4016	112/4019	120/4037	128/4026	136/4015	144/4049	152/4062	160/4043
105/4007	113/4032	121/4060	129/4048	137/4004	145/4044	153/4028	161/4003
106/4063	114/4040	122/4024	130/4058	138/4046	146/4057	154/4001	162/4035
107/4050	115/4041	123/4020	131/4002	139/4036	147/4021	155/4053	163/4023
108/4042	116/4056	124/4008	132/4064 (LC)	140/4029	148/4061	156/4018	164/4038

REPLICATION-II

201/4003	209/4038	217/4023	225/4035	233/4009	241/4051	249/4027	257/4043
202/4060	210/4008	218/4020	226/4024	234/4034	242/4014	250/4054	258/4037
203/4028	211/4018	219/4053	227/4001	235/4030	240/4039	251/4005	259/4062
204/4032	212/4056	220/4041	228/4040	236/4059	244/4013	252/4052	260/4019
205/4044	213/4061	221/4021	229/4057	237/4055	245/4011	253/4010	261/4049
206/4048	214/4064 (LC)	222/4002	230/4058	238/4006	246/4031	254/4047	262/4026
207/4007	215/4042	223/4050	231/4063	239/4017	247/4033	255/4022	263/4016
208/4004	216/4029	224/4036	232/4046	240/4012	248/4025	256/4045	264/4015

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1	Trial No.	41
2	Name of the trial	Advance Variety Trial 2&1 – Aerobic (AVT 2& 1-Aerob)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	25 (03 for Zone - II)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (Direct seeded) (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	31(for Zone- II only 13 entries)
12	Check Varieties:	National: DRR Dhan 54, CR Dhan 201; Zonal: CRDhan202(Northern, Eastern, NorthEastern, Central); AAUD R-1(Western), MAS 946-1(Southern), Hybrid: PA 6129 and Local Check.
13	General Instructions	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 5-6days after sowing. • Apply bispyribacsodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not experience moisture stress at any stages of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 41 : Layout plan of entries in Advance Variety Trial 2&1-Aerobic
(AVT 2& 1-Aerob), Kharif 2024 (Zone – II)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4102	201/4127	301/4126
102/4110	202/4131	302/4128
103/4114	203/4102	303/4127
104/4116	204/4110	304/4124
105/4117	205/4114	305/4131
106/4118	206/4116	306/4102
107/4119	207/4117	307/4110
108/4120	208/4118	308/4114
109/4124	209/4119	309/4116
110/4126	210/4120	310/4117
111/4128	211/4124	311/4118
112/4127	212/4126	312/4119
113/4131	213/4128	313/4120

Note: Total No. of entries in the trial are 31; For Zone-II only 13 entries are included. Wherever missing numbers are found, those entries are not included for zone-II.

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1	Trial No.	41
2	Name of the trial	Advance Variety Trial 2&1 – Aerobic (AVT 2& 1-Aerob)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	25 (09 for Zone - III)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (Direct seeded) (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	31 (for Zone- III only 14 entries)
12	Check Varieties:	National: DRR Dhan 54, CR Dhan 201; Zonal: CRDhan202(Northern, Eastern, NorthEastern, Central); AAUD R-1(Western), MAS 946-1(Southern), Hybrid: PA 6129 and Local Check.
13	General Instructions	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 5-6days after sowing. • Apply bispyribacsodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not experience moisture stress at any stages of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 41 : Layout plan of entries in Advance Variety Trial 2&1-Aerobic
(AVT 2& 1-Aerob), Kharif 2024 (Zone – III)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4102	201/4128	301/4128
102/4110	202/4131	302/4130
103/4114	203/4102	303/4124
104/4115	204/4110	304/4131
105/4116	205/4114	305/4102
106/4117	206/4115	306/4110
107/4118	207/4116	307/4114
108/4119	208/4117	308/4115
109/4120	209/4118	309/4116
110/4131	210/4119	310/4117
111/4124	211/4120	311/4118
112/4126	212/4130	312/4119
113/4128	213/4124	313/4120
114/4130	214/4126	314/4126

Note: Total No. of entries in the trial are 31; For Zone-III only 14 entries are included. Wherever missing numbers are found, those entries are not included for zone-III.

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1	Trial No.	41
2	Name of the trial	Advance Variety Trial 2&1 – Aerobic (AVT 2& 1-Aerob)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	25 (3 for Zone - IV)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (Direct seeded) (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	31 (for Zone- IV only 21 entries)
12	Check Varieties:	National: DRR Dhan 54, CR Dhan 201; Zonal: CRDhan202(Northern, Eastern, NorthEastern, Central); AAUD R-1(Western), MAS 946-1(Southern), Hybrid: PA 6129 and Local Check.
13	General Instructions	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 5-6days after sowing. • Apply bispyribacsodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not experience moisture stress at any stages of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 41 : Layout plan of entries in Advance Variety Trial 2&1-Aerobic
(AVT 2& 1-Aerob), Kharif 2024 (Zone – IV)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4102	201/4131	301/4124
102/4103	202/4128	302/4126
103/4131	203/4107	303/4128
104/4105	204/4102	304/4131
105/4106	205/4103	305/4120
106/4107	206/4105	306/4107
107/4108	207/4106	307/4102
108/4109	208/4108	308/4103
109/4110	209/4109	309/4105
110/4111	210/4110	310/4106
111/4112	211/4111	311/4108
112/4113	212/4112	312/4109
113/4114	213/4113	313/4110
114/4116	214/4114	314/4111
115/4117	215/4116	315/4112
116/4118	216/4117	316/4113
117/4119	217/4118	317/4114
118/4120	218/4119	318/4116
119/4124	219/4120	319/4117
120/4126	220/4124	320/4118
121/4128	221/4126	321/4119

Note: Total No. of entries in the trial are 31; For Zone-IV only 21 entries are included. Wherever missing numbers are found, those entries are not included for zone-IV

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1	Trial No.	41
2	Name of the trial	Advance Variety Trial 2&1 – Aerobic (AVT 2& 1-Aerob)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	25 (04 for Zone - V)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (Direct seeded) (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	31 (for Zone- V only 16 entries)
12	Check Varieties:	National: DRR Dhan 54, CR Dhan 201; Zonal: CRDhan202(Northern, Eastern, NorthEastern, Central); AAUD R-1(Western), MAS 946-1(Southern), Hybrid: PA 6129 and Local Check.
13	General Instructions	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 5-6days after sowing. • Apply bispyribacsodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not • experience moisture stress at any stages of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 41 : Layout plan of entries in Advance Variety Trial 2&1-Aerobic
(AVT 2& 1-Aerob), Kharif 2024 (Zone – V)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4102	201/4123	301/4129
102/4110	202/4131	302/4123
103/4114	203/4102	303/4128
104/4116	204/4110	304/4131
105/4117	205/4114	305/4102
106/4118	206/4116	306/4110
107/4119	207/4117	307/4114
108/4120	208/4118	308/4116
109/4122	209/4119	309/4117
110/4124	210/4120	310/4118
111/4125	211/4122	311/4119
112/4126	212/4124	312/4120
113/4131	213/4125	313/4122
114/4128	214/4126	314/4124
115/4129	215/4128	315/4125
116/4123	216/4129	316/4126

Note: Total No. of entries in the trial are 31; For Zone-V only 16 entries are included. Wherever missing numbers are found, those entries are not included for zone-V.

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1	Trial No.	41
2	Name of the trial	Advance Variety Trial 2&1 – Aerobic (AVT 2& 1-Aerob)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	25 (04 for Zone - VI)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (Direct seeded) (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	31 (for Zone- VI only 13 entries)
12	Check Varieties:	National: DRR Dhan 54, CR Dhan 201; Zonal: CRDhan202(Northern, Eastern, NorthEastern, Central); AAUD R-1(Western), MAS 946-1(Southern), Hybrid: PA 6129 and Local Check.
13	General Instructions	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 5-6days after sowing. • Apply bispyribacsodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not experience moisture stress at any stages of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO4 solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 41 : Layout plan of entries in Advance Variety Trial 2&1-Aerobic
(AVT 2& 1-Aerob), Kharif 2024 (Zone – VI)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4102	201/4131	301/4124
102/4104	202/4102	302/4126
103/4110	203/4104	303/4128
104/4114	204/4110	304/4131
105/4116	205/4114	305/4102
106/4117	206/4116	306/4104
107/4118	207/4117	307/4110
108/4119	208/4118	308/4114
109/4120	209/4119	309/4116
110/4124	210/4120	310/4117
111/4126	211/4124	311/4118
112/4128	212/4126	312/4119
113/4131	213/4128	313/4120

Note: Total No. of entries in the trial are 31; For Zone-VI only 13 entries are included. Wherever missing numbers are found, those entries are not included for zone-VI.

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1	Trial No.	41
2	Name of the trial	Advance Variety Trial 2&1 – Aerobic (AVT 2& 1-Aerob)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	25 (03 for Zone - VII)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (Direct seeded) (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	31 (for Zone- VII only 14 entries)
12	Check Varieties:	National: DRR Dhan 54, CR Dhan 201; Zonal: CRDhan202(Northern, Eastern, North Eastern, Central); AAUD R-1(Western), MAS 946-1(Southern), Hybrid: PA 6129 and Local Check.
13	General Instructions	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 5-6days after sowing. • Apply bispyribacsodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not experience moisture stress at any stages of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 41 : Layout plan of entries in Advance Variety Trial 2&1-Aerobic
(AVT 2& 1-Aerob), Kharif 2024 (Zone – VII)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4101	201/4131	301/4128
102/4102	202/4101	302/4126
103/4110	203/4102	303/4131
104/4114	204/4110	304/4101
105/4116	205/4114	305/4102
106/4117	206/4116	306/4110
107/4118	207/4117	307/4114
108/4119	208/4118	308/4116
109/4120	209/4119	309/4117
110/4121	210/4120	310/4118
111/4124	211/4121	311/4119
112/4126	212/4124	312/4120
113/4128	213/4126	313/4121
114/4131	214/4128	314/4124

Note: Total No. of entries in the trial are 31; For Zone-VII only 14 entries are included. Wherever missing numbers are found, those entries are not included for zone-VII.

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1	Trial No.	42
2	Name of the trial:	Initial Variety Trial – Aerobic (IVT-AEROB)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations:	26
5	Layout:	Simple Lattice Design
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need based
9	Plot size:	10 sq m (Direct seeded) (This should be strictly followed)
10	Spacing:	20 x 15 cm or 30 x 10 cm
11	Total no. of entries:	64
12	Check varieties:	National: DRR Dhan 54, Zonal: CR Dhan 202 (Northern, Eastern, North Eastern and Central), AAUDR -1 (Western), MAS 942-1 (Southern), Hybrid PA 6129, Hybrid Observational Check : DRR H-4 and Local Check.
13	General instructions:	<ul style="list-style-type: none"> • Dibble 2 or 3 seeds / hill at shallow depth. • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near • saturated condition within 5-6days after sowing. • Apply bispyribac sodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain aerobic condition and provide need based frequent irrigation when tips of top leaves start rolling so that plants should not experience moisture stress at any stage of crop growth. • Crop should not suffer due to drought. • There should not be more than one day standing water in field.
14.	Fertilizer application:	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage.) • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO₄ solution 2-3 times at weekly interval.
15	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Maximum and minimum temperature • Number of irrigations given in relation to crop growth. • Rainfall data and quantity of irrigation water
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield. • Kindly provide weather data especially rainfall data. 		

**Trial No. 42: Layout plan of entries in Initial Variety
Trial – Aerobic(IVT-AEROB), Kharif 2024**

REPLICATION-I

101/4217	109/4259	117/4234	125/4206	133/4212	141/4255	149/4230	157/4209
102/4222	110/4252	118/4254	126/4247	134/4245	142/4210	150/4205	158/4227
103/4233	111/4213	119/4214	127/4231	135/4225	143/4211	151/4239	159/4251
104/4216	112/4219	120/4237	128/4226	136/4215	144/4249	152/4262	160/4240
105/4207	113/4232	121/4260	129/4248	137/4204	145/4244	153/4228	161/4203
106/4263	114/4243	122/4224	130/4258	138/4246	142/4257	154/4201	162/4235
107/4250	115/4241	123/4220	131/4202	139/4236	147/4221	155/4253	163/4223
108/4242	116/4256	124/4208	132/4264 (LC)	140/4229	148/4261	156/4218	164/4238

REPLICATION-II

201/4203	209/4238	217/4223	225/4235	233/4209	241/4251	249/4227	257/4240
202/4260	210/4208	218/4220	226/4224	234/4234	242/4214	250/4254	258/4237
203/4228	211/4218	219/4253	227/4201	235/4230	243/4239	251/4205	259/4262
204/4232	212/4256	220/4241	228/4243	236/4259	242/4213	252/4252	260/4219
205/4244	213/4261	221/4221	229/4257	237/4255	245/4211	253/4210	261/4249
206/4248	214/4264 (LC)	222/4202	230/4258	238/4206	242/4231	254/4247	262/4226
207/4207	215/4242	223/4250	231/4263	239/4217	247/4233	255/4222	263/4216
208/4204	216/4229	224/4236	232/4246	240/4212	248/4225	256/4245	264/4215

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1	Trial No.	43
2	Name of the trial	Advance Variety Trial 2 & 1– Medium Slender Grain (AVT 2 & 1-MS)
3	Objectives:	To study the comparative performance of Medium Slender grain cultivars and elite lines for yield and quality
4	Total Locations	39 (10 for Zone – III)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	Transplanting: 20 cm cm between rows & 15 cm between plants
11	Total No. of entries	28 (For Zone –III only 14 entries)
12	Check Varieties:	National: Telangana Sona (Early Duration), WGL14 (Medium duration) & BPT 5204 (Late duration & Recurrent Parent); Zonal: Improved Samba Mahsuri (Eastern & Central), Ketekijoha (North Eastern), Karjat 6 (Western), ADT 49 (Southern) ; Hybrids: 27 P 63 and LocalCheck
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Grains/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature • Data will be considered only if MS grain type is used as LocalCheck
Data will not be considered if mean yield of the experiment is below 4t/ha. Kindly offer an explanation for the low yield.		

