

### Appendix-1: Grain Yield (kg/ha) of hybrids in IHRT-Early, Kharif 2019

S No.	IET No.	Name	Zone-I	Zone-II					Zone-III (contd)				
			MLN	KUL	PNT	LDN	IAR	Northern Mean	MSD	@ ALH	NZV	NGN	UP Mean
1	28111	LP-19201	7438(4)	6067(5)	8096(1)	6674(10)	10030(1)	7717	5006(5)	8167(1)	8598	6425(9)	6676
2	28112	RRX-566	5076	5067	5036	5407	8438(2)	5987	4130	6863(3)	6270	3296	4565
3	28113	LP-18204	8066(2)	5433(8)	7245(5)	7389(5)	7795(7)	6966	5173(3)	6600(5)	9161(7)	7885(1)	7406
4	28114	RRX-719	5739	4600	4852	7796(3)	4880	5532	4339	6700(4)	9705(3)	7635(2)	7226
5	28115	US-317	9158(1)	5200(10)	6376(9)	6678(9)	8152(5)	6602	3755	5967	9393(5)	6675(7)	6608
6	28116	WGRH-18	5214	5133	5329	4289	8187(4)	5734	4526(9)	5500	8779(10)	6341(10)	6549
7	28117	NPH-X4	7861(3)	5467(7)	6268(10)	7048(8)	8434(3)	6804	4693(8)	6167	9885(1)	4297	6292
8	28118	MR-8222	5691	6100(4)	6912(7)	8963(1)	6427	7100	3588	5333	8967(8)	4130	5562
9	28119	HRI-201	5489	4267	7313(3)	7178(7)	7721(8)	6620	3880	6467(7)	9844(2)	7009(3)	6911
10	28120	RH-169035	6261	5400	6534(8)	7537(4)	6503	6494	3212	6133	9172(6)	6466(8)	6284
11	28121	ARRH-23664	7086(6)	5833(6)	5853	4848	6781	5829	5298(1)	5533	8836(9)	3963	6033
12	28122	RH-169269	7152(5)	6467(2)	7229(6)	7222(6)	7035	6988	4881(6)	5433	9648(4)	6800(6)	7110
13	28123	IIRRH-130	6042	6600(1)	5918(10)	6000	6381	6225	5111(4)	6067	7803	6842(5)	6585
14	28124	CRHR-105	4750		7731(2)	6289	9048	7689	4026	6367(8)	8213	6884(4)	6374
15	28125	CRHR-106	5506		6935(6)	6337	5782	6351	5236(2)	6533(6)	8246	5966	6482
16	US-314 (NCH)		6482(8)	6100(3)	7254(4)	6567	7877(6)	6949	3922	7300(2)	8607	5882	6137
17	CO-51 (NCV)		3954	5167	4934	3489	7130	5180	3755	5933	6311	5173	5080
18	PR-124/Luit/NDR-97/ Sahbhagidhan/ MTU-1153 (ZCV)		5810	5000	5150	6319	7628(9)	6024	4714(7)	6200	3328	4005	4016
19	Local Check Variety (LCV)		6521(7)	5133	3738	8430(2)	5492	5698	3317	5100	6675	5841	5277
Exp. Mean			6279	5473	6248	6551	7354	6447	4345	6230	8286	5869	6167
CD(0.05)			1150.1	535.67	1106.92	926	1340.9		656.78	384.19	1759.37	701.89	
CV			11.1	5.93	10.99	8.57	11.25		9.16	3.74	10.1	7.25	
D/S			10.6.19	21.6.19	1.6.19	31.5.19	21.6.19		29.6.19	20.6.19		24.6.19	
D/P			9.7.19	19.7.19	1.7.19	30.6.19	28.7.19		25.7.19	15.7.19		19.7.19	
Gross Plot Size (Sq.m)			4.59	10.0	11.4	9.0	10.0		10.0		10.0		
Net Plot Size (Sq.m)			4.59	10.0	8.76	7.25	10.0		7.99				
Zonal Check Variety			PR-124	PR-124	PR-124	PR-124	PR-124		NDR-97	NDR-97	NDR-97	NDR-97	
Local Check Variety				HKR-48	Govind	PR-126	IR-64		NDR-97	NDR-359			

Note: Data of ALH (Allahabad) not included in the analysis due to low CV

**Appendix-1 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-III								Zone-IV		
			@ PSA	SYN	BH Mean	@ RCI	TMT	JH Mean	CHN	Eastern Mean	TTB	ARD	North-Eastern Mean
1	28111	LP-19201	3467	8097(2)	8097	5346(1)	5988(1)	5988	8698(1)	7135	5500(4)	4765(10)	5132
2	28112	RRX-566	4133(3)	7687(6)	7687	4043(7)	3532	3532	6253	5195	4933	3245	4089
3	28113	LP-18204	3267	8125(1)	8125	5211(2)	5198(7)	5198	6112	6942	5333(7)	5335(4)	5334
4	28114	RRX-719	4333(2)	6957	6957	3639	4438	4438	6347	6570	5317(8)	5111(7)	5214
5	28115	US-317	3133	7905(5)	7905	3369	5309(6)	5309	7945(2)	6830	5367(5)	5284(5)	5325
6	28116	WGRH-18	3733(6)	7536(8)	7536	4447(4)	4397	4397	7146(7)	6454	3883	5427(2)	4655
7	28117	NPH-X4	3600(7)	5836	5836	4897(3)	4918(9)	4918	7804(3)	6239	4517	5223(6)	4870
8	28118	MR-8222	3133	7665(7)	7665	4178(5)	5326(5)	5326	7475(4)	6192	4950(10)	5401(3)	5176
9	28119	HRI-201	3867(5)	6873	6873	3684	3844	3844	7428(5)	6480	5667(2)	4775(9)	5221
10	28120	RH-169035	3533	7994(4)	7994	3908(8)	5505(3)	5505	6911(8)	6543	5350(6)	4401	4875
11	28121	ARRH-23664	3600(8)	6111	6111	4178(6)	5463(4)	5463	5736	5901	4300	5826(1)	5063
12	28122	RH-169269	3267	7510(10)	7510	3863(9)	5133(8)	5133	7193(6)	6861	6000(1)	4487	5243
13	28123	IIRRH-130	4600(1)	7521(9)	7521	3369	5660(2)	5660	5783	6453	4750	4747	4748
14	28124	CRHR-105	3000	6065	6065	2201	2935	2935	6723(9)	5808	5533(3)	4194	4864
15	28125	CRHR-106	3867(4)	5818	5818	2875	4113	4113	5924	5884	4850	3999	4424
16	US-314 (NCH)		3533	8000(3)	8000	3729(10)	4165	4165	6018	6099	5083(9)	4996(8)	5040
17	CO-51 (NCV)		3200	7317	7317	3279	3927	3927	5360	5307	3333	4163	3748
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		3467	3192	3192	1932	2856	2856	6018	4019	3717	4230	3973
19	Local Check Variety (LCV)		2667	6869	6869	1932	3549	3549	5736	5331	3850	4214	4032
Exp. Mean			3547	7004	7004	3688	4540	4540	6664	6118	4854	4728	4791
CD(0.05)			1327.89	783.52		1145.48	831.88		685		616.48	540.4	
CV			22.68	6.78		18.82	11.1		6.23		7.7	6.93	
D/S			28.6.19	27.6.19		27.6.19	20.6.19		20.6.19		12.7.19	15.7.19	
D/P			29.7.19	25.7.19		16.8.19	12.7.19		26.7.19		9.8.19	14.8.19	
Gross Plot Size(Sq.m)			7.5	10.0		10.08	12.6		8.79			12.5	
Net Plot Size (Sq.m)			5.0	10.0		7.42	10.8		7.09			12.5	
Zonal Check Variety			NDR-97	NDR-97		NDR-97	NDR-97		NDR-97		Luit	Luit	
Local Check Variety			R. BHAGWATI	PANT-12		BVD-110	BVD-107		AJIT		LUIT		