**Trial No. 43: Layout plan of entries in Advance Variety Trial 1 – Medium Slender Grain
(AVT 2& 1-MS), Kharif 2024 (Zone III)**

Replication 1 Plot No/Entry No	Replication 2 Plot No/Entry No	Replication 3 Plot No/Entry No
101/4304	201/4325	301/4318
102/4307	202/4327	302/4319
103/4308	203/4304	303/4323
104/4309	204/4307	304/4325
105/4310	205/4308	305/4327
106/4311	206/4309	306/4304
107/4314	207/4310	307/4307
108/4315	208/4311	308/4308
109/4316	209/4314	309/4309
110/4318	210/4315	310/4310
111/4319	211/4316	311/4311
112/4323	212/4318	312/4314
113/4325	213/4319	313/4315
114/4327	214/4323	314/4316

Note: Total No. of entries in the trial are 28; For Zone-III only 14 entries are included.
Wherever missing numbers are found, those entries are not included for Zone-III.

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1	Trial No.	43
2	Name of the trial	Advance Variety Trial 2 & 1– Medium Slender Grain (AVT 2 & 1-MS)
3	Objectives:	To study the comparative performance of Medium Slender grain cultivars and elite lines for yield and quality
4	Total Locations	39 (4 for Zone – IV)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	Transplanting: 20 cm between rows & 15 cm between plants
11	Total No. of entries	28 (For Zone –IV only 16 entries)
12	Check Varieties:	National: Telangana Sona (Early Duration), WGL14 (Medium duration) & BPT 5204 (Late duration & Recurrent Parent); Zonal: Improved Samba Mahsuri (Eastern & Central), Ketekijoha (North Eastern), Karjat 6 (Western), ADT 49 (Southern) ; Hybrids: 27 P 63 and Local Check
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Grains/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature • Data will be considered only if MS grain type is used as Local Check
Data will not be considered if mean yield of the experiment is below 4t/ha. Kindly offer an explanation for the low yield.		

**Trial No. 43: Layout plan of entries in Advance Variety Trial 1 – Medium Slender Grain
(AVT 2& 1-MS), Kharif 2024 (Zone IV)**

Replication 1 Plot No/Entry No	Replication 2 Plot No/Entry No	Replication 3 Plot No/Entry No
101/4302	201/4314	301/4319
102/4303	202/4315	302/4323
103/4304	203/4318	303/4314
104/4305	204/4302	304/4315
105/4306	205/4303	305/4318
106/4307	206/4304	306/4302
107/4308	207/4305	307/4303
108/4309	208/4306	308/4304
109/4311	209/4307	309/4305
110/4314	210/4308	310/4306
111/4315	211/4309	311/4307
112/4318	212/4311	312/4308
113/4319	213/4325	313/4309
114/4323	214/4326	314/4311
115/4325	215/4319	315/4325
116/4326	216/4323	316/4326

Note: Total No. of entries in the trial are 28; For Zone-IV only 16 entries are included.
Wherever missing numbers are found, those entries are not included for Zone-IV.

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1	Trial No.	43
2	Name of the trial	Advance Variety Trial 2 & 1– Medium Slender Grain (AVT 2 & 1-MS)
3	Objectives:	To study the comparative performance of Medium Slender grain cultivars and elite lines for yield and quality
4	Total Locations	39 (3 for Zone – V)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	Transplanting: 20 cm cm between rows & 15 cm between plants
11	Total No. of entries	28 (For Zone –V only 16 entries)
12	Check Varieties:	National: Telangana Sona (Early Duration), WGL14 (Medium duration) & BPT 5204 (Late duration & Recurrent Parent); Zonal: Improved Samba Mahsuri (Eastern & Central), Ketekijoha (North Eastern), Karjat 6 (Western), ADT 49 (Southern) ; Hybrids: 27 P 63 and LocalCheck
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Grains/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature • Data will be considered only if MS grain type is used as LocalCheck
Data will not be considered if mean yield of the experiment is below 4t/ha. Kindly offer an explanation for the low yield.		

**Trial No. 43: Layout plan of entries in Advance Variety Trial 1 – Medium Slender Grain
(AVT 2& 1-MS), Kharif 2024 (Zone V)**

Replication 1 Plot No/Entry No	Replication 2 Plot No/Entry No	Replication 3 Plot No/Entry No
101/4304	201/4325	301/4322
102/4307	202/4328	302/4323
103/4308	203/4304	303/4325
104/4309	204/4307	304/4328
105/4311	205/4308	305/4304
106/4313	206/4309	306/4307
107/4314	207/4311	307/4308
108/4315	208/4313	308/4309
109/4317	209/4314	309/4311
110/4318	210/4315	310/4313
111/4319	211/4317	311/4314
112/4320	212/4318	312/4315
113/4322	213/4319	313/4317
114/4323	214/4320	314/4318
115/4325	215/4322	315/4319
116/4328	216/4323	316/4320

Note: Total No. of entries in the trial are 28; For Zone-V only 16 entries are included.
Wherever missing numbers are found, those entries are not included for Zone-V.

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1	Trial No.	43
2	Name of the trial	Advance Variety Trial 2 & 1– Medium Slender Grain (AVT 2 & 1-MS)
3	Objectives:	To study the comparative performance of Medium Slender grain cultivars and elite lines for yield and quality
4	Total Locations	39 (7 for Zone – VI)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	Transplanting: 20 cm cm between rows & 15 cm between plants
11	Total No. of entries	28 (For Zone –VI only 11 entries)
12	Check Varieties:	National: Telangana Sona (Early Duration), WGL14 (Medium duration) & BPT 5204 (Late duration & Recurrent Parent); Zonal: Improved Samba Mahsuri (Eastern & Central), Ketekijoha (North Eastern), Karjat 6 (Western), ADT 49 (Southern) ; Hybrids: 27 P 63 and LocalCheck
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Grains/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature • Data will be considered only if MS grain type is used as LocalCheck
Data will not be considered if mean yield of the experiment is below 4t/ha. Kindly offer an explanation for the low yield.		

**Trial No. 43: Layout plan of entries in Advance Variety Trial 1 – Medium Slender Grain
(AVT 2& 1-MS), Kharif 2024 (Zone VI)**

Replication 1	Replication 2	Replication 3
Plot No/Entry No	Plot No/Entry No	Plot No/Entry No
101/4304	201/4323	301/4315
102/4307	202/4325	302/4318
103/4308	203/4304	303/4319
104/4309	204/4307	304/4323
105/4311	205/4308	305/4325
106/4314	206/4309	306/4304
107/4315	207/4311	307/4307
108/4318	208/4314	308/4308
109/4319	209/4315	309/4309
110/4323	210/4318	310/4311
111/4325	211/4319	311/4314

Note: Total No. of entries in the trial are 28; For Zone-VI only 11 entries are included.
Wherever missing numbers are found, those entries are not included for Zone-VI.

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1	Trial No.	43
2	Name of the trial	Advance Variety Trial 2&1– Medium Slender Grain (AVT 2 & 1-MS)
3	Objectives:	To study the comparative performance of Medium Slender grain cultivars and elite lines for yield and quality
4	Total Locations	39 (15 for Zone – VII)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	Transplanting: 20 cm cm between rows & 15 cm between plants
11	Total No. of entries	28 (For Zone –VII only 18 entries)
12	Check Varieties:	National: Telangana Sona (Early Duration), WGL14 (Medium duration) & BPT 5204 (Late duration & Recurrent Parent); Zonal: Improved Samba Mahsuri (Eastern & Central), Ketekijoha (North Eastern), Karjat 6 (Western), ADT 49 (Southern) ; Hybrids: 27 P 63 and LocalCheck
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Grains/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature • Data will be considered only if MS grain type is used as LocalCheck
Data will not be considered if mean yield of the experiment is below 4t/ha. Kindly offer an explanation for the low yield.		

**Trial No. 43: Layout plan of entries in Advance Variety Trial 1 – Medium Slender Grain
(AVT 2& 1-MS), Kharif 2024 (Zone VII)**

Replication 1 Plot No/Entry No	Replication 2 Plot No/Entry No	Replication 3 Plot No/Entry No
101/4301	201/4324	301/4321
102/4304	202/4325	302/4323
103/4305	203/4301	303/4324
104/4307	204/4304	304/4325
105/4308	205/4305	305/4301
106/4309	206/4307	306/4304
107/4310	207/4308	307/4305
108/4311	208/4309	308/4307
109/4312	209/4310	309/4308
110/4314	210/4311	310/4309
111/4315	211/4312	311/4310
112/4317	212/4314	312/4311
113/4318	213/4315	313/4312
114/4319	214/4317	314/4314
115/4321	215/4318	315/4315
116/4323	216/4319	316/4317
117/4324	217/4321	317/4318
118/4325	218/4323	318/4319

Note: Total No. of entries in the trial are 28; For Zone-VII only 18 entries are included. Wherever missing numbers are found, those entries are not included for Zone-VII.

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1	Trial No.	44
2	Name of the trial	Initial Variety Trial– Medium Slender Grain (IVT-MS)
3	Objectives:	To study the comparative performance of Medium Slender grain cultivars and elite lines for yield and quality
4	Total Locations	39
5	Layout:	Randomized Block Design (RBD)
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	Transplanting: 20 cm between rows & 15 cm between plants
11	Total No. of entries	64
12	Check Varieties:	National: Telangana Sona (Early Duration), WGL14 (Medium duration) & BPT 5204 (Late duration); Zonal: Improved Samba Mahsuri (Eastern & Central), Ketekijoha (North Eastern), Karjat 6 (Western), ADT 44 (Southern); and Local Check
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Grains/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature • Data will be considered only if MS grain type is used as Local Check
Data will not be considered if mean yield of the experiment is below 4t/ha. Kindly offer an explanation for the low yield.		

**Trial No. 44: Layout plan of entries in Initial Variety Trial– Medium Slender Grain
(IVT-MS), Kharif 2024**

REPLICATION-I

101/4417	109/4459	117/4434	125/4406	133/4412	141/4455	149/4430	157/4409
102/4422	110/4452	118/4454	126/4447	134/4445	142/4410	150/4405	158/4427
103/4433	111/4413	119/4414	127/4431	135/4425	143/4411	151/4439	159/4451
104/4416	112/4419	120/4437	128/4426	136/4415	144/4440	152/4462	160/4449
105/4407	113/4432	121/4460	129/4448	137/4404	145/4444	153/4428	161/4403
106/4463	114/4443	122/4424	130/4458	138/4446	146/4457	154/4401	162/4435
107/4450	115/4441	123/4420	131/4402	139/4436	147/4421	155/4453	163/4423
108/4442	116/4456	124/4408	132/4464 (LC)	140/4429	148/4461	156/4418	164/4438

REPLICATION-II

201/4403	209/4438	217/4423	225/4435	233/4409	241/4451	249/4427	257/4440
202/4460	210/4408	218/4420	226/4424	234/4434	242/4414	250/4454	258/4437
203/4428	211/4418	219/4453	227/4401	235/4430	243/4439	251/4405	259/4462
204/4432	212/4456	220/4441	228/4443	236/4459	244/4413	252/4452	260/4419
205/4444	213/4461	221/4421	229/4457	237/4455	245/4411	253/4410	261/4449
206/4448	214/4464 (LC)	222/4402	230/4458	238/4406	246/4431	254/4447	262/4426
207/4407	215/4442	223/4450	231/4463	239/4417	247/4433	255/4422	263/4416
208/4404	216/4429	224/4436	232/4446	240/4412	248/4425	256/4445	264/4415

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1	Trial No.	45
2	Name of the trial	Advance Variety Trial 1– Rice Biofortification (AVT 1 –BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38 (3 For Zone II)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	18 (For Zone-II only 07 Entries)
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 45: Layout plan of entries in Advance Variety Trial 1– Rice Biofortification
(AVT 1 - BIOFORT), Kharif 2024 (ZONE-II)**