**Note:** Data of PSA (Pusa) and RCI (Ranchi) not included in the analysis due to low experimental mean

**Appendix-1(contd): Grain Yield (kg/ha) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	Zone-V								Zone-VI (contd)		
			JBP	RPR	@ ADV	VNR	CH Mean	@ SND	SKL	ANK	Central Mean	KJT	VDG
1	28111	LP-19201	7866(2)	9497(1)	9536(2)	7519(3)	8508	3388	6212(7)	6721(3)	7563	6091(9)	7513(1)
2	28112	RRX-566	6885(10)	6353	7052	6231(9)	6292	3550	5215	4692	5875	5528	6017
3	28113	LP-18204	6727	8033(10)	7848(9)	7166(4)	7600	3867	6245(5)	6736(2)	6981	5595	7209(2)
4	28114	RRX-719	7321(4)	8200(9)	7540	5362	6781	4155(5)	5891(10)	4665	6288	5580	6884(3)
5	28115	US-317	6730	8897(2)	8247(5)	3855	6376	4139(7)	5882	5733(9)	6219	5002	6252(8)
6	28116	WGRH-18	7107(8)	8270(7)	8077(8)	5834	7052	4597(2)	6617(3)	6049(6)	6775	5706	6881(4)
7	28117	NPH-X4	6128	7913	8123(7)	6248(8)	7081	4564(3)	5874	4136	6060	5039	6366(7)
8	28118	MR-8222	6190	8713(4)	7513	7590(2)	8152	3642	6571(4)	6089(5)	7031	5476	6800(5)
9	28119	HRI-201	7177(7)	8300(6)	8858(3)	5818	7059	3317	6955(2)	5695(10)	6789	7929(1)	5809
10	28120	RH-169035	6773	8667(5)	7729(10)	6522(7)	7594	3834	5682	4714	6472	6447(6)	6653(6)
11	28121	ARRH-23664	6903(9)	7567	8187(6)	3337	5452	4443(4)	7818(1)	7279(1)	6581	5002	6167(10)
12	28122	RH-169269	7449(3)	8817(3)	9554(1)	8033(1)	8425	3717	5953(8)	5747(8)	7200	6336(7)	6196(9)
13	28123	IIRRH-130	7204(5)	8247(8)	7463	6015	7131	3438	6216(6)	6028(7)	6742	6603(5)	5537
14	28124	CRHR-105	6651	3597	7118	4672	4134	4147(6)	4685	5082	4937	6929(2)	5179
15	28125	CRHR-106	8458(1)	6867	6774	6161(10)	6514	3450	5060	4236	6156	5010	5254
16	US-314 (NCH)		6629	7170	8270(4)	6848(6)	7009	4802(1)	5411	6239(4)	6460	6003(10)	6108
17	CO-51 (NCV)		5888	4990	5991	2926	3958	3488	3759	5300	4573	6262(8)	4654
18	PR-124/Luit/NDR-97/ Sahbhagidhan/ MTU-1153 (ZCV)		7202(6)	6560	6175	6960(5)	6760	3383	5912(9)	4420	6211	6607(4)	5186
19	Local Check Variety (LCV)		4571	6667	6767	5961	6314	3742	4364	5044	5321	6632(3)	5856
Exp. Mean			6835	7543	7727	5950	6747	3877	5806	5506	6328	5988	6133
CD(0.05)			465.54	940.25	477.01	970.87		557.66	1366.83	805.65		915.72	704.39
CV			4.13	7.55	2.94	9.89		8.72	14.27	8.92		9.27	6.96
D/S			27.6.19	22.6.19	24.6.19	7.6.19		25.6.19	25.6.19	25.6.19		14.6.19	12.6.19
D/P			13.7.19	17.7.19	16.7.19	2.7.19		18.7.19	19.7.19	27.7.19		11.7.19	10.7.19
Gross Plot Size (Sq.m)			10.0	10.0	12.0			10.0	10.0	10.8		8.17	12.6
Net Plot Size (Sq.m)			7.99		10.0	9.72		7.99	7.99	8.19		5.87	10.14
Zonal Check Variety			Sahbhagi dhan	Sahbhagi dhan	Sahbhagi dhan	Sahbhagi dhan		Sahbhagi dhan	Sahbhagi dhan	Sahbhagi dhan		Sahbhagi dhan	Sahbhagi dhan
Local Check Variety			JR-201	I.B DHAN-1		MTU-1010		SYE-1	SAKOLI-6	SKL-6		KARJAT-3	

Note: Data of and SND (Sindewahi) not included in the analysis due to low experimental mean; Data of ADV (Advanta) included in the analysis due to low CV