Replication 1	Replication 2	Replication 3
Plot no/Entry No	Plot no/Entry No	Plot no/Entry No
101/4502	201/4509	301/4506
102/4504	202/4511	302/4509
103/4506	203/4502	303/4511
104/4509	204/4504	304/4515
105/4511	106/4512	305/4504
106/4512	107/4515	306/4512
107/4515	205/4506	307/4502

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1	Trial No.	45
2	Name of the trial	Advance Variety Trial 1– Rice Biofortification (AVT 1 –BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38 (9 for Zone III)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	18 (For Zone-III only 10 Entries)
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 45: Layout plan of entries in Advance Variety Trial 1– Rice Biofortification
(AVT 1 - BIOFORT), Kharif 2024 (ZONE-III)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4502	201/4517	301/4510
102/4506	202/4518	302/4514
103/4509	203/4502	303/4516
104/4510	204/4506	304/4512
105/4514	205/4509	305/4515
106/4516	206/4510	306/4502
107/4517	207/4512	307/4506
108/4518	208/4515	308/4509
109/4512	209/4516	309/4517
110/4515	210/4514	310/4518

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1	Trial No.	45
2	Name of the trial	Advance Variety Trial 1– Rice Biofortification (AVT 1 –BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38 (1 For Zone IV)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	18 (For Zone-III only 11 Entries)
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 45: Layout plan of entries in Advance Variety Trial 1– Rice Biofortification
(AVT 1 - BIOFORT), Kharif 2024 (ZONE-IV)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4501	201/4510	301/4505
102/4502	202/4513	302/4506
103/4504	203/4514	303/4509
104/4505	204/4501	304/4510
105/4506	205/4502	305/4512
106/4509	206/4504	306/4515
107/4510	207/4505	307/4501
108/4513	208/4512	308/4502
109/4514	209/4515	309/4504
110/4512	210/4506	310/4513
111/4515	211/4509	311/4514

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1	Trial No.	45
2	Name of the trial	Advance Variety Trial 1– Rice Biofortification (AVT 1 –BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38 (6 For Zone V)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	18 (For Zone-V only 7 Entries)
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 45: Layout plan of entries in Advance Variety Trial 1– Rice Biofortification
(AVT 1 - BIOFORT), Kharif 2024 (ZONE-V)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4502	201/4518	301/4512
102/4506	202/4502	302/4515
103/4509	203/4506	303/4516
104/4512	204/4509	304/4518
105/4515	205/4512	305/4502
106/4516	206/4515	306/4506
107/4518	207/4516	307/4509

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1	Trial No.	45
2	Name of the trial	Advance Variety Trial 1– Rice Biofortification (AVT 1 –BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38 (3 for zone-VI)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	18 (For Zone-VI only 14 Entries)
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 45: Layout plan of entries in Advance Variety Trial 1– Rice Biofortification
(AVT 1 - BIOFORT), Kharif 2024 (ZONE-VI)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4502	201/4517	301/4515
102/4503	202/4518	302/4514
103/4504	203/4502	303/4516
104/4506	204/4503	304/4517
105/4508	205/4504	305/4518
106/4509	206/4506	306/4502
107/4510	207/4508	307/4503
108/4511	208/4509	308/4504
109/4512	209/4510	309/4506
110/4515	210/4511	310/4508
111/4514	211/4512	311/4509
112/4516	212/4515	312/4510
113/4517	213/4514	313/4511
114/4518	214/4516	314/4512

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1	Trial No.	45
2	Name of the trial	Advance Variety Trial 1– Rice Biofortification (AVT 1 –BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38 (16 For zone VII)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	18 (For Zone-VII only 17 Entries)
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 45: Layout plan of entries in Advance Variety Trial 1– Rice Biofortification
(AVT 1 - BIOFORT), Kharif 2024 (ZONE-VII)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4501	201/4518	301/4514
102/4502	202/4501	302/4517
103/4503	203/4502	303/4518
104/4504	204/4503	304/4501
105/4505	205/4504	305/4502
106/4506	206/4505	306/4503
107/4507	207/4506	307/4504
108/4508	208/4507	308/4505
109/4509	209/4508	309/4506
110/4510	210/4509	310/4507
111/4511	211/4510	311/4508
112/4512	212/4511	312/4509
113/4515	213/4512	313/4510
114/4513	214/4515	314/4511
115/4514	215/4513	315/4512
116/4517	216/4514	316/4515
117/4518	217/4517	317/4513

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1	Trial No.	46
2	Name of the trial	Initial Variety Trial – Rice Biofortification (IVT BIOFORT)
3	Objectives:	To study the comparative performance of elite lines for yield and nutritional quality
4	Total Locations	38
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the centre is not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	53
12	Check Varieties:	Yield Checks: BPT 5204 & IR 64; Yield & Micro Nutrient Checks: DRR Dhan 48 and DRR Dhan 45; Micro Nutrient Check: Chittimutyalu
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly • Soil samples up to 20 cm deep before planting and after harvesting to be collected and sent to IIRR for analysis for estimating Fe & Zn content
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 46: Layout plan of entries in Initial Variety Trial – Rice Biofortification
(IVT- BIOFORT), Kharif 2024**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/4601	201/4613	301/4648
102/4602	202/4614	302/4649
103/4603	203/4651	303/4650
104/4604	204/4652	304/4613
105/4605	205/4653	305/4614
106/4606	206/4601	306/4651
107/4607	207/4602	307/4652
108/4608	208/4603	308/4653
109/4609	209/4604	309/4601
110/4610	210/4605	310/4602
111/4611	211/4606	311/4603
112/4612	212/4607	312/4604
113/4613	213/4608	313/4605
114/4614	214/4609	314/4606
115/4615	215/4610	315/4607
116/4616	216/4611	316/4608
117/4617	217/4612	317/4609
118/4618	218/4615	318/4610
119/4619	219/4616	319/4611
120/4620	220/4617	320/4612
121/4621	221/4618	321/4615
122/4622	222/4619	322/4616
123/4623	223/4620	323/4617
124/4624	224/4621	324/4618
125/4625	225/4622	325/4619
126/4626	226/4623	326/4620
127/4627	227/4624	327/4621
128/4628	228/4625	328/4622
129/4629	229/4626	329/4623
130/4630	230/4627	330/4624
131/4631	231/4628	331/4625
132/4632	232/4629	332/4626
133/4633	233/4630	333/4627
134/4634	234/4631	334/4628
135/4635	235/4632	335/4629
136/4636	236/4633	336/4630
137/4637	237/4634	337/4631
138/4638	238/4635	338/4632
139/4639	239/4636	339/4633
140/4640	240/4637	340/4634
141/4641	241/4638	341/4635
142/4642	242/4639	342/4636
143/4643	243/4640	343/4637
144/4644	244/4641	344/4638
145/4645	245/4642	345/4639
146/4646	246/4643	346/4640
147/4647	247/4644	347/4641
148/4648	248/4645	348/4642
149/4649	249/4646	349/4643
150/4650	250/4647	350/4644
151/4651	251/4648	351/4645
152/4652	252/4649	352/4646
153/4653	253/4650	353/4647

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1	Trial No.	47
2	Name of the trial	Advance Variety Trial 2&1 - Alkaline and Inland Saline Tolerant Variety Trial (AVT 2&1 -AL& ISTVT)-Zone II
3	Objectives:	To evaluate comparative performance of promising elite cultures for Alkalinity and Inland salinity.
4	Total Locations	18 (7-for zone II)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	4
7	Fertilizers:	As per the recommendation of the centre
8	Plot size	15 sq m (This should be strictly followed)
9	Spacing	15 x 15 cm
10	Total No. of entries	36 (For Zone-II only 28 entries)
11	Check Varieties:	Alkaline Tolerant check (CSR 36)32043 (GEL-Drt+ Salt) MTU 1010 (RP) Sensitive check & RP (Pusa 44) Local check (LC)
12	Special instructions:	<ul style="list-style-type: none"> Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General Instructions	<ul style="list-style-type: none"> The trial for sodic soils (alkaline) may be conducted in soil with pH >8.5, EC <4 dSm⁻¹ and ESP more than 15% whereas inland salinity trial may be conducted in soil with pH ≤ 8.0, EC >4 dSm⁻¹ Select a homogeneously Alkaline/ Inland saline area for main field Raise the nursery in normal soil and sow the nursery as thin as possible Transplant seedlings shallow Seedlings per hill : 2-3 Gap fill within a week of planting after recording the mortality of theseedlings Transplant 30 days old seedlings & incorporate fertilizer evenly No soil amendment or high doses of fertilizer to be added
14	Data to be Collected:	<ul style="list-style-type: none"> Soil characteristics: For sodic/alkaline and inland saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/ transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. Soil Samples need to be sent to CSSRI Karnal. EC and pH data of irrigation water/inundation water. Water depth and duration of water during crop growth Seedling survival percentage Grain yield (kg/plot) based on net plot size to be reported Days to 50% flowering & Plant height (cm) Phenotypic acceptability Reaction to pests and diseases Rainfall during crop growth (Number of rainy days) Maximum & minimum temperature
<ul style="list-style-type: none"> When the mean yield of the experiment is below 2t/ha, kindly offer an explanation for the low yield. 		

NB:

- i) Without the data on pH & EC at three stages of crop growth data will not be considered.
- ii) Since very frequently trials of AL&ISTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.
- iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centers is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

Trial 47: Layout plan of entries in Advance Variety Trial 2&1 - Alkaline and Inland SalineTolerant Variety Trial (AVT 2&1- AL & ISTVT)-Zone II, Kharif 2024

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.	Replication 4 Plot No. / Entry No.
101/4722	201/4701	301/4736	401/4721
102/4721	202/4702	302/4735	402/4722
103/4725	203/4705	303/4721	403/4701
104/4732	204/4706	304/4722	404/4725
105/4733	205/4707	305/4725	405/4702
106/4734	206/4708	306/4732	406/4705
107/4701	207/4709	307/4733	407/4706
108/4702	208/4710	308/4734	408/4736
109/4705	209/4711	309/4701	409/4735
110/4706	210/4712	310/4702	410/4732
111/4707	211/4715	311/4705	411/4733
112/4708	212/4716	312/4706	412/4734
113/4709	213/4717	313/4707	413/4707
114/4710	214/4719	314/4708	414/4708
115/4711	215/4721	315/4709	415/4709
116/4712	216/4722	316/4710	416/4710
117/4715	217/4725	317/4711	417/4711
118/4716	218/4726	318/4712	418/4712
119/4717	219/4727	319/4715	419/4715
120/4719	220/4728	320/4716	420/4716
121/4726	221/4729	321/4717	421/4717
122/4727	222/4730	322/4719	422/4719
123/4731	223/4731	323/4726	423/4726
124/4736	224/4732	324/4727	424/4727
125/4735	225/4733	325/4728	425/4729
126/4728	226/4734	326/4731	426/4730
127/4730	227/4735	327/4730	427/4731
128/4729	228/4736	328/4729	428/4728

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1	Trial No.	47
2	Name of the trial	Advance Variety Trial 2&1 - Alkaline and Inland Saline Tolerant Variety Trial (AVT 2&1 -AL& ISTVT)-Zone III
3	Objectives:	To evaluate comparative performance of promising elite cultures for Alkalinity and Inland salinity.
4	Total Locations	18 (3-for Zone III)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	4
7	Fertilizers:	As per the recommendation of the centre
8	Plot size	15 sq m (This should be strictly followed)
9	Spacing	15 x 15 cm
10	Total No. of entries	36 (For Zone-III only 27 entries)
11	Check Varieties:	Alkaline Tolerant check (CSR 36)32043 (GEL-Drt+ Salt) MTU 1010 (RP) Sensitive check & RP (Pusa 44) Local check (LC)
12	Special instructions:	<ul style="list-style-type: none"> Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General Instructions	<ul style="list-style-type: none"> The trial for sodic soils (alkaline) may be conducted in soil with pH >8.5, EC <4 dSm⁻¹ and ESP more than 15% whereas inland salinity trial may be conducted in soil with pH ≤ 8.0, EC >4 dSm⁻¹ Select a homogeneously Alkaline/ Inland saline area for main field Raise the nursery in normal soil and sow the nursery as thin as possible Transplant seedlings shallow Seedlings per hill : 2-3 Gap fill within a week of planting after recording the mortality of theseedlings Transplant 30 days old seedlings & incorporate fertilizer evenly No soil amendment or high doses of fertilizer to be added
14	Data to be Collected:	<ul style="list-style-type: none"> Soil characteristics: For sodic/alkaline and inland saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/ transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. Soil Samples need to be sent to CSSRI Karnal. EC and pH data of irrigation water/inundation water. Water depth and duration of water during crop growth Seedling survival percentage Grain yield (kg/plot) based on net plot size to be reported Days to 50% flowering & Plant height (cm) Phenotypic acceptability Reaction to pests and diseases Rainfall during crop growth (Number of rainy days) Maximum & minimum temperature
<ul style="list-style-type: none"> When the mean yield of the experiment is below 2t/ha, kindly offer an explanation for the low yield. 		