**Appendix-1(contd): Grain Yield (kg/ha) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VI							Zone-VII (contd)			
			RDN	MH Mean	@ NWG	NVS	@ DBI	GJ Mean	Western Mean	MTU	BAY	AP Mean	IIRR
1	28111	LP-19201	6706(2)	6649	2419	6272(2)	4520(3)	6272	6646	7586(1)	6933(3)	7260	
2	28112	RRX-566	3746	5040	3113(3)	4608(9)	3062	4608	4975	4595(7)	3150	3873	5157(7)
3	28113	LP-18204	7062(1)	6569	2555(10)	6596(1)	2879	6596	6615	4675(6)	7083(2)	5879	4133
4	28114	RRX-719	4716	5547	1871	3948	2588	3948	5282	3143	5683	4413	7018(1)
5	28115	US-317	4430	5460	2644(9)	4778(7)	2843	4778	5115	3224	6800(4)	5012	5184(6)
6	28116	WGRH-18	5195(5)	6090	3255(2)	4176	3190	4176	5490	3719	6448(7)	5084	4839
7	28117	NPH-X4	4884(8)	5260	3091(4)	4725(8)	2935	4725	5254	4874(4)	6104(10)	5489	5097(9)
8	28118	MR-8222	4030	5793	1560	4552	2882	4552	5215	3715	7817(1)	5766	5602(4)
9	28119	HRI-201	4415	6160	1744	4920(5)	1987	4920	5768	3704	6490(6)	5097	5779(2)
10	28120	RH-169035	4965(7)	5692	1065	5154(3)	1951	5154	5805	3086	4483	3785	4349
11	28121	ARRH-23664	4323	6118	2843(7)	4571(10)	2801	4571	5016	4080	6617(5)	5348	5477(5)
12	28122	RH-169269	5232(4)	5893	2669(8)	4821(6)	2834	4821	5646	4467(8)	5600	5034	5082(10)
13	28123	IIRRH-130	4267	5730	2217	2716	6056(2)	2716	4781	2228	6063	4146	5760(3)
14	28124	CRHR-105	3733	5122	2956(6)	2870	3797(5)	2870	4678		4650	4650	
15	28125	CRHR-106	5126(6)	4937	3069(5)	3102	3670(6)	3102	4623	4813(5)	3867	4340	
16	US-314 (NCH)		5825(3)	5917	2061	5049(4)	3667(7)	5049	5746	2714	4333	3524	4923
17	CO-51 (NCV)		4101	4815	1940	2769	2294	2769	4446	3693	3451	3572	4392
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		4301	5285	3290(1)	3348	6634(1)	3348	4861	6980(3)	6351(9)	6665	5154(8)
19	Local Check Variety (LCV)		3741	5128	2221	2868	4163(4)	2868	4774	7007(2)	6383(8)	6695	3861
Exp. Mean			4779	5642	2452	4307	3408	4307	5302	4350	5700	5033	5113
CD(0.05)			1111.12		1006.95	888.55	307.98			591.2	733.65		1699.22
CV			14.09		19.54	12.5	5.48			8.69	7.8		19.93
D/S			17.6.19		19.6.19	19.6.19	7.6.19			5.7.19	1.7.19		14.6.19
D/P			17.7.19		16.7.19	8.7.19	15.7.19			29.7.19	24.7.19		6.8.19
Gross Plot Size (Sq.m)			9.18		7.92	12.24	12.96			10.56	12.0		8.44
Net Plot Size (Sq.m)			6.75		5.94	8.55	10.2			8.10	10.0		6.73
Zonal Check Variety			Sahbhagidhan		Sahbhagidhan	Sahbhagidhan	Sahbhagidhan			MTU-1153	MTU-1153		MTU-1153
Local Check Variety			Phule Radha		Mahisagar	GR-7	GR-11			MTU-1156	MTU-1010		Rasi

Note: Data of NWG (Nawagam) and DBI (Dabhoi) not included in the analysis due to low experimental mean

**Appendix-1 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VII										Over all Mean
			WGL	TS Mean	MND	BRM	@ MGD	KA Mean	CBT	ADT	TN Mean	Southern Mean	
1	28111	LP-19201	8062(1)	8062	8900	5576(1)	7812(5)	7238	8180(4)	8460(1)	8320	7671	7223
2	28112	RRX-566	5575	5366	9013	3848	5750	6431	5979	4944	5462	5283	5330
3	28113	LP-18204	7794(2)	5963	9162	4333(8)	6395	6748	7934(6)	6423(10)	7178	6442	6705
4	28114	RRX-719	3283	5150	9128	5091(4)	7583(6)	7110	9193(2)	7259(3)	8226	6225	6003
5	28115	US-317	6446(8)	5815	10523(4)	4545	7300(7)	7534	7745(9)	7037(4)	7391	6438	6342
6	28116	WGRH-18	6676(5)	5758	9249	5121(3)	5183	7185	9362(1)	5963	7663	6422	6113
7	28117	NPH-X4	5966	5532	10714(3)	3909	9250(2)	7312	7819(7)	6623(7)	7221	6388	6156
8	28118	MR-8222	7576(3)	6589	9018	4364(7)	9680(1)	6691	7110	7457(2)	7284	6582	6342
9	28119	HRI-201	5414	5597	10145(5)	4000	8368(4)	7072	7420(10)	6469(9)	6945	6178	6257
10	28120	RH-169035	6662(6)	5506	10133(6)	3758	7175(8)	6946	8136(5)	5528	6832	5767	6099
11	28121	ARRH-23664	6007(10)	5742	9840(7)	3667	8656(3)	6753	8786(3)	6685(6)	7736	6395	6002
12	28122	RH-169269	7083(4)	6083	10886(2)	4606(5)	6292	7746	7819(8)	6133	6976	6459	6567
13	28123	IIRRH-130	6537(7)	6149	8890	4273(9)	6000	6581	5665	6407	6036	5728	5927
14	28124	CRHR-105	3861	3861	7349	3697	4875	5523	5840	5120	5480	5086	5419
15	28125	CRHR-106	4596	4596	8048	5242(2)	4108	6645	4873	5228	5051	5238	5523
16	US-314 (NCH)		5613	5268	11533(1)	3909	7167(9)	7721	7362	6611(8)	6987	5875	6108
17	CO-51 (NCV)		5780	5086	8921	3303	3873	6112	5265	6994(5)	6130	5225	4882
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		6099(9)	5626	8401	3697	6292	6049	5432	5914	5673	6003	5350
19	Local Check Variety (LCV)		5780	4821	7513	4061	3388	5787	7165	5759	6462	5941	5420
Exp. Mean			6043	5609	9335	4263	6587	6799	7215	6369	6792	6071	5988
CD(0.05)			1217.34		1252.42	915.24	4860.8		1054.38	1381.29			
CV			10.44		8.13	10.21	35.11		8.86	13.14			
D/S			8.7.19			17.6.19	7.6.19		3.7.19	24.6.19			
D/P			7.8.19			11.7.19			26.7.19	24.7.19			
Gross Plot Size (Sq.m)			10.56			10.0	6.0		9.9	12.6			
Net Plot Size (Sq.m)			9.03			8.25	6.0		8.1	10.8			
Zonal Check Variety			MTU-1153		MTU-1153	MTU-1153	MTU-1153		MTU-1153	MTU-1153			
Local Check Variety			KNM-118		Raksha	Mahaveera	Prasanna						

Note: Data of MGD (Mugad) not included in the analysis due to high CV

**Appendix-2: Days to 50% Flowering (DFF) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	Zone-I	Zone-II					Zone-III (contd)				
			MLN	KUL	PNT	LDN	IAR	Northern Mean	MSD	@ ALH	NZV	NGN	UP Mean
1	28111	LP-19201	103	93	99	101	90	96	87	88	101	96	94
2	28112	RRX-566	85	85	91	91	77	86	75	86	98	90	88
3	28113	LP-18204	103	90	94	92	82	90	92	88	104	89	95
4	28114	RRX-719	95	88	92	86	76	86	85	88	101	92	93
5	28115	US-317	99	87	94	88	76	86	91	89	101	90	94
6	28116	WGRH-18	103	96	100	101	87	96	92	89	105	96	98
7	28117	NPH-X4	101	88	95	91	84	90	93	89	98	90	94
8	28118	MR-8222	103	89	94	91	81	89	92	90	103	93	96
9	28119	HRI-201	97	90	93	97	80	90	91	89	104	95	97
10	28120	RH-169035	102	90	95	97	78	90	93	89	101	95	96
11	28121	ARRH-23664	98	86	91	87	74	84	84	85	100	87	91
12	28122	RH-169269	98	87	94	92	82	89	86	89	102	91	93
13	28123	IIRRH-130	98	96	103	104	94	99	96	92	101	101	99
14	28124	CRHR-105	101		96	102	86	95	80	87	97	94	90
15	28125	CRHR-106	100		95	99	85	93	102	86	100	94	99
16	US-314 (NCH)		95	91	96	101	87	94	85	86	101	92	93
17	CO-51 (NCV)		88	79	89	88	79	84	84	88	95	85	88
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		103	96	106	100	89	98	98	88	85	80	88
19	Local Check Variety (LCV)		100	96	88	91	84	89	75	96	98	104	92
Exp. Mean			99	90	95	95	83	91	89	89	100	92	94

**Appendix-2 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-III								Zone-IV		
			@ PSA	SYN	BH Mean	@ RCI	TMT	JH Mean	CHN	Eastern Mean	TTB	ARD	North-Eastern Mean
1	28111	LP-19201	93	93	93	127	90	90	97	94	87	93	90
2	28112	RRX-566	86	83	83	124	77	77	81	84	78	89	84
3	28113	LP-18204	92	94	94	125	89	89	90	93	81	93	87
4	28114	RRX-719	88	88	88	120	85	85	85	89	79	94	87
5	28115	US-317	96	85	85	123	85	85	82	89	79	92	85
6	28116	WGRH-18	91	98	98	128	90	90	99	97	89	98	94
7	28117	NPH-X4	95	91	91	127	83	83	96	92	82	93	88
8	28118	MR-8222	96	93	93	128	89	89	97	95	86	93	90
9	28119	HRI-201	94	95	95	122	86	86	89	93	85	94	90
10	28120	RH-169035	90	93	93	124	87	87	98	94	86	94	90
11	28121	ARRH-23664	90	85	85	125	84	84	84	87	84	87	86
12	28122	RH-169269	92	91	91	123	86	86	89	91	79	93	86
13	28123	IIRRH-130	94	98	98	126	82	82	98	96	83	94	88
14	28124	CRHR-105	96	88	88	124	88	88	81	88	85	93	89
15	28125	CRHR-106	102	90	90	127	86	86	83	93	85	89	87
16	US-314 (NCH)		86	91	91	125	78	78	87	89	84	92	88
17	CO-51 (NCV)		84	85	85	122	76	76	86	85	77	89	83
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		81	77	77	112	74	74	78	82	70	93	82
19	Local Check Variety (LCV)		105	101	101	107	81	81	88	91	76	91	84
Exp. Mean			92	90	90	123	84	84	89	91	82	92	87

**Appendix-2 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	Zone-V									Zone-VI (contd)	
			JBP	RPR	@ ADV	VNR	CH Mean	@ SND	SKL	ANK	Central Mean	KJT	VDG
1	28111	LP-19201	93	90	85	94	92	91	86	88	90	87	112
2	28112	RRX-566	87	83	74	82	83	86	76	83	82	87	95
3	28113	LP-18204	90	88	80	87	87	86	84	84	87	88	102
4	28114	RRX-719	88	86	77	83	85	84	80	84	84	83	99
5	28115	US-317	88	88	74	85	86	89	80	82	85	84	96
6	28116	WGRH-18	91	91	83	93	92	93	91	88	91	86	105
7	28117	NPH-X4	90	91	78	85	88	87	83	83	86	85	100
8	28118	MR-8222	89	90	80	88	89	93	86	84	87	85	107
9	28119	HRI-201	92	93	77	85	89	91	82	84	87	90	101
10	28120	RH-169035	91	89	84	90	90	90	88	82	88	93	101
11	28121	ARRH-23664	89	84	79	84	84	86	80	80	83	84	90
12	28122	RH-169269	88	87	77	97	92	88	81	85	88	81	99
13	28123	IIRRH-130	88	90	80	91	91	90	83	92	89	93	99
14	28124	CRHR-105	90	89	79	85	87	78	83	90	87	88	98
15	28125	CRHR-106	89	91	80	89	90	88	86	89	89	93	97
16	US-314 (NCH)		90	90	79	86	88	90	80	86	87	86	98
17	CO-51 (NCV)		87	84	72	91	88	85	78	88	85	84	93
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		113	114	110	121	118	78	80	102	106	86	114
19	Local Check Variety (LCV)		78	87	70	86	87	93	72	91	83	88	106
Exp. Mean			90	90	80	90	90	88	82	87	88	87	101

**Appendix-2 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VI							Zone-VII (contd)			
			RDN	MH Mean	@ NWG	NVS	@ DBI	GJ Mean	Western Mean	MTU	BAY	AP Mean	IIRR
1	28111	LP-19201	107	96	92	89	94	89	99	89	115	102	
2	28112	RRX-566	106	89	91	78	86	78	91	99	106	102	86
3	28113	LP-18204	110	94	87	81	89	81	95	81	111	96	77
4	28114	RRX-719	107	91	90	77	86	77	91	77	111	94	87
5	28115	US-317	103	89	90	83	86	83	92	79	106	93	84
6	28116	WGRH-18	112	96	95	89	95	89	98	88	116	102	96
7	28117	NPH-X4	101	90	89	76	87	76	91	86	111	99	88
8	28118	MR-8222	108	94	91	78	91	78	95	87	115	101	94
9	28119	HRI-201	102	92	91	82	89	82	94	85	112	99	93
10	28120	RH-169035	107	94	92	80	92	80	95	86	116	101	80
11	28121	ARRH-23664	107	88	89	75	86	75	89	84	112	98	87
12	28122	RH-169269	102	89	91	77	88	77	90	80	112	96	78
13	28123	IIRRH-130	102	94	94	85	96	85	95	87	114	101	93
14	28124	CRHR-105	104	93	89	78	91	78	92		111	111	
15	28125	CRHR-106	108	95	90	78	98	78	94	78	106	92	
16	US-314 (NCH)		106	91	91	83	92	83	93	80	105	93	82
17	CO-51 (NCV)		110	90	88	75	86	75	91	73	105	89	82
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		107	98	113	112	93	112	105	82	111	97	85
19	Local Check Variety (LCV)		111	93	90	82	96	82	97	82	115	98	81
Exp.Mean			106	92	92	82	91	82	94	83	111	98	86