NB:

- ❖ Without the data on pH & EC at three stages of crop growth data will not be considered.
- ❖ Since very frequently trials of AL&ISTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.
- ❖ It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centers is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

**Trial 47: Layout plan of entries in Advance Variety Trial 2&1 - Alkaline and Inland Saline
Tolerant Variety Trial (AVT 2&1- AL & ISTVT)-Zone III Kharif 2024**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.	Replication 4 Plot No. / Entry No.
101/4722	201/4701	301/4736	401/4721
102/4721	202/4702	302/4735	402/4722
103/4725	203/4705	303/4721	403/4701
104/4732	204/4706	304/4722	404/4725
105/4733	205/4736	305/4725	405/4702
106/4734	206/4708	306/4732	406/4705
107/4701	207/4709	307/4733	407/4706
108/4702	208/4710	308/4734	408/4736
109/4705	209/4711	309/4701	409/4735
110/4706	210/4712	310/4702	410/4732
111/4729	211/4715	311/4705	411/4733
112/4708	212/4716	312/4706	412/4734
113/4709	213/4717	313/4729	413/4728
114/4710	214/4719	314/4708	414/4708
115/4711	215/4721	315/4709	415/4709
116/4712	216/4722	316/4710	416/4710
117/4715	217/4725	317/4711	417/4711
118/4716	218/4726	318/4712	418/4712
119/4717	219/4727	319/4715	419/4715
120/4719	220/4728	320/4716	420/4716
121/4726	221/4729	321/4717	421/4717
122/4727	222/4730	322/4719	422/4719
123/4731	223/4731	323/4726	423/4726
124/4736	224/4732	324/4727	424/4727
125/4735	225/4733	325/4728	425/4729
126/4728	226/4734	326/4731	426/4730
127/4730	227/4735	327/4730	427/4731

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1	Trial No.	47
2	Name of the trial	Advance Variety Trial 2&1 - Alkaline and Inland Saline Tolerant Variety Trial (AVT 2&1 -AL& ISTVT)-Zone VI
3	Objectives:	To evaluate comparative performance of promising elite cultures for Alkalinity and Inland salinity.
4	Total Locations	18 (1 for Zone-VI)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	4
7	Fertilizers:	As per the recommendation of the centre
8	Plot size	15 sq m (This should be strictly followed)
9	Spacing	15 x 15 cm
10	Total No. of entries	36 (For Zone-VI only 32 entries)
11	Check Varieties:	Alkaline Tolerant check (CSR 36)32043 (GEL-Drt+ Salt) MTU 1010 (RP) Sensitive check & RP (Pusa 44) Local check (LC)
12	Special instructions:	<ul style="list-style-type: none"> Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General Instructions	<ul style="list-style-type: none"> The trial for sodic soils (alkaline) may be conducted in soil with pH >8.5, EC <4 dSm⁻¹ and ESP more than 15% whereas inland salinity trial may be conducted in soil with pH ≤ 8.0, EC >4 dSm⁻¹ Select a homogeneously Alkaline/ Inland saline area for main field Raise the nursery in normal soil and sow the nursery as thin as possible Transplant seedlings shallow Seedlings per hill : 2-3 Gap fill within a week of planting after recording the mortality of the seedlings Transplant 30 days old seedlings & incorporate fertilizer evenly No soil amendment or high doses of fertilizer to be added
14	Data to be Collected:	<ul style="list-style-type: none"> Soil characteristics: For sodic/alkaline and inland saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. Soil Samples need to be sent to CSSRI Karnal. EC and pH data of irrigation water/inundation water. Water depth and duration of water during crop growth Seedling survival percentage Grain yield (kg/plot) based on net plot size to be reported Days to 50% flowering & Plant height (cm) Phenotypic acceptability Reaction to pests and diseases Rainfall during crop growth (Number of rainy days) Maximum & minimum temperature
<ul style="list-style-type: none"> When the mean yield of the experiment is below 2t/ha, kindly offer an explanation for the low yield. 		

NB:

- ❖ Without the data on pH & EC at three stages of crop growth data will not be considered.
- ❖ Since very frequently trials of AL&ISTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.
- ❖ It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centers is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

**Trial 47: Layout plan of entries in Advance Variety Trial 2&1 - Alkaline and Inland Saline
Tolerant Variety Trial (AVT 2&1- AL & ISTVT)-Zone VI, Kharif 2024**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.	Replication 4 Plot No. / Entry No.
101/4722	201/4703	301/4736	401/4721
102/4721	202/4702	302/4735	402/4722
103/4725	203/4705	303/4721	403/4703
104/4732	204/4706	304/4722	404/4725
105/4733	205/4713	305/4725	405/4702
106/4734	206/4708	306/4732	406/4705
107/4703	207/4709	307/4733	407/4706
108/4702	208/4710	308/4734	408/4736
109/4705	209/4711	309/4703	409/4735
110/4706	210/4712	310/4702	410/4732
111/4713	211/4715	311/4705	411/4733
112/4708	212/4716	312/4706	412/4734
113/4709	213/4717	313/4713	413/4713
114/4710	214/4719	314/4708	414/4708
115/4711	215/4721	315/4709	415/4709
116/4712	216/4722	316/4710	416/4710
117/4715	217/4725	317/4711	417/4711
118/4716	218/4726	318/4712	418/4712
119/4717	219/4727	319/4715	419/4715
120/4719	220/4728	320/4716	420/4716
121/4726	221/4729	321/4717	421/4717
122/4727	222/4730	322/4719	422/4719
123/4731	223/4731	323/4726	423/4726
124/4736	224/4732	324/4727	424/4727
125/4735	225/4733	325/4728	425/4729
126/4728	226/4734	326/4731	426/4730
127/4730	227/4735	327/4730	427/4731
128/4729	228/4736	328/4729	428/4728
129/4704	229/4704	329/4704	429/4704
130/4714	230/4714	330/4714	430/4723
131/4723	231/4723	331/4723	431/4714
132/4724	232/4724	332/4724	432/4724

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1	Trial No.	47
2	Name of the trial	Advance Variety Trial 2&1 - Alkaline and Inland Saline Tolerant Variety Trial (AVT 2&1 -AL& ISTVT)-Zone VII
3	Objectives:	To evaluate comparative performance of promising elite cultures for Alkalinity and Inland salinity.
4	Total Locations	18 (For Zone VII-7)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	4
7	Fertilizers:	As per the recommendation of the centre
8	Plot size	15 sq m (This should be strictly followed)
9	Spacing	15 x 15 cm
10	Total No. of entries	36 (For Zone-VII only 30 entries)
11	Check Varieties:	Alkaline Tolerant check (CSR 36)32043 (GEL-Drt+ Salt) MTU 1010 (RP) Sensitive check & RP (Pusa 44) Local check (LC)
12	Special instructions:	<ul style="list-style-type: none"> Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General Instructions	<ul style="list-style-type: none"> The trial for sodic soils (alkaline) may be conducted in soil with pH >8.5, EC <4 dSm⁻¹ and ESP more than 15% whereas inland salinity trial may be conducted in soil with pH ≤ 8.0, EC >4 dSm⁻¹ Select a homogeneously Alkaline/ Inland saline area for main field Raise the nursery in normal soil and sow the nursery as thin as possible Transplant seedlings shallow Seedlings per hill : 2-3 Gap fill within a week of planting after recording the mortality of theseedlings Transplant 30 days old seedlings & incorporate fertilizer evenly No soil amendment or high doses of fertilizer to be added
14	Data to be Collected:	<ul style="list-style-type: none"> Soil characteristics: For sodic/alkaline and inland saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. Soil Samples need to be sent to CSSRI Karnal. EC and pH data of irrigation water/inundation water. Water depth and duration of water during crop growth Seedling survival percentage Grain yield (kg/plot) based on net plot size to be reported Days to 50% flowering & Plant height (cm) Phenotypic acceptability Reaction to pests and diseases Rainfall during crop growth (Number of rainy days) Maximum & minimum temperature
<ul style="list-style-type: none"> When the mean yield of the experiment is below 2t/ha, kindly offer an explanation for the low yield. 		

NB:

- ❖ Without the data on pH & EC at three stages of crop growth data will not be considered.
- ❖ Since very frequently trials of AL&ISTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.
- ❖ It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centers is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

Trial 52: Layout plan of entries in Advance Variety Trial 2&1 - Alkaline and Inland SalineTolerant Variety Trial (AVT 2&1- AL & ISTVT)-Zone VII, Kharif 2024

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.	Replication 4 Plot No. / Entry No.
101/4722	201/4701	301/4736	401/4721
102/4721	202/4702	302/4735	402/4722
103/4725	203/4705	303/4721	403/4701
104/4732	204/4706	304/4722	404/4725
105/4733	205/4718	305/4725	405/4702
106/4734	206/4708	306/4732	406/4705
107/4701	207/4709	307/4733	407/4706
108/4702	208/4710	308/4734	408/4736
109/4705	209/4711	309/4701	409/4735
110/4706	210/4712	310/4702	410/4732
111/4718	211/4715	311/4705	411/4733
112/4708	212/4716	312/4706	412/4734
113/4709	213/4717	313/4718	413/4718
114/4710	214/4719	314/4708	414/4708
115/4711	215/4721	315/4709	415/4709
116/4712	216/4722	316/4710	416/4710
117/4715	217/4725	317/4711	417/4711
118/4716	218/4726	318/4712	418/4712
119/4717	219/4727	319/4715	419/4715
120/4719	220/4728	320/4716	420/4716
121/4726	221/4729	321/4717	421/4717
122/4727	222/4730	322/4719	422/4719
123/4731	223/4731	323/4726	423/4726
124/4736	224/4732	324/4727	424/4727
125/4735	225/4733	325/4728	425/4729
126/4728	226/4734	326/4731	426/4730
127/4730	227/4735	327/4730	427/4731
128/4729	228/4736	328/4729	428/4728
129/4704	229/4704	329/4704	429/4704
130/4720	230/4720	330/4720	430/4720

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1	Trial No.	48
2	Name of the trial	Initial Variety Trial 2&1 - Alkaline and Inland Saline Tolerant Variety Trial (IVT-AL& ISTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Alkalinity and Inland salinity.
4	Total Locations	18
5	Layout:	Randomized Block Design (RBD)
6	Replications:	4
7	Fertilizers:	As per the recommendation of the centre
8	Plot size	15 sq m (This should be strictly followed)
9	Spacing	15 x 15 cm
10	Total No. of entries	23
11	Check Varieties:	Alkaline Tolerant check (CSR 36)32043 (GEL-Drt+ Salt) MTU 1010 (RP) Sensitive check & RP (Pusa 44) Local check (LC)
12	Special instructions:	<ul style="list-style-type: none"> Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General Instructions	<ul style="list-style-type: none"> The trial for sodic soils (alkaline) may be conducted in soil with pH >8.5, EC <4 dSm⁻¹ and ESP more than 15% whereas inland salinity trial may be conducted in soil with pH ≤ 8.0, EC >4 dSm⁻¹ Select a homogeneously Alkaline/ Inland saline area for main field Raise the nursery in normal soil and sow the nursery as thin as possible Transplant seedlings shallow Seedlings per hill : 2-3 Gap fill within a week of planting after recording the mortality of the seedlings Transplant 30 days old seedlings & incorporate fertilizer evenly No soil amendment or high doses of fertilizer to be added
14	Data to be Collected:	<ul style="list-style-type: none"> Soil characteristics: For sodic/alkaline and inland saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. Soil Samples need to be sent to CSSRI Karnal. EC and pH data of irrigation water/inundation water. Water depth and duration of water during crop growth Seedling survival percentage Grain yield (kg/plot) based on net plot size to be reported Days to 50% flowering & Plant height (cm) Phenotypic acceptability Reaction to pests and diseases Rainfall during crop growth (Number of rainy days) Maximum & minimum temperature
<ul style="list-style-type: none"> When the mean yield of the experiment is below 2t/ha, kindly offer an explanation for the low yield. 		

NB:

- ❖ Without the data on pH & EC at three stages of crop growth data will not be considered.
- ❖ Since very frequently trials of AL&ISTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.
- ❖ It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centers is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

Trial 48: Layout plan of entries in Initial Variety Trial - Alkaline and Inland Saline Tolerant Variety Trial (IVT- AL & ISTV)

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.	Replication 4 Plot No. / Entry No.
101/4801	201/4822	301/4819	401/4817
102/4802	202/4823	302/4820	402/4818
103/4803	203/4801	303/4821	403/4819
104/4804	204/4802	304/4822	404/4820
105/4805	205/4803	305/4823	405/4821
106/4806	206/4804	306/4801	406/4822
107/4807	207/4805	307/4802	407/4823
108/4808	208/4806	308/4803	408/4801
109/4809	209/4807	309/4804	409/4802
110/4810	210/4808	310/4805	410/4803
111/4811	211/4809	311/4806	411/4804
112/4812	212/4810	312/4807	412/4805
113/4813	213/4811	313/4808	413/4806
114/4814	214/4812	314/4809	414/4807
115/4815	215/4813	315/4810	415/4808
116/4816	216/4814	316/4811	416/4809
117/4817	217/4815	317/4812	417/4810
118/4818	218/4816	318/4813	418/4811
119/4819	219/4817	319/4814	419/4812
120/4820	220/4818	320/4815	420/4813
121/4821	221/4819	321/4816	421/4814
122/4822	222/4820	322/4817	422/4815
123/4823	223/4821	323/4818	423/4816

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1	Trial No.:	49
2	Name of the trial:	Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Coastal Saline soils
4	Locations:	15 (02 locations only for Zone-II)
5	Layout:	Randomized Block Design (RBD)
6	Fertilizers:	As per the recommendation of the centre
7	Replications:	3
8	Entries:	25 (11 entries only for Zone-II)
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing	15 x 15 cm
11	Check varieties:	Coastal saline – Bhuthnath, Early duration saline Check -- CSR 10, Saline Tolerant Check- FL 478, Sensitive Check- Pusa 44 and Local check.
12	Special instructions:	Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyse the pH and EC at your centre and half of the sample send to IIRR.
13	General instructions:	<ul style="list-style-type: none"> • In coastal saline soils, the trial may be conducted in soils with electrical conductivity above 4 dSm⁻¹ and pH < 7. • Select a homogeneously coastal saline area for main field • Raise the nursery in normal soil and sow the nursery as thin as possible • Transplant seedlings shallow • Seedlings per hill: 2-3 • Gap fill within a week of planting after recording the mortality of the seedlings • Transplant 30 days old seedlings & incorporate fertilizer evenly • No soil amendment or high doses of fertilizer to be added
14	Data to be collected:	<ul style="list-style-type: none"> • Soil characteristics: For coastal saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. • EC and pH data of irrigation water/inundation water. • Water depth and duration of water during crop growth • Seedling survival percentage • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering & Plant height (cm) • Phenotypic acceptability • Reaction to pests and diseases • Rainfall during crop growth (Number of rainy days) • Maximum & minimum temperature
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

NB:

i) Without the data on pH & EC at three stages of crop growth, data will not be considered.

ii) Since very frequently trials of CSTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.

iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centres is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT) Zone – II

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/4906	101/4903	101/4915
102/4915	102/4911	102/4925 (LC)
103/4918	103/4909	103/4914
104/4908	104/4916	104/4909
105/4911	105/4915	105/4923
106/4916	106/4918	106/4908
107/4923	107/4925(LC)	107/4906
108/4903	108/4914	108/4918
109/4925 (LC)	109/4908	109/4903
110/4914	110/4923	110/4916
111/4909	111/4906	111/4911

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1	Trial No.:	49
2	Name of the trial:	Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Coastal Saline soils
4	Locations:	15 (03 locations only for Zone-III)
5	Layout:	Randomized Block Design (RBD)
6	Fertilizers:	As per the recommendation of the centre
7	Replications:	3
8	Entries:	25 (22 entries only for Zone-III)
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing	15 x 15 cm
11	Check varieties:	Coastal saline – Bhuthnath, Early duration saline Check -- CSR 10, Saline Tolerant Check- FL 478, Sensitive Check- Pusa 44 and Local check.
12	Special instructions:	Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyse the pH and EC at your centre and half of the sample send to IIRR.
13	General instructions:	<ul style="list-style-type: none"> • In coastal saline soils, the trial may be conducted in soils with electrical conductivity above 4 dSm⁻¹ and pH < 7. • Select a homogeneously coastal saline area for main field • Raise the nursery in normal soil and sow the nursery as thin as possible • Transplant seedlings shallow • Seedlings per hill : 2-3 • Gap fill within a week of planting after recording the mortality of the seedlings • Transplant 30 days old seedlings & incorporate fertilizer evenly • No soil amendment or high doses of fertilizer to be added
14	Data to be collected:	<ul style="list-style-type: none"> • Soil characteristics: For coastal saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. • EC and pH data of irrigation water/inundation water. • Water depth and duration of water during crop growth • Seedling survival percentage • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering & Plant height (cm) • Phenotypic acceptability • Reaction to pests and diseases • Rainfall during crop growth (Number of rainy days) • Maximum & minimum temperature
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

NB: i) Without the data on pH & EC at three stages of crop growth, data will not be considered.
 ii) Since very frequently trials of CSTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.
 iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centres is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT) Zone – III

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/4902	101/4903	101/4915
102/4906	102/4911	102/4901
103/4915	103/4909	103/4905
104/4918	104/4916	104/4922
105/4922	105/4919	105/4914
106/4908	106/4921	106/4919
107/4911	107/4905	107/4925 (LC)
108/4921	108/4913	108/4923
109/4907	109/4915	109/4904
110/4901	110/4918	110/4908
111/4917	111/4920	111/4911
112/4904	112/4925(LC)	112/4913
113/4919	113/4914	113/4918
114/4909	114/4908	114/4903
115/4916	115/4906	115/4907
116/4923	116/4922	116/4917
117/4903	117/4904	117/4921
118/4914	118/4923	118/4906
119/4913	119/4907	119/4920
120/4925 (LC)	120/4917	120/4902
121/4905	121/4901	121/4909
122/4920	122/4902	122/4916

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1	Trial No.:	49
2	Name of the trial:	Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Coastal Saline soils
4	Locations:	15 (04 locations only for Zone-VI)
5	Layout:	Randomized Block Design (RBD)
6	Fertilizers:	As per the recommendation of the centre
7	Replications:	3
8	Entries:	25(13 entries only for Zone-VI)
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing	15 x 15 cm
11	Check varieties:	Coastal saline – Bhuthnath, Early duration saline Check -- CSR 10, Saline Tolerant Check- FL 478, Sensitive Check- Pusa 44 and Local check.
12	Special instructions:	Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General instructions:	<ul style="list-style-type: none"> • In coastal saline soils, the trial may be conducted in soils with electrical conductivity above 4 dSm⁻¹ and pH < 7. • Select a homogeneously coastal saline area for main field • Raise the nursery in normal soil and sow the nursery as thin as possible • Transplant seedlings shallow • Seedlings per hill : 2-3 • Gap fill within a week of planting after recording the mortality of the seedlings • Transplant 30 days old seedlings & incorporate fertilizer evenly • No soil amendment or high doses of fertilizer to be added
14	Data to be collected:	<ul style="list-style-type: none"> • Soil characteristics: For coastal saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. • EC and pH data of irrigation water/inundation water. • Water depth and duration of water during crop growth • Seedling survival percentage • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering & Plant height (cm) • Phenotypic acceptability • Reaction to pests and diseases • Rainfall during crop growth (Number of rainy days) • Maximum & minimum temperature
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

NB:

i) Without the data on pH & EC at three stages of crop growth, data will not be considered.

ii) Since very frequently trials of CSTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.

iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centres is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT) Zone – VI

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/4906	101/4903	101/4915
102/4915	102/4924	102/4925 (LC)
103/4918	103/4909	103/4924
104/4908	104/4916	104/4909
105/4911	105/4915	105/4923
106/4916	106/4912	106/4908
107/4923	107/4925(LC)	107/4906
108/4903	108/4914	108/4918
109/4925 (LC)	109/4908	109/4903
110/4914	110/4923	110/4916
111/4909	111/4906	111/4911
112/4912	112/4911	112/4914
113/4924	113/4918	113/4912

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1	Trial No.:	49
2	Name of the trial:	Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Coastal Saline soils
4	Locations:	15 (06 locations only for Zone-VII)
5	Layout:	Randomized Block Design (RBD)
6	Fertilizers:	As per the recommendation of the centre
7	Replications:	3
8	Entries:	25(12 entries only for Zone-VII)
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing	15 x 15 cm
11	Check varieties:	Coastal saline – Bhuthnath, Early duration saline Check -- CSR 10, Saline Tolerant Check- FL 478, Sensitive Check- Pusa 44 and Local check.
12	Special instructions:	Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyze the pH and EC at your centre and half of the sample send to IIRR.
13	General instructions:	<ul style="list-style-type: none"> • In coastal saline soils, the trial may be conducted in soils with electrical conductivity above 4 dSm⁻¹ and pH < 7. • Select a homogeneously coastal saline area for main field • Raise the nursery in normal soil and sow the nursery as thin as possible • Transplant seedlings shallow • Seedlings per hill : 2-3 • Gap fill within a week of planting after recording the mortality of the seedlings • Transplant 30 days old seedlings & incorporate fertilizer evenly • No soil amendment or high doses of fertilizer to be added
14	Data to be collected:	<ul style="list-style-type: none"> • Soil characteristics: For coastal saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. • EC and pH data of irrigation water/inundation water. • Water depth and duration of water during crop growth • Seedling survival percentage • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering & Plant height (cm) • Phenotypic acceptability • Reaction to pests and diseases • Rainfall during crop growth (Number of rainy days) • Maximum & minimum temperature
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

NB:

- i) Without the data on pH & EC at three stages of crop growth, data will not be considered.*
- ii) Since very frequently trials of CSTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.*
- iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centres is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.*

Advance Variety Trial 1 - Coastal Saline Tolerant Variety Trial (AVT 1-CSTVT) Zone – VII

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/4906	101/4903	101/4915
102/4915	102/4910	102/4925 (LC)
103/4918	103/4909	103/4910
104/4908	104/4916	104/4909
105/4911	105/4915	105/4923
106/4916	106/4918	106/4908
107/4923	107/4925(LC)	107/4906
108/4903	108/4914	108/4918
109/4925 (LC)	109/4908	109/4903
110/4914	110/4923	110/4916
111/4909	111/4906	111/4911
112/4910	112/4911	112/4914

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1	Trial No.:	50
2	Name of the trial:	Initial Variety Trial - Coastal Saline Tolerant Variety Trial (IVT-CSTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Coastal Saline soils
4	Locations:	14
5	Layout:	Randomized Block Design (RBD)
6	Fertilizers:	As per the recommendation of the centre
7	Replications:	3
8	Entries:	38
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing	15 x 15 cm
11	Check varieties:	Early duration saline check (CSR 10), Coastal saline Tolerant check (Buthnath), Saline tolerant check (FL 478), Sensitive check (Pusa 44) & Local Check
12	Special instructions:	Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyse the pH and EC at your centre and half of the sample send to IIRR.
13	General instructions:	<ul style="list-style-type: none"> • In coastal saline soils, the trial may be conducted in soils with electrical conductivity above 4 dSm⁻¹ and pH < 7. • Select a homogeneously coastal saline area for main field • Raise the nursery in normal soil and sow the nursery as thin as possible • Transplant seedlings shallow • Seedlings per hill: 2-3 • Gap fill within a week of planting after recording the mortality of the seedlings • Transplant 30 days old seedlings & incorporate fertilizer evenly • No soil amendment or high doses of fertilizer to be added
14	Data to be collected:	<ul style="list-style-type: none"> • Soil characteristics: For coastal saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. • EC and pH data of irrigation water/inundation water. • Water depth and duration of water during crop growth • Seedling survival percentage • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering & Plant height (cm) • Phenotypic acceptability • Reaction to pests and diseases • Rainfall during crop growth (Number of rainy days) • Maximum & minimum temperature
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

NB: i) Without the data on pH & EC at three stages of crop growth, data will not be considered.

ii) Since very frequently trials of CSTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.

iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centres is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

**Trial 50: Layout plan of entries in Initial Variety Trial - Coastal Saline Tolerant Variety Trial
(IVT-CSTVT)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/5001	201/5037	301/5035
102/5002	202/5038	302/5036
103/5003	203/5001	303/5037
104/5004	204/5002	304/5038
105/5005	205/5003	305/5001
106/5006	206/5004	306/5002
107/5007	207/5005	307/5003
108/5008	208/5006	308/5004
109/5009	209/5007	309/5005
110/5010	210/5008	310/5006
111/5011	211/5009	311/5007
112/5012	212/5010	312/5008
113/5013	213/5011	313/5009
114/5014	214/5012	314/5010
115/5015	215/5013	315/5011
116/5016	216/5014	316/5012
117/5017	217/5015	317/5013
118/5018	218/5016	318/5014
119/5019	219/5017	319/5015
120/5020	220/5018	320/5016
121/5021	221/5019	321/5017
122/5022	222/5020	322/5018
123/5023	223/5021	323/5019
124/5024	224/5022	324/5020
125/5025	225/5023	325/5021
127/5027	227/5025	327/5023
128/5028	228/5026	328/5024
129/5029	229/5027	329/5025
130/5030	230/5028	330/5026
131/5031	231/5029	331/5027
132/5032	232/5030	332/5028
133/5033	233/5031	333/5029
134/5034	234/5032	334/5030
135/5035	235/5033	335/5031
136/5036	236/5034	336/5032
137/5037	237/5035	337/5033
138/5038	238/5036	338/5034

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1	Trial No.	51
2	Name of the trial	Advance Variety Trial 1 & Initial Variety Trial – Aromatic Grain Type (AVT 1 & IVT AGT) (Non-Basmati)
3	Objectives:	To study the comparative performance of aromatic grain cultivars and elite lines for yield and quality
4	Total Locations	35
5	Layout:	Rectangular Lattice Design
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	10 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	35
12	Check Varieties:	National: Shobini, Zonal: Badshabhog Sel-1 (Northern & Central), CR Sugandh Dhan 907 (Eastern & North Eastern), GAR- 14 (Western) Sugandh Samba (Southern), Quality: Dubraj Sel-1, Ketekijoha; Long Grain Check: Rajendranagar Vari-2 (RNR 15435) and Local check.
13	General Instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be Collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Spikelets/Panicle (No.) • Sterility percentage • Test Weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
<ul style="list-style-type: none"> • When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield. 		