**Appendix-2 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VII										Over all Mean
			WGL	TS Mean	MND	BRM	@ MGD	KA Mean	CBT	ADT	TN Mean	Southern Mean	
1	28111	LP-19201	95	95	94	95	101	94	101	106	103	99	95
2	28112	RRX-566	86	86	82	86	74	84	84	93	89	90	87
3	28113	LP-18204	89	83	96	91	99	94	99	104	101	94	92
4	28114	RRX-719	79	83	92	92	99	92	96	105	101	92	89
5	28115	US-317	79	82	94	91	97	92	98	103	101	92	89
6	28116	WGRH-18	98	97	94	94	93	94	107	107	107	100	97
7	28117	NPH-X4	85	87	96	92	100	94	100	106	103	96	91
8	28118	MR-8222	93	94	98	92	101	95	101	106	104	98	93
9	28119	HRI-201	91	92	95	95	100	95	99	100	100	96	93
10	28120	RH-169035	90	85	96	88	96	92	100	105	103	95	93
11	28121	ARRH-23664	89	88	94	89	99	91	98	102	100	94	89
12	28122	RH-169269	81	80	95	92	105	93	99	102	101	92	90
13	28123	IIRRH-130	92	92	81	91	96	86	88	102	95	93	94
14	28124	CRHR-105	85	85	94	93	106	93	72	102	87	93	91
15	28125	CRHR-106	85	85	95	92	100	93	100	101	100	94	92
16	US-314 (NCH)		90	86	81	89	82	85	86	96	91	89	90
17	CO-51 (NCV)		83	82	85	88	91	87	85	94	90	87	86
18	PR-124/Luit/NDR-97/ Sahbhagidhan/MTU-1153 (ZCV)		92	89	90	92	99	91	98	100	99	94	95
19	Local Check Variety (LCV)		93	87	79	92	86	86	83	95	89	90	90
Exp. Mean			88	87	91	91	96	91	94	101	98	94	91

**Appendix-3: Quality Characteristics of hybrids in IHRT-Early, Kharif 2019**

Sl. No	IET No	Name	HULL	MILL	HRR	KL	KB	L/B	Grain Type	Grain Chalk	ASV	AC	GC
1	28111	LP-19201	79.5	68.9	43.3	6.90	2.12	3.25	LS	VOC	3.0	23.76	63
2	28112	RRX-566	77.8	70.4	52.2	5.91	2.12	2.78	MS	A	5.4	21.67	43
3	28113	LP-18204	78.6	70.3	56.7	6.78	1.97	3.44	LS	A	7.0	23.29	35
4	28114	RRX-719	79.8	68.8	49.5	7.01	2.07	3.38	LS	VOC	3.0	19.06	93
5	28115	US-317	79.7	69.1	47.2	5.91	2.34	2.52	MS	VOC	3.0	21.41	61
6	28116	WGRH-18	79.8	70.3	61.2	7.03	2.07	3.39	LS	VOC	4.5	23.02	59
7	28117	NPH-X4	77.4	68.3	58.6	5.99	2.41	2.48	SB	VOC	4.0	26.28	47
8	28118	MR-8222	79.1	69.6	53.4	5.79	2.35	2.46	SB	VOC	3.0	23.73	59
9	28119	HRI-201	80.3	68.6	50.1	6.83	2.12	3.22	LS	VOC	4.7	25.98	60
10	28120	RH-169035	79.9	68.9	49.2	6.98	2.11	3.30	LS	VOC	5.0	16.66	100
11	28121	ARRH-23664	80.1	68.7	38.8	5.8	2.39	2.42	SB	VOC	3.0	21.23	76
12	28122	RH-169269	80.1	70.6	56.5	6.43	2.33	2.75	LB	VOC	5.0	20.94	93
13	28123	IIRRH-130	79.5	70.4	61.0	6.43	2.02	3.18	LS	VOC	4.0	27.77	55
14	28124	CRHR-105	-	-	-	-	-	-	-	-	-	-	-
15	28125	CRHR-106	79.4	68.0	43.5	7.08	2.20	3.1	LS	VOC	3.0	21.00	67
16	US-314 (NCH)		79.2	66.5	35.5	5.66	2.06	2.74	MS	VOC	5.5	23.37	63
17	CO-51 (NCV)		78.6	70.5	67.9	5.41	1.97	2.74	MS	A	4.0	25.84	66
18	MTU-1153 (ZCV)		80.1	71.8	65.8	6.32	2.23	2.83	LB	VOC	3.0	21.23	60
19	Rasi (LCV)		-	-	-	-	-	-	-	-	-	-	-

HULL: Hulling (%) Milling (%): HRR rice recovery (%);KL: Kernal length(mm); KB: Kernal breadth(mm);SS: short slender; L/B Length and breadth ratio; Grain Chalk :Grain Chalkiness ; VOC : Very occasionally present; A: Absent ; MS: Medium slender; ASV : Alkali spreading value; AC: Amylose content(%); GC: Gel consistency; LB Long bold; SB::short bold; LS: Long slender

**Appendix-4: Grain Yield (kg/ha) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	Zone-II						Zone-III (contd)					
			KUL	PNT	LDN	CHT	IAR	Northern Mean	MSD	ALH	JKA	UP Mean	PSA	SYN
1	28126	NPH-101	6133	7479(2)	5438	5633	7060	6349	5799(7)		5358(9)	5579	5889(2)	7619
2	28127	IRH-121	6333	2907	3534	3500	5086	4272	4380	8867(4)	5466(6)	6238	3167	4707
3	28128	SHX-468	7633 (4)	6859(10)	9386(1)	6800(1)	7702	7676	5590(10)	5633	5312(10)	5512	2444	9069(1)
4	28129	SAVA-5055	8167 (2)	6243	6837	6667(2)	8090	7201	5298	7133	5378(8)	5937	3472	7021
5	28130	Indam-300-007	6500	6276	7433(8)	4700	7871	6556	4339	7700	4783	5607	4000	7724(10)
6	28131	SAVA-5065	7400(7)	6470	4545	4333	7213	5992	6300(4)	8133	4727	6387	5611(3)	8127(6)
7	28132	LP-19301	6233	7210(6)	8161(5)	6600(3)	8159	7273	4547	8400(9)	5644(3)	6197	4472	8769(2)
8	28133	MEPH-152	6567	7418(3)	5775	6100(5)	8583(6)	6888	6258(5)	6833	4342	5811	4694(10)	7157
9	28134	RRX-533	6133	6743	5043	5033	8975(4)	6386	5695(8)	9100(3)	5119	6638	2806	5989
10	28135	US-326	6367	6144	4750	4033	8437(8)	5946	4673	8567(8)	4658	5966	4444	7337
11	28136	PHI-19107	7100	6779	8328(4)	5567	9149(3)	7385	3504	7467	5156	5376	4222	7887(8)
12	28137	RRX-633	6400	7150(7)	6411	6267(4)	8697(5)	6985	5215	8567(7)	4960	6247	3417	6941
13	28138	US-339	6933	6727	5730	5433	6040	6173	5298	6567	5166	5677	4694	8003(7)
14	28139	PHI-19108	6733	7212(5)	5819	5633	8542(7)	6788	6195(6)	8800(5)	4676	6557	4500	8537(5)
15	28140	JKRH-2789	7000	6330	6217	5733(9)	9699(1)	6996	6717(3)	1063	6862(1)	4881	4194	6808
16	28141	RNC-0158	7333(8)	6551	8376(3)	4233	8330	6965	4589	1042	5435(7)	3688	5972(1)	8674(3)
17	28142	MP-3020	7400(6)	6548	7017(10)	5700(10)	7632	6859	5674(9)	1082	5178	3978	5333(5)	7345
18	28143	NK-5251++	6400	6570	5434	5800(7)	9195(2)	6680	5590	1122	5285	3999	5306(6)	6941
19	28144	IIRRH-131	6733	5853	5693	5233	8353(9)	6373	3421	5433	5616(4)	4824	3833	7238
20	28145	RNC-0050	7800(3)	7003(9)	5928	6033(6)	6760	6705	4380	6567	5225	5391	4278	8601(4)
21	28146	JRH-119	6033	4676	5315	5167	6616	5561	3713	8393(10)	4470	5525	4139	6938
22	28147	IIRRH-132	8333(1)	7563(1)	5870	5300	7887	6991	7301(1)	7300	5531(5)	6710	4500	7192
23	28148	MTUHR-2104		674			1410	1042		8667(6)	3658	6162	2389	
24	28149	IIRRH-133	7267(9)	7286(4)	6057	5800(8)	6610	6604	4589	6533	5243	5455	5444(4)	6585
25	28150	IRH-120	6900	5305	7020(9)	4200	7010	6087	5257	9463(1)	4789	6503	4333	4247
26	28151	IIRRH-136	7267(10)	6390	5649	4867	8338(10)	6502	4088	5267	4793	4716	4083	6502
27	28152	IRH-122	5900	1628		5067		4198	6800(2)	1032		3916	2778	7110
28	US-312 (NCH)		6067	7057(8)	5291	4333	8183	6186	4130	9133(2)	4839	6034	5111(8)	7292
29	Gontra Bidhan-3 (NCV)		6767	6198	8577(2)	3633	8160	6667	4047	8067	4197	5437	5167(7)	7494
30	PR-113/Lalat/ Karjat-7/ MTU-1010 (ZCV)		7500(5)	5485	7467(7)	4267	6877	6319	5382	6867	5766(2)	6005	4917(9)	7871(9)
31	Local Check Variety (LCV)		5833	4546	7479(6)	4900	6476	5847	4401	5000	5210	4870	3833	6676
Exp. Mean			6839	6041	6365	5219	7571	6273	5106	6460	5095	5543	4305	7280
CD(0.05)			874.25	1178.43	753.40	832.37	699.36		819.38	479.63	362.46		531.75	632.40
CV			7.83	11.96	7.18	9.77	5.69		9.83	4.55	4.36		7.56	5.32
D/S			4.6.19	1.6.19	30.5.19		21.6.19		26.6.19	20.6.19	21.6.19		28.6.19	27.6.19
D/P			11.7.9	1.7.19	29.6.19		28.7.19		20.7.19	18.7.19	20.7.19		26.7.19	25.7.19
Gross Plot Size (Sq.m)			10.0	11.4	9.79	12.0	10.0		10.0		9.45		8.75	10.0
Net Plot Size(Sq.m)			10.0	8.76	7.9	10.0	10.0		7.99		9.36		6.0	10.0
Zonal Check Variety			PR 113	PR 113	PR 113	PR 113	PR 113		Lalat	Lalat	Lalat		Lalat	Lalat
Local Check Variety			HKR-47	PANT Dhan-12	PR-124	SJR-5	Pusa-44		NDR-2065	NDR-359	NDR-2064		Rajendra Sweta	PANT-10