**Trial No. 51: Layout plan of entries in Initial Variety Trial - Aromatic Grain Type
(AVT 1 & IVT – AGT) (Non-Basmati), Kharif 2024**

REPLICATION-I

101/5113	108/5121	115/5132	122/5124	129/5125
102/5116	109/5131	116/5106	123/5107	130/5128
103/5130 (LC)	110/5120	117/5111	124/5119	131/5129
104/5101	111/5109	118/5132	125/5127	132/5104
105/5114	112/5115	119/5126	126/5135	133/5122
106/5123	113/5117	120/5103	127/5105	134/5112
107/5134	114/5133	121/5118	128/5110	135/5108

REPLICATION-II

201/5101	208/5119	215/5124	222/5120	229/5112
202/5110	209/5116	216/5105	223/5131	230/5129
203/5122	210/5130 (LC)	217/5102	224/5103	231/5111
204/5107	211/5132	218/5118	225/5115	232/5108
205/5133	212/5121	219/5128	226/5117	233/5113
206/5125	213/5109	220/5135	227/5104	234/5114
207/5134	214/5127	221/5123	228/5126	235/5106

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1	Trial No.	52
2	Name of the trial:	Advance Varietal Trial 2&1 – Low Phosphorous Tolerance Trial(AVT 2&1-LPT)
3	Objective:	To study the comparative performance of elite lines and cultivars for different levels of nitrogen
4	Locations:	10
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	Nitrogen and Potash = Recommended Dose
		Phosphorous= Two levels
		(i) P₅₀ (50% of Phosphorous i.e. 30 Kg/ha)
		ii) P₁₀₀ (100% of Phosphorous i.e. 60 Kg/ha)
8	Plant protection:	Need based
9	Plot size:	Minimum: 3 sq m
10	Spacing:	Transplanting:
		20 cm between rows
		15 cm between plants
11	No. of entries:	31
12	Check varieties:	Positive checks: Swarna, Rasi&Vandana, DRR Dhan 60; Negative checks: Improved Samba Mahsuri
13	General Instruction:	<ul style="list-style-type: none"> • Genotypes should be evaluated at 50% Phosphorus (30kg P₂O₅/ha) and 100% Phosphorous(60kg P₂O₅/ha) • Sow the seed in bed as thin as possible • Transplant 25-day old seedlings, one seedling / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly of recommendation dose • 50% of nitrogen at transplanting as basal dose and remaining 50% in two top dressings
14	Data to be collected:	<ul style="list-style-type: none"> • Soil Nitrogen content should be estimated before transplanting, 45 DAT and at harvesting stage • Days to 50% flowering • Plant height (cm) • Total Tiller Number per plant • Productive tiller per plant (No.) • Panicle length (cm) • No. of filled grains per panicle • Spikelet fertility percentage • Grain yield per plot • Grain yield Kg per ha • Phosphorus content in grain in each plot after harvest • Notes on pests, diseases and lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature. • Any other information

Note: We are transplanting two more entries i.e. 5230&5231. If you received instruction sheet upto entry no. 129 please add two trial (130&131) according to following instruction.

TrialNo.52:Layout plan of entries in AVT2&1-Low Phosphorus tolerance trial, Kharif 2024

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101 /5205	201/5212	301 /5221
102 /5207	202/5218	302 /5213
103 /5203	203/5220	303 /5220
104 /5211	204/5217	304 /5212
105 /5210	205/5219	305 /5219
106 /5206	206/5216	306 /5211
107 /5208	207/5222	307 /5218
108 /5202	208/5215	308 /5210
109 /5201	209/5223	309 /5217
110 /5209	210/5214	310 /5208
111 /5204	211/5224	311 /5201
112/5221	212/5213	312/5225
113/5225	213 /5209	313/5209
114/5213	214 /5203	314/5224
115/5224	215 /5205	315/5207
116/5214	216 /5208	316/5223
117/5223	217 /5206	317/5206
118/5215	218 /5202	318/5222
119/5222	219 /5210	319/5205
120/5216	220 /5204	320/5202
121/5219	221 /5211	321/5216
122/5217	222 /5201	322/5204
123/5220	223 /5207	323/5215
124/5218	224/5225	324/5203
125/5212	225/5221	325/5214
126/5229	226/5226	326/5228
127/5227	227/5228	327/5226
128/5226	228/5229	328/5227
129/5228	229/5227	329/5229
130/5230	130/5231	130/5230
131/5231	131/5230	131/5231

NOTE: Same layout for two levels of Phosphorous

- ❖ **P₅₀(50% of Phosphorous i.e.30kgP₂O₅/ha)**
- ❖ **P₁₀₀(100% of Phosphorous i.e.60kgP₂O₅/ha)**

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1	Trial No.	54
2	Name of the trial:	Initial Varietal Trial– Low Phosphorous Tolerance Trial (IVT -LPT)
3	Objective:	To study the comparative performance of elite lines and cultivars for different levels of nitrogen
4	Locations:	10
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	<ul style="list-style-type: none"> • Nitrogen and Potash = Recommended Dose • Phosphorous= Two levels • P₅₀ (50% of Phosphorous i.e. 30 Kg/ha) • P₁₀₀ (100% of Phosphorous i.e. 60 Kg/ha)
8	Plant protection:	Need based
9	Plot size:	Minimum: 3 sq m
10	Spacing:	Transplanting: <ul style="list-style-type: none"> ✓ 20 cm between row ✓ 15 cm between plants
11	No. of entries:	25
12	Check varieties:	Positive checks: Swarna, Rasi&Vandana, DRR Dhan 60; Negative checks: Improved Samba Mahsuri
13	General Instruction:	<ul style="list-style-type: none"> ✓ Genotypes should be evaluated at 50% Phosphorus (30kg P₂O₅/ha) and 100% Phosphorous(60kg P₂O₅/ha) ✓ Sow the seed in bed as thin as possible ✓ Transplant 25-day old seedlings, one seedling / hill. ✓ Gap fill within a week of planting ✓ Incorporate fertilizer evenly of recommendation dose ✓ 50% of nitrogen at transplanting as basal dose and remaining 50% in two top dressings
14	Data to be collected:	<ul style="list-style-type: none"> ✓ Soil Nitrogen content should be estimated before transplanting, 45 DAT and at harvesting stage ✓ Days to 50% flowering ✓ Plant height (cm) ✓ Total Tiller Number per plant ✓ Productive tiller per plant (No.) ✓ Panicle length (cm) ✓ No. of filled grains per panicle <ul style="list-style-type: none"> ✓ Spikelet fertility percentage ✓ Grain yield per plot ✓ Grain yield Kg per ha ✓ Phosphorus content in grain in each plot after harvest ✓ Notes on pests, diseases and lodging ✓ Rainfall during the crop growth (Number of rainy days) ✓ Maximum and minimum temperature. ✓ Any other information

Trial No.54: Layout plan of entries in IVT-Low Phosphorus tolerance trial, Kharif 2024

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101 /5405	201/5412	301 /5421
102 /5407	202/5418	302 /5413
103 /5403	203/5420	303 /5420
104 /5411	204/5417	304 /5412
105 /5410	205/5419	305 /5419
106 /5406	206/5416	306 /5411
107 /5408	207/5422	307 /5418
108 /5402	208/5415	308 /5410
109 /5401	209/5423	309 5417
110 /5409	210/5414	310 /5408
111 /5404	211/5424	311 /5401
112/5421	212/5413	312/5425
113/5425	213 /5409	313/5409
114/5413	214 /5403	314/5424
115/5424	215 /5405	315/5407
116/5414	216 /5408	316/5423
117/5423	217 /5406	317/5406
118/5415	218 /5402	318/5422
119/5422	219 /5410	319/5405
120/5416	220 /5404	320/5402
121/5419	221 /5411	321/5416
122/5417	222 /5401	322/5404
123/5420	223 /5407	323/5415
124/5418	224/5425	324/5403
125/5412	225/5421	325/5414

- ❖ **P₅₀(50% of Phosphorous i.e.30kgP₂O₅/ha)**
- ❖ **P₁₀₀(100% of Phosphorous i.e.60kgP₂O₅/ha)**

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1	Trial No.	55
2	Name of the trial:	Advance Varietal Trial 2&1 – Low Nitrogen Tolerance Trial (AVT 2&1-LNT)
3	Objective:	To study the comparative performance of elite lines and cultivars for different levels of nitrogen
4	Locations:	10
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	<ul style="list-style-type: none"> • Phosphorus and Potash = Recommended Dose • Nitrogen = Two levels <ol style="list-style-type: none"> N 50 (50% of Nitrogen) i.e. 50 Kg/ha N 100 (100% of Nitrogen) i.e.100 Kg/ha
8	Plant protection:	Need based
9	Plot size:	Minimum: 5 sq m
10	Spacing:	Transplanting: <ul style="list-style-type: none"> ✓ 20 cm between rows ✓ 15 cm between plants
11	No. of entries:	27
12	Check varieties:	Positive Check : Varadhan, Rasi & Swarna; Susceptible Check : Improved Samba Mahsuri
13	General Instruction:	<ul style="list-style-type: none"> • Genotypes should be evaluated at Two levels of nitrogen N50 (50kg N/ha) and N 100 (100 kg N /ha) • Sow the seed in bed as thin as possible • Transplant 25-day old seedlings, one seedling / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly as per the trial • 50% of nitrogen at transplanting as basal dose and remaining 50% in two top dressings
14	Data to be collected:	<ul style="list-style-type: none"> • Soil Nitrogen content should be estimated before transplanting, 45 DAT and at harvesting stage • Days to 50% flowering • Plant height (cm) • Total Tiller Number per plant • Productive tiller per plant (No.) • Panicle length (cm) • No. of filled grains per panicle • Spikelet fertility percentage • Grain yield per plot • Grain yield Kg per ha • % nitrogen in grain • Nitrogen Use Efficiency • Notes on pests, diseases and lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature. • Any other information

Trial No.55: Layout plan of entries in AVT2&1- Low Nitrogen Tolerance trial, Kharif 2024

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101 /5505	201/5512	301 /5521
102 /5507	202/5518	302 /5513
103 /5503	203/5520	303 /5520
104 /5511	204/5517	304 /5512
105 /5510	205/5519	305 /5519
106 /5506	206/5516	306 /5511
107 /5508	207/5522	307 /5518
108 /5502	208/5515	308 /5510
109 /5501	209/5523	309 /5517
110 /5509	210/5527	310 /5526
111 /5504	211/5524	311 /5501
112/5521	212/5513	312/5525
113/5525	213 /5509	313/5509
114/5526	214 /5503	314/5524
115/5524	215 /5505	315/5507
116/5514	216 /5508	316/5523
117/5523	217 /5506	317/5527
118/5515	218 /5502	318/5522
119/5527	219 /5526	319/5505
120/5516	220 /5504	320/5502
121/5519	221 /5511	321/5516
122/5517	222 /5501	322/5504
123/5520	223 /5507	323/5515
124/5518	224/5525	324/5503
125/5512	225/5521	325/5514
126/5513	226/5510	326/5506
127/5522	227/5514	327/5508

NOTE: Same layout for two Levels of Nitrogen

- (i) N50(50%ofNitrogeni.e.50kgN/ha)
- (ii) N100(100%ofNitrogeni.e.100kgN/ha)

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Rajendranagar, Hyderabad –500030,Telangana
Kharif2024

1	Trial No.	57
2	Name of the trial:	Initial Variety Trial – Low Nitrogen Tolerance Trial (IVT-LNT)
3	Objective:	To study the comparative performance of elite lines and cultivars for different levels of nitrogen
4	Locations:	10
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	<ul style="list-style-type: none"> • Phosphorus and Potash = Recommended Dose • Nitrogen = Two levels I. N 50 (50% of Nitrogen) i.e. 50 Kg/ha II. N 100 (100% of Nitrogen) i.e.100 Kg/ha
8	Plant protection:	Need based
9	Plot size:	Minimum: 5 sq m
10	Spacing:	<ul style="list-style-type: none"> • Transplanting: ✓ 20 cm between row ✓ 15 cm between plants
11	No. of entries:	25
12	Check varieties:	Positive Check : Varadhan, Rasi & Swarna; DRR Dhan 64 Susceptible Check : Improved Samba Mahsuri
13	General Instruction:	<ul style="list-style-type: none"> • Genotypes should be evaluated at Two levels of nitrogen N50 (50kg N/ha) and N 100 (100 kg N /ha) • Sow the seed in bed as thin as possible • Transplant 25-day old seedlings, one seedling / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly as per the trial • 50% of nitrogen at transplanting as basal dose and remaining 50% in two top dressings
14	Data to be collected:	<ul style="list-style-type: none"> • Soil Nitrogen content should be estimated before transplanting, 45 DAT and at harvesting stage • Days to 50% flowering • Plant height (cm) • Total Tiller Number per plant • Productive tiller per plant (No.) • Panicle length (cm) • No. of filled grains per panicle • Spikelet fertility percentage <ul style="list-style-type: none"> • Grain yield per plot • Grain yield Kg per ha • % nitrogen in grain • Nitrogen Use Efficiency • Notes on pests, diseases and lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature. • Any other information

TrialNo.57: Layout plan of entries in IVT- Low Nitrogen tolerance trial, Kharif 2024

Replication 1 Plot No./Entry No.	Replication 2 Plot No./Entry No.	Replication 3 Plot No./Entry No.
101 /5705	201/5712	301 /5721
102 /5707	202/5718	302 /5713
103 /5703	203/5720	303 /5720
104 /5711	204/5717	304 /5712
105 /5710	205/5719	305 /5719
106 /5706	206/5716	306 /5711
107 /5708	207/5722	307 /5718
108 /5702	208/5715	308 /5710
109 /5701	209/5723	309 5717
110 /5709	210/5714	310 /5708
111/5704	211/5724	311 /5701
112/5721	212/5713	312/5725
113/5725	213 /5709	313/5709
114/5713	214 /5703	314/5724
115/5724	215 /5705	315/5707
116/5714	216 /5708	316/5723
117/5723	217 /5706	317/5706
118/5715	218 /5702	318/5722
119/5722	219 /5710	319/5705
120/5716	220 /5704	320/5702
121/5719	221 /5711	321/5716
122/5717	222 /5701	322/5704
123/5720	223 /5707	323/5715
124/5718	224/5725	324/5703
125/5712	225/5721	325/5714

NOTE: Same layout for two levels of Nitrogen

- (iii) **N₅₀(50%ofNitrogeni.e.50kgN/ha)**
- (iv) **N₁₀₀(100%ofNitrogeni.e.100kgN/ha)**

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Kharif 2024

1	Trial No.	58
2	Name of the trial:	Initial Varietal Trial - Coloured Rice (IVT – CR)
3	Objective:	To study the comparative performance of early coloured rice cultures in transplanted irrigated conditions
4	Locations:	21+Karaikal
5	Layout:	Rectangular Lattice Design
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection:	Need-based
9	Plot size:	10 sqm (This should be strictly followed)
10	Spacing:	20 cm between rows 15 cm between plants
11	No. of entries:	31
12	Check varieties:	Checks: Kauni, Jyothi, Choharto and Local Check
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Days to 50% flowering (DFF) • Plant height (cm) • Panicles per sq m (No.) • 100 gms of seed should be supplied to ICAR-IIRR for estimation of Zinc and Iron. • Photographs during crop growth may also be submitted. • Number of fertile & sterile spikelets / Panicle • Spikelet Fertility % (SPF) • Purity score: (UNI) • 1 = >95% pure; 2 = 80-95% pure; 3 = < 80% pure • Number of completely sterile plants, if any • Grain yield (kg/plot) based on net plot size to be reported • Observations on incidence of diseases/pests • Grain type • Notes on lodging • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
When the mean yield of the experiment is below 4 t/ha, kindly offer an comments for the low yield,		

**Trial No.58: Layout Plan of entries in Initial Varietal Trial- Coloured Rice
(IVT – CR),Kharif 2024**

REPLICATION-I

101 /5809	109 /5804	117 /5803	125 /5816
102 /5827	110 /5814	118 /5824	126 /5810
103 /5829	111 /5815	119 /5822	127 /5817
104 /5802	112 /5831 (LC)	120 /5820	128 /5811
105 /5821	113 /5819	121 /5823	129 /5818
106 /5805	114 /5801	122 /5812	130 /5830
107 /5808	115 /5806	123 /5825	131 /5807
108 /5828	116 /5813	124 /5826	-

REPLICATION-II

201 /5811	209 /5827	217 /5805	225 /5802
202 /5830	210 /5816	218 /5828	226 /5806
203 /5804	211 /5819	219 /5809	227 /5812
204 /5820	212 /5808	220 /5814	228 /5810
205 /5826	213 /5821	221 /5807	229 /5818
206 /5801	214 /5815	222 /5803	230 /5822
207 /5829	215 /5817	223 /5813	231 /5831 (LC)
208 /5825	216 /5823	224 /5824	-

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1	Trial No.	59
2	Name of the trial	Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2 & 1-NIL & Gel)
3	Objectives:	To study the comparative performance of elite cultures
4	Total Locations	41 (04 for Zone - II)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	63 (for Zone- II only 09 entries)
12	Check varieties:	Recurrent Parent and respective NIL entries were included
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Number of fertile and sterile spikelets/Panicles(mean of 5 panicles each entry) • Spikelet fertility • Purity score: (UNI) • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

Trial No. 59 : Layout plan of entries in Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2& 1-NIL & Gel)), Kharif 2024 (Zone – II)

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/5921	201/5957	301/5924
102/5922	202/5958	302/5955
103/5923	203/5959	303/5956
104/5924	204/5921	304/5957
105/5955	205/5922	305/5958
106/5956	206/5923	306/5959
107/5957	207/5924	307/5921
108/5958	208/5955	308/5922
109/5959	209/5956	309/5923

Note: Total No. of entries in the trial are 63; For Zone-II only 09 entries are included. Wherever missing numbers are found, those entries are not included for zone-II.

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Kharif 2024

1	Trial No.	59
2	Name of the trial	Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2 & 1-NIL & Gel)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	41 (09 for Zone -III)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	63 (for Zone- III only 40 entries)
12	Check varieties:	Recurrent Parent and respective NIL entries were included
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Number of fertile and sterile spikelets/Panicles(mean of 5 panicles each entry) • Spikelet fertility • Purity score: (UNI) • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

Trial No. 59 : Layout plan of entries in Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2& 1-NIL & Gel)), Kharif 2024 (Zone – III)

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/5901	201/5954	301/5946
102/5902	202/5901	302/5947
103/5903	203/5902	303/5953
104/5904	204/5903	304/5954
105/5905	205/5904	305/5901
106/5906	206/5905	306/5902
107/5907	207/5906	307/5903
108/5911	208/5907	308/5904
109/5912	209/5911	309/5905
110/5913	210/5912	310/5906
111/5914	211/5913	311/5907
112/5915	212/5914	312/5911
113/5916	213/5915	313/5912
114/5917	214/5916	314/5913
115/5918	215/5917	315/5914
116/5919	216/5918	316/5915
117/5920	217/5919	317/5916
118/5921	218/5920	318/5917
119/5922	219/5921	319/5918
120/5923	220/5922	320/5919
121/5924	221/5923	321/5920
122/5928	222/5924	322/5921
123/5929	223/5928	323/5922
124/5930	224/5929	324/5923
125/5931	225/5930	325/5924
126/5932	226/5931	326/5928
127/5933	227/5932	327/5929
128/5934	228/5933	328/5930
129/5935	229/5934	329/5931
130/5936	230/5935	330/5932
131/5937	231/5936	331/5933
132/5938	232/5937	332/5934
133/5939	233/5938	333/5935
134/5940	234/5939	334/5936
135/5941	235/5940	335/5937
136/5942	236/5941	336/5938
137/5946	237/5942	337/5939
138/5947	238/5946	338/5940
139/5953	239/5947	339/5941
140/5954	240/5953	340/5942

Note: Total No. of entries in the trial are 63; For Zone-III only 40 entries are included. Wherever missing numbers are found, those entries are not included for zone-III.

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1	Trial No.	59
2	Name of the trial	Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2 & 1-NIL & Gel)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	41 (04 for Zone - IV)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	63 (for Zone- IV only 04 entries)
12	Check varieties:	Recurrent Parent and respective NIL entries were included
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Number of fertile and sterile spikelets/Panicles(mean of 5 panicles each entry) • Spikelet fertility • Purity score: (UNI) • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

Trial No. 59 : Layout plan of entries in Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2& 1-NIL & Gel)), Kharif 2024 (Zone – IV)

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/5921	201/5924	301/5923
102/5922	202/5921	302/5924
103/5923	203/5922	303/5921
104/5924	204/5923	304/5922

Note: Total No. of entries in the trial are 63; For Zone-IV only 13 entries are included. Wherever missing numbers are found, those entries are not included for zone-IV.

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Kharif 2024

1	Trial No.	59
2	Name of the trial	Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2 & 1-NIL & Gel)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	41 (06 for Zone - V)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	63 (for Zone- V only 38 entries)
12	Check varieties:	Recurrent Parent and respective NIL entries were included
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Number of fertile and sterile spikelets/Panicles(mean of 5 panicles each entry) • Spikelet fertility • Purity score: (UNI) • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

**Trial No. 59 : Layout plan of entries in Advance Variety Trial 2 & 1 – NIL and GEL
(AVT 2& 1-NIL & Gel)), Kharif 2024 (Zone -V)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/5901	201/5953	301/5940
102/5902	202/5954	302/5941
103/5903	203/5901	303/5942
104/5904	204/5902	304/5953
105/5905	205/5903	305/5954
106/5906	206/5904	306/5901
107/5907	207/5905	307/5902
108/5911	208/5906	308/5903
109/5912	209/5907	309/5904
110/5913	210/5911	310/5905
111/5914	211/5912	311/5906
112/5915	212/5913	312/5907
113/5916	213/5914	313/5911
114/5917	214/5915	314/5912
115/5918	215/5916	315/5913
116/5919	216/5917	316/5914
117/5920	217/5918	317/5915
118/5921	218/5919	318/5916
119/5922	219/5920	319/5917
120/5923	220/5921	320/5918
121/5924	221/5922	321/5919
122/5928	222/5923	322/5920
123/5929	223/5924	323/5921
124/5930	224/5928	324/5922
125/5931	225/5929	325/5923
126/5932	226/5930	326/5924
127/5933	227/5931	327/5928
128/5934	228/5932	328/5929
129/5935	229/5933	329/5930
130/5936	230/5934	330/5931
131/5937	231/5935	331/5932
132/5938	232/5936	332/5933
133/5939	233/5937	333/5934
134/5940	234/5938	334/5935
135/5941	235/5939	335/5936
136/5942	236/5940	336/5937
137/5953	237/5941	337/5938
138/5954	238/5942	338/5939

Note: Total No. of entries in the trial are 63; For Zone-V only 38 entries are included. Wherever missing numbers are found, those entries are not included for zone-V.

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1	Trial No.	59
2	Name of the trial	Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2 & 1-NIL & Gel)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	41 (05 for Zone - VI)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	63 (for Zone- VI only 07 entries)
12	Check varieties:	Recurrent Parent and respective NIL entries were included
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Number of fertile and sterile spikelets/Panicles(mean of 5 panicles each entry) • Spikelet fertility • Purity score: (UNI) • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

**Trial No. 59 : Layout plan of entries in Advance Variety Trial 2&1 – NIL and GEL
(AVT 2& 1-NIL & Gel)), Kharif 2024 (Zone – VI)**

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/5908	201/5924	301/5921
102/5909	202/5908	302/5922
103/5910	203/5909	303/5923
104/5921	204/5910	304/5924
105/5922	205/5921	305/5908
106/5923	206/5922	306/5909
107/5924	207/5923	307/5910

Note: Total No. of entries in the trial are 63; For Zone-VI only 07 entries are included. Wherever missing numbers are found, those entries are not included for zone-VI.

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1	Trial No.	59
2	Name of the trial	Advance Variety Trial 2 & 1 – NIL and GEL (AVT 2 & 1-NIL & Gel)
3	Objectives:	To study the comparative performance of elite cultures under aerobic conditions
4	Total Locations	41 (13 for Zone - VII)
5	Layout:	Randomized Block Design (RBD)
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	15 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	63 (for Zone- VII only 58 entries)
12	Check varieties:	Recurrent Parent and respective NIL entries were included
13	General instructions	<ul style="list-style-type: none"> • Sow the seed in seedbed as thin as possible • Planting of 25 days old 2-3 seedling/hill • Transplant seedlings very shallow • 1-2 seedlings / hill. • Gap fill within a week of planting • Incorporate fertilizer evenly
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Number of fertile and sterile spikelets/Panicles(mean of 5 panicles each entry) • Spikelet fertility • Purity score: (UNI) • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

Trial No. 59 : Layout plan of entries in Advance Variety Trial 2&1 – NIL and GEL (AVT 2& 1-NIL & Gel)), Kharif 2024 (Zone – VII)

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/5901	201/5963	301/5960
102/5902	202/5901	302/5961
103/5903	203/5902	303/5962
104/5904	204/5903	304/5963
105/5905	205/5904	305/5901
106/5906	206/5905	306/5902
107/5907	207/5906	307/5903
108/5911	208/5907	308/5904
109/5912	209/5911	309/5905
110/5913	210/5912	310/5906
111/5914	211/5913	311/5907
112/5915	212/5914	312/5911
113/5916	213/5915	313/5912
114/5917	214/5916	314/5913
115/5918	215/5917	315/5914
116/5919	216/5918	316/5915
117/5920	217/5919	317/5916
118/5921	218/5920	318/5917
119/5922	219/5921	319/5918
120/5923	220/5922	320/5919
121/5924	221/5923	321/5920
122/5925	222/5924	322/5921
123/5926	223/5925	323/5922
124/5927	224/5926	324/5923
125/5928	225/5927	325/5924
126/5929	226/5928	326/5925
127/5930	227/5929	327/5926
128/5931	228/5930	328/5927
129/5932	229/5931	329/5928
130/5933	230/5932	330/5929
131/5934	231/5933	331/5930
132/5935	232/5934	332/5931
133/5936	233/5935	333/5932
134/5937	234/5936	334/5933
135/5938	235/5937	335/5934
136/5939	236/5938	336/5935
137/5940	237/5939	337/5936
138/5941	238/5940	338/5937
139/5942	239/5941	339/5938
140/5943	240/5942	340/5939
141/5944	241/5943	341/5940
142/5945	242/5944	342/5941
143/5948	243/5945	343/5942
144/5949	244/5948	344/5943
145/5950	245/5949	345/5944
146/5951	246/5950	346/5945
147/5952	247/5951	347/5948
148/5953	248/5952	348/5949
149/5954	249/5953	349/5950
150/5955	250/5954	350/5951
151/5956	251/5955	351/5952
152/5957	252/5956	352/5953
153/5958	253/5957	353/5954
154/5959	254/5958	354/5955
155/5960	255/5959	355/5956
156/5961	256/5960	356/5957
157/5962	257/5961	357/5958
158/5963	258/5962	358/5959

Note: Total No. of entries in the trial are 63; For Zone-VII only 58 entries are included. Wherever missing numbers are found, those entries are not included for zone-VII.