**Appendix-4 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-III									Zone-IV		
			BH Mean	@ RCI	PHI	JH Mean	CHN	@ CTK	CHP	OD Mean	Eastern Mean	TTB	ARD	North-Eastern Mean
1	28126	NPH-101	6754	4630(2)	6603	6603	7944(7)	4786(5)	4750	4750	6280	4850	4449	4649
2	28127	IRH-121	3937	2083	5037	5037	6978	3942	4237	4237	5355	5083	3634	4359
3	28128	SHX-468	5757	3380	7352	7352	7758(8)	5146(2)	6320(6)	6320	6185	6167(8)	5395	5781
4	28129	SAVA-5055	5247	4028(3)	7561(10)	7561	8092(4)	3168	5524	5524	6185	5133	6449(3)	5791
5	28130	Indam-300-007	5862	3380	7681(8)	7681	6830	3801	6028	6028	6136	6133(9)	4446	5290
6	28131	SAVA-5065	6869	3889(4)	6247	6247	6496	4023	4264	4264	6238	6267(4)	5209	5738
7	28132	LP-19301	6621	4722(1)	8324(2)	8324	8018(6)	3986	6172(9)	6172	6793	5517	5093	5305
8	28133	MEPH-152	5925	3750(9)	6962	6962	8055(5)	5088(4)	5618	5618	6240	5483	5165	5324
9	28134	RRX-533	4397	3611	7497	7497	7721(9)	2773	5474	5474	6175	5817	5989(8)	5903
10	28135	US-326	5891	3333	7222	7222	7535	3548	5740	5740	6272	5983(10)	3862	4923
11	28136	PHI-19107	6054	3843(5)	7867(5)	7867	7164		6914(3)	6914	6273	6367(3)	4225	5296
12	28137	RRX-633	5179	3194	7502	7502	7238	3355	7022(2)	7022	6358	6217(6)	5576	5896
13	28138	US-339	6349	3102	7411	7411	8241(2)	3806	5497	5497	6360	5367	5598	5482
14	28139	PHI-19108	6518	3796(6)	8100(4)	8100	8092(3)	5268(1)	6482(5)	6482	6923	6767(1)	5940(9)	6353
15	28140	JKRH-2789	5501	3333	7478	7478	6236	2768	5533	5533	5611	5417	6077(5)	5747
16	28141	RNC-0158	7323	3519	8150(3)	8150	6867	2768	5834	5834	5820	6167(7)	5109	5638
17	28142	MP-3020	6339	3796(7)	7732(6)	7732	6830	3767	6019	6019	5649	5483	5427	5455
18	28143	NK-5251++	6123	3472	7188	7188	8315(1)	3777	6248(8)	6248	5749	5833	6405(4)	6119
19	28144	IIRRH-131	5536	2593	7496	7496	5828	2339	5308	5308	5522	5917	5027	5472
20	28145	RNC-0050	6439	3380	8356(1)	8356	7275	3536	6113(10)	6113	6349	5867	6574(2)	6221
21	28146	JRH-119	5538	3426	7387	7387	6236	3592	5740	5740	5877	5217	6009(7)	5613
22	28147	IIRRH-132	5846	3472	7229	7229	7201	4284(8)	7463(1)	7463	6715	4667	5070	4868
23	28148	MTUHR-2104	2389	1019			5271	4064(10)	3171	3171	4631	4017	4452	4234
24	28149	IIRRH-133	6015	3333	7690(7)	7690	6162	5122(3)	5947	5947	6024	5417	5052	5234
25	28150	IRH-120	4290	2870	6674	6674	6199	4298(7)	5380	5380	5793	5217	5747(10)	5482
26	28151	IIRRH-136	5293	3796(8)	7597(9)	7597	6125	4342(6)	5771	5771	5528	5300	5307	5303
27	28152	IRH-122	4944	1806	5951	5951	5457	4035	2780	2780	4558	5483	6655(1)	6069
28	US-312 (NCH)		6201	3704(10)	6988	6988	7610(10)	3587	6545(4)	6545	6456	5500	6059(6)	5779
29	Gontra Bidhan-3 (NCV)		6330	3657	7350	7350	7350	4281(9)	5915	5915	6198	6250(5)	5719	5984
30	PR-113/Lalat/ Karjat-7/ MTU-1010 (ZCV)		6394	3102	6197	6197	6867	3158	5218	5218	6136	6450(2)	4137	5293
31	Local Check Variety (LCV)		5254	2500	6733	6733	4714	3465	6311(7)	6311	5360	4683		4683
Exp. Mean			5713	3339	7252	7252	6990	3862	5656	5656	5992	5614	5329	5461
CD(0.05)				817.60	870.97		566.60	768.94	600.48			600.48	829.29	
CV				14.99	7.35		4.96	12.19	6.50			6.50	9.53	
D/S				27.6.19	1.7.19		20.6.19	25.6.19	10.7.19			9.7.19	15.7.19	
D/P				29.7.19	28.7.19		30.7.19	29.7.19	8.8.19			6.8.19	13.8.19	
Gross Plot Size (Sq.m)				10.5			10.87	9.0						10.0
Net Plot Size (Sq.m)				7.2	10.0		8.98	6.84	7.41				8.75	
Zonal Check Variety				Lalat	Lalat		Lalat	Lalat	Lalat					
Local Check Variety				Sahbagidhan	Lalat		Khitish	MTU-1010	MTU-1156			Chilarai		