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1	Trial No.	60
2	Name of the trial	Initial Variety Trial – Irrigated dry DSR (IVT-DSR)
3	Objectives:	To study the comparative performance of mid-early duration elite cultures in irrigated areas
4	Total Locations	33
5	Layout:	Simple Lattice design
6	Replications:	3
7	Fertilizers:	As per the recommendation of the centre
8	Plant protection	Need based
9	Plot size	10 sq.m (This should be strictly followed)
10	Spacing	20 cm between rows, 15 cm between hills
11	Total No. of entries	57
12	Check varieties:	Irrigated early dry DSR: CR Dhan 320, DRRH (Early Hybrid Check), Shabhagidhan ; Irrigated medium dry DSR: DRR Dhan 55, DRR Dhan 70; Irrigated late dry DSR: DRR Dhan 50, CR Dhan 702 (Late Hybrid Check), Local Check
13	General instructions	<ul style="list-style-type: none"> • Sow the seed directly on field or Dibble 2 or 3 seeds / hill at shallow depth • Apply Pendamethalene herbicide @ 1 kg/ha a.i per hectare at near saturated condition within 2-3 days after sowing. • Apply bispyribac sodium @ 250 ml/ha at 2-3 leaf stage of weeds. • Maintain saturation condition and provide need based frequent irrigation. • Crop should not suffer due to drought. • There should not be more than one day standing water in field
14	Fertilizer Application	<ul style="list-style-type: none"> • Recommended dose of Nitrogen application in 3 splits (1/3 at 10-12 days after rice emergence, 1/3 at maximum tillering stage & 1/3 at panicle initiation stage). • Recommended dose of P & K can be applied basal. • Whenever Iron deficiency is seen foliar spray of 1.5% FeSO4 solution 2-3 times at weekly interval
15	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles/sq m • Days to 50% flowering • Notes on pests, diseases and lodging • Plant height (cm) • Spikelet fertility • Rainfall data and quantity of irrigation water • Maximum and minimum temperature • Number of irrigations given in relation to crop growth.
When the mean yield of the experiment is below 3 t/ha, kindly offer an explanation for the low yield.		

Note: We included two more entries i.e. 6056 & 6057. If you received instruction sheet upto entry no. 155 please add two entries 6056 & 6057 (156 & 157) in IVT DSR trial according to following instruction.

Trial No. 60 : Layout plan of entries in Initial Variety Trial - Initial Variety Trial – Irrigated dry DSR (IVT-DSR), Kharif 2024

Replication 1 Plot no/Entry No	Replication 2 Plot no/Entry No	Replication 3 Plot no/Entry No
101/6001	201/6045	301/6042
102/6002	202/6046	302/6043
103/6003	203/6047	303/6044
104/6004	204/6001	304/6045
105/6005	205/6002	305/6046
106/6006	206/6003	306/6047
107/6007	207/6004	307/6001
108/6008	208/6005	308/6002
109/6009	209/6006	309/6003
110/6010	210/6007	310/6004
111/6011	211/6008	311/6005
112/6012	212/6009	312/6006
113/6013	213/6010	313/6007
114/6014	214/6011	314/6008
115/6015	215/6012	315/6009
116/6016	216/6013	316/6010
117/6017	217/6014	317/6011
118/6018	218/6015	318/6012
119/6019	219/6016	319/6013
120/6020	220/6017	320/6014
121/6021	221/6018	321/6015
122/6022	222/6019	322/6016
123/6023	223/6020	323/6017
124/6024	224/6021	324/6018
125/6025	225/6022	325/6019
126/6026	226/6023	326/6020
127/6027	227/6024	327/6021
128/6028	228/6025	328/6022
129/6029	229/6026	329/6023
130/6030	230/6027	330/6024
131/6031	231/6028	331/6025
132/6032	232/6029	332/6026
133/6033	233/6030	333/6027
134/6034	234/6031	334/6028
135/6035	235/6032	335/6029
136/6036	236/6033	336/6030
137/6037	237/6034	337/6031
138/6038	238/6035	338/6032
139/6039	239/6036	339/6033
140/6040	240/6037	340/6034
141/6041	241/6038	341/6035
142/6042	242/6039	342/6036
143/6043	243/6040	343/6037
144/6044	244/6041	344/6038
145/6045	245/6042	345/6039
146/6046	246/6043	346/6040
147/6047	247/6044	347/6041
148/6048	248/6051	348/6050
149/6049	249/6052	349/6051
150/6050	250/6053	350/6052
151/6051	251/6048	351/6055
152/6052	252/6049	352/6048
153/6053	253/6050	353/6054
154/6054	254/6055	354/6049
155/6055	255/6054	355/6053
156/6056	256/6057	356/6056
157/6057	257/6056	357/6057

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Kharif 2024

1	Trial No.	61
2	Name of the trial	Special trial under CRP-Biofortification (Bench Mark Studies)
3	Objectives:	Evolution of popular rice varieties for Zinc, Protein, and Iron content
4	Total Locations	16
5	Layout:	Rectangular Lattice Design
6	Replications:	2
7	Fertilizers:	As per the recommendation of the centre (if zinc is not included in the POPs, apply zinc sulphate @ 25-50 kg/ha once in every 3 crop seasons, preferably in rabi). If the center has not applied the zinc sulphate in the last two years, apply in current season without fail.
8	Plant protection	Need based
9	Plot size	7 sq m (This should be strictly followed)
10	Spacing	20 x 15 cm
11	Total No. of entries	52
12	Check varieties:	BPT 5204, DRR Dhan 45, DRR Dhan 48 and Kalanamak Kiran
13	General instructions	<ul style="list-style-type: none"> • Sow the seedbed as thin as possible • Transplant 25-day old seedlings • Transplant seedlings very shallow • Gap fill within a week of planting. • Incorporate fertilizer evenly. • Soil samples up to 20 cm depth before planting to be collected and should be sent to IIRR before transplanting. Soil samples also should be collected after harvesting to be sent to IIRR for analysis for estimating Fe & Zn content.
14	Data to be collected:	<ul style="list-style-type: none"> • Grain yield (kg/plot) based on net plot size to be reported • Panicles per sq m (No.) • Days to 50% flowering (No.) • Plant height (cm) • Sterility percentage • Test Weight/ 1000 grain weight (g) • Notes on pests, diseases and lodging • Grain quality characteristics to be provided wherever facilities exist. • 50 gms of grains per entry in 2 replications after harvesting to be sent to IIRR for Fe and Zn analysis • Rainfall during the crop growth (Number of rainy days) • Maximum and minimum temperature.
When the mean yield of the experiment is below 4 t/ha, kindly offer an explanation for the low yield.		

**Trial No. 61: Layout plan of entries in Special trial under CRP-
Biofortification (Bench Mark Studies) Kharif 2024**

REPLICATION-I

101 /6130	114 /6114	127 /6117	140 /6120
102 /6134	115 /6105	128 /6149	141 /6101
103 /6148	116 /6136	129 /6107	142 /6121
104 /6127	117 /6150	130 /6106	143 /6108
105 /6110	118 /6142	131 /6139	144 /6124
106 /6116	119 /6119	132 /6132	145 /6126
107 /6145	120 /6111	133 /6104	146 /6125
108 /6137	121 /6140	134 /6102	147 /6113
109 /6135	122 /6129	135 /6122	148 /6115
110 /6109	123 /6133	136 /6151	149 /6103
111 /6123	124 /6118	137 /6143	150 /6152
112 /6138	125 /6112	138 /6146	151 /6141
113 /6144	126 /6147	139 /6131	152 /6128

REPLICATION-II

201 /6117	214 /6139	227 /6142	240 /6120
202 /6118	215 /6150	228 /6121	241 /6140
203 /6152	216 /6144	229 /6149	242 /6141
204 /6129	217 /6107	230 /6134	243 /6104
205 /6131	218 /6135	231 /6110	244 /6113
206 /6106	219 /6119	232 /6126	245 /6108
207 /6112	220 /6148	233 /6137	246 /6109
208 /6123	221 /6124	234 /6125	247 /6147
209 /6102	222 /6103	235 /6128	248 /6145
210 /6130	223 /6101	236 /6146	249 /6116
211 /6136	224 /6138	237 /6143	250 /6115
212 /6132	225 /6111	238 /6133	251 /6127
213 /6122	226 /6114	239 /6151	252 /6105

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1	Trial No.:	62
2	Name of the trial:	Advance Variety Trial 2 NIL & CSTVT - Coastal Saline Tolerant Variety Trial (AVT 2 NIL & CSTVT)
3	Objectives:	To evaluate comparative performance of promising elite cultures for Coastal Saline soils
4	Locations:	15
5	Layout:	Randomized Block Design (RBD)
6	Fertilizers:	As per the recommendation of the centre
7	Replications:	3
8	Entries:	11
9	Plot size:	15 sq m (This should be strictly followed)
10	Spacing	15 x 15 cm
11	Check varieties:	Coastal saline – Bhuthnath, Early duration saline Check -- CSR 10, Saline Tolerant Check- FL 478, Sensitive Check- Pusa 44 and Local check.
12	Special instructions:	Before land preparation, collect surface (0-30 cm depth) soil samples randomly from 10-15 spots from the experimental sites, air dry, mix and pass through 2 mm sieve, analyse the pH and EC at your centre and half of the sample send to IIRR.
13	General instructions:	<ul style="list-style-type: none"> • In coastal saline soils, the trial may be conducted in soils with electrical conductivity above 4 dSm⁻¹ and pH < 7. • Select a homogeneously coastal saline area for main field • Raise the nursery in normal soil and sow the nursery as thin as possible • Transplant seedlings shallow • Seedlings per hill: 2-3 • Gap fill within a week of planting after recording the mortality of the seedlings • Transplant 30 days old seedlings & incorporate fertilizer evenly • No soil amendment or high doses of fertilizer to be added
14	Data to be collected:	<ul style="list-style-type: none"> • Soil characteristics: For coastal saline soils, pH and EC to be determined at 3 stages of crop growth i.e., 1) Before puddling/transplanting, 2) Maximum tillering and 3) Flowering in 0-15 & 15-30 cm soil depth. Soil characteristics may be determined from 2 replications only. • EC and pH data of irrigation water/inundation water. • Water depth and duration of water during crop growth • Seedling survival percentage • Grain yield (kg/plot) based on net plot size to be reported • Days to 50% flowering & Plant height (cm) • Phenotypic acceptability • Reaction to pests and diseases • Rainfall during crop growth (Number of rainy days) • Maximum & minimum temperature
When the mean yield of the experiment is below 2 t/ha, kindly offer an explanation for the low yield.		

NB:

i) Without the data on pH & EC at three stages of crop growth, data will not be considered.

ii) Since very frequently trials of CSTVT are getting inundated, which is typical of this ecology, data on the survived entries will be useful. Therefore please record data.

iii) It is requested that trial be conducted as per the technical program and record data properly. Many a time, data from several centres is not considered in the past due to poor conduct of trials. Therefore you are requested to conduct the trial to generate meaningful data.

**Advance Variety Trial 2 NIL & CSTVT - Coastal Saline Tolerant Variety Trial
(AVT 2 NIL & CSTVT)**

Replication 1 Plot No. / Entry No.	Replication 2 Plot No. / Entry No.	Replication 3 Plot No. / Entry No.
101/6201	201/6208	301/6205
102/6202	202/6209	302/6206
103/6203	203/6201	303/6207
104/6204	204/6202	304/6208
105/6205	205/6203	305/6209
106/6206	206/6204	306/6201
107/6207	207/6205	307/6202
108/6208	208/6206	308/6211
109/6209	209/6207	309/6210
110/6210	210/6211	310/6203
111/6211	211/6210	311/6204



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