Note: Data of RCI (Ranchi) and CTK (Cuttack) not included in the analysis due to low experimental mean

**Appendix-4 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	Zone-V								Zone-VI (contd)			
			JBP	RPR	ADV	VNR	CH Mean	SND	ANK	Central Mean	KJT	RDN	MH Mean	NWG
1	28126	NPH-101	7622(5)	8050(3)	7818	6427	7432	6537(5)	6465	7153	7130(4)	5863(3)	6499	5565(2)
2	28127	IRH-121	6539	8060(2)	5225	3546	5610	5499	5202	5678	5713	4739	5288	4170
3	28128	SHX-468	7778(4)	7137(7)	8280	5964	7127	6179(9)	6891	7038	6764(8)	5565(7)	6350	3873
4	28129	SAVA-5055	7292(8)	6127	8636(5)	8143(4)	7635	4827	6837	6977	7103(5)	5730(5)	6124	4635(9)
5	28130	Indam-300-007	6472	8657(1)	8257	6044	7653	6070	6687	7031	6057	5584(6)	6100	3732
6	28131	SAVA-5065	6139	6957(9)	6614	6128	6566	4593	5549	5997	6817(7)	4919	5470	4925(5)
7	28132	LP-19301	6588	5737	8938(4)	8752(2)	7809	5373	6568	6993	6646(9)	4052	5660	5782(1)
8	28133	MEPH-152	7562(6)	5020	8178	8301(3)	7166	6733(4)	7768(1)	7260	7011(6)	6777(1)	7072	4302
9	28134	RRX-533	6755	6823	8253	7145	7407	5507	6293	6796	5359	5188	5587	4551(10)
10	28135	US-326	6327	4860	9217(1)	6369	6815	5682	6720	6529	5839	5885(2)	6031	4167
11	28136	PHI-19107	8320(2)	7400(6)	9156(2)	9029(1)	8529	6137(10)	7301(3)	7891	6508	5818(4)	6441	4924(6)
12	28137	RRX-633	6639	5767	8321	7280	7123	6763(3)	7108(7)	6979	5490	4865	6056	4294
13	28138	US-339	5452	4637	7990	6897	6508	4777	7041(8)	6132	7151(3)	5318(10)	6072	4840(7)
14	28139	PHI-19108	7428(7)	1858	8432	6772	5687	6003	7133(6)	6271	7429(2)	4786	6338	4258
15	28140	JKRH-2789	7131	5563	8001	7133	6899	6971(1)	6657	6909	5642	5312	6146	4751(8)
16	28141	RNC-0158	6492	6007	9156(3)	8118(5)	7760	4977	7203(4)	6992	6563(10)	5416(8)	6040	4103
17	28142	MP-3020	6800	6690	7808	7617(9)	7372	6967(2)	6691	7095	5708	4837	6051	3825
18	28143	NK-5251++	7139(10)	4983	7459	5742	6061	5403	6960(10)	6281	5466	4774	5650	5292(3)
19	28144	IIRRH-131	5807	7898(4)	7650	7795(6)	7781	5277	6414	6807	5529	4862	5521	4521
20	28145	RNC-0050	6509	7107(8)	8381	6154	7214	6283(7)	7740(2)	7029	7720(1)	4248	6498	4436
21	28146	JRH-119	6843	6087	7963	7706(7)	7252	4852	6449	6650	5872	3216	5097	3612
22	28147	IIRRH-132	7206(9)	5623	8562(7)	4995	6393	3725	7158(5)	6212	5514	4894	5323	4208
23	28148	MTUHR-2104		6377	2376	7703(8)	5485	4856	3993	5061	5858	3140	4462	3783
24	28149	IIRRH-133	7923(3)	5420	8466(10)	6258	6715	5853	6966(9)	6814	5651	4628	5775	4115
25	28150	IRH-120	6990	7413(5)	8560(8)	6051	7341	6237(8)	5637	6815	5474	4748	5524	3808
26	28151	IIRRH-136	6390	5077	8309	5525	6304	5469	6176	6158	5552	4900	5524	3880
27	28152	IRH-122		5600	6042	5330	5657	6487(6)	6053	5902	5446	4299	5571	3702
28	US-312 (NCH)		6431	6683	8580(6)	6735	7333	5373	6228	6672	5458	5413(9)	5618	4220
29	Gontra Bidhan-3 (NCV)		8414(1)	6607	8514(9)	5902	7008	4072	5540	6508	5735	5255	5150	5004(4)
30	PR-113/Lalat/ Karjat-7/ MTU-1010 (ZCV)		6093	6891(10)	6007	6310	6403	5323	5002	5938	5200	4812	5084	3668
31	Local Check Variety (LCV)		4649	6761	8289	7604(10)	7551	5261	5674	6373	5674	4669	5320	4203
Exp. Mean			6818	6254	7853	6757	6955	5615	6455	6611	6099	4984	5788	4360
CD(0.05)			462.66	1375.99	520.82	1050.00		93.63	990.72		760.90	1136.53		730.63
CV			4.44	13.47	4.55	9.52		10.15	9.40		7.64	13.96		8.21
D/S			27.6.19	22.6.19	24.6.19	7.6.19		25.6.19	25.6.19		14.6.19	17.6.19		19.6.19
D/P			16.7.19	20.7.19	16.7.19	3.7.19		19.7.19	27.1.19		9.7.19	30.7.19		20.7.19
Gross Plot Size (Sq.m)			10.0	10.0	12.0			10.0	10.8		10.44	7.42		9.9
Net Plot Size (Sq.m)			7.99	10.0	10.0	7.43		7.99	8.19		7.87	5.26		7.56
Zonal Check Variety			Karjat-7	Karjat-7	Karjat-7	Karjat-7		Karjat-7	Karjat-7		Karjat-7	Karjat-7		Karjat-7
Local Check Variety			JR-81	Chandahasni		MTU-1010		PKV HMT	MTU-1010		Karjat-3	Phule Radha		Mahisagar

**Appendix-4 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VI				Zone-VII (contd)							
			NVS	@ DBI	GJ Mean	Western Mean	MTU	BAY	AP Mean	IIRR	WGL	Tierra	TS Mean	MND
1	28126	NPH-101	5365	4984(3)	5465	5981	4444	4483	4464	4678	5345	10664(3)	6896	9011
2	28127	IRH-121	3559	3039	3864	4545	3728	7700(5)	5714		3124	516	1820	6855
3	28128	SHX-468	4987	3262	4430	5297	5388(10)	6680	6034	4615	8225(8)	10604(4)	7815	9668
4	28129	SAVA-5055	5676	4313	5156	5786	5100	6238	5669	7816(1)	6625	10530(5)	8324	10305
5	28130	Indam-300-007	5133	3432	4433	5127	3598	4983	4291	5774(9)	6172	8957	6968	9652
6	28131	SAVA-5065	5026	5105(1)	4976	5422	4113	4217	4165	4861	4661	9679	6401	8700
7	28132	LP-19301	6716(5)	5020(2)	6249	5799	3791	8069(4)	5930	6091(7)	9593(1)	10317(10)	8667	10550
8	28133	MEPH-152	6015	4092	5159	6026	4286	8117(2)	6202	5692	8473(6)	9612	7926	9481
9	28134	RRX-533	5704	4243	5127	5200	3944	7450(7)	5697	5382	5736	9409	6843	9725
10	28135	US-326	5306	2971	4736	5299	7794(1)	5217	6505	5324	5094	10517(6)	6978	10942(5)
11	28136	PHI-19107	5636	4651(6)	5280	5722	7792(2)	8183(1)	7988	6864(2)	5252	10739(1)	7619	11614(2)
12	28137	RRX-633	5359	3103	4826	5002	3842	6633	5237	6420(3)	7971(9)	9641	8011	10551(10)
13	28138	US-339	6512(7)	4531(9)	5676	5955	4769	6000	5384	6147(6)	8327(7)	9717	8064	9126
14	28139	PHI-19108	7654(1)	4079	5956	6032	7365(3)	5045	6205	5959(8)	9580(2)	10508(7)	8682	10373
15	28140	JKRH-2789	6677(6)	4404(10)	5714	5596	3902	5571	4737	5672	7109	9127	7303	10774(6)
16	28141	RNC-0158	6135(10)	3960	5119	5554	6602(7)	6967	6784	5631	7207	10444(9)	7761	10741(8)
17	28142	MP-3020	7269(4)	3665	5547	5410	3996	4220	4108	4801	7478	10200	7493	11027(4)
18	28143	NK-5251++	6502(8)	4536(8)	5897	5508	6733(6)	7067(10)	6900		8891(4)	10465(8)	9678	10743(7)
19	28144	IIRRH-131	4854	4352	4687	4942	3667	3867	3767	4800	5665	9343	6603	8717
20	28145	RNC-0050	7423(2)	4103	5929	5957	3600	5783	4692	5349	9398(3)	10738(2)	8495	11919(1)
21	28146	JRH-119	5316	3526	4464	4504	3484	7403(8)	5444	4869	6581	7859	6436	8562
22	28147	IIRRH-132	7309(3)	4541(7)	5759	5481	3842	7068(9)	5455	6153(5)	8662(5)	9346	8054	10099
23	28148	MTUHR-2104	6112	3827	4948	4723	5746(9)	4157	4952	2478	4479	4755	3904	1115
24	28149	IIRRH-133	6232(9)	4784(4)	5173	5156	4202	6214	5208	5670	6363	9090	7041	8629
25	28150	IRH-120	3441	3066	3624	4368	6007(8)	6428	6217	5585	5670	9875	7043	8198
26	28151	IIRRH-136	5878	4046	4879	5053	6768(5)	6600	6684	5334	5350	9934	6873	9859
27	28152	IRH-122	4950	2951	4326	4599		8102(3)	8102		4879	462	2670	11179(3)
28	US-312 (NCH)		5317	3235	4768	5102	3738	5017	4377	5702(10)	7540(10)	10188	7810	10397
29	Gontra Bidhan-3 (NCV)		5159	4687(5)	5081	5288	4110	7633(6)	5872	4656	7438	9877	7324	10588(9)
30	PR-113/Lalat/ Karjat-7/ MTU-1010 (ZCV)		3383	2620	3525	4266	4549	5733	5141	4288	5314	7531	5711	8466
31	Local Check Variety (LCV)		5698	4039	4950	5061	7329(4)	6411	6870	6390(4)	5687		6039	8636
Exp. Mean			5687	3973	5023	5283	4941	6234	5639	5464	6706	9021	7008	9555
CD(0.05)			1169.24	410.04			599.64	795.82		1447.09	1443.08	1034.11		1029.15
CV			12.59	6.32			7.43	7.82		16.22	13.18	7.25		6.6
D/S			11.6.19	7.6.19			5.7.19	29.6.19		16.6.19	1.7.19	20.6.19		
D/P			8.7.19	15.7.19			29.7.19	20.7.19		6.8.19	3.8.19	16.7.19		
Gross Plot Size (Sq.m)			10.8	12.96			10.56	12.0		8.44	7.5	6.0		
Net Plot Size (Sq.m)			8.82	10.2			8.10	10.0		6.73	5.88	5.0		
Zonal Check Variety			Karjat-7	Karjat-7			MTU-1010	MTU-1010		MTU-1010	MTU-1010	MTU-1010		MTU-1010
Local Check Variety			NAUR-1	GR-11			MTU-1121	MTU-1010		Varadhan	RNR-15048			IR-64

Note: Data of DBI (Dabhoi) not included in the analysis due to low experimental mean

**Appendix-4 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VII							Over all Mean
			@ BRM	MGD	KA Mean	CBT	ADT	TN Mean	Southern Mean	
1	28126	NPH-101	3182	5678	7345	7081	6265	6673	6406	6348
2	28127	IRH-121	2606	3907	5381	2675	5710	4192	4277	4830
3	28128	SHX-468	2818	5888	7778	7453(10)	6713	7083	7248	6708
4	28129	SAVA-5055	2939	7209(7)	8757	7620(7)	6343	6981	7532	6760
5	28130	Indam-300-007	4067(7)	5751	7701	4281	7191(9)	5736	6262	6220
6	28131	SAVA-5065	2673	6943(10)	7822	7128	6929	7028	6359	6066
7	28132	LP-19301	2939	6931	8741	3803	7731(3)	5767	7431	6863
8	28133	MEPH-152	3606	6150	7816	8260(3)	6914	7587	7443	6755
9	28134	RRX-533	2939	5055	7390	8056(5)	6281	7169	6782	6346
10	28135	US-326	3848(10)	7031(9)	8986	7805(6)	6898	7352	7402	6375
11	28136	PHI-19107	3000	8234(3)	9924	7216	6790	7003	8076	7077
12	28137	RRX-633	2927	6345	8448	6965	6574	6770	7216	6600
13	28138	US-339	3030	8444(2)	8785	9561(1)	6574	8067	7629	6529
14	28139	PHI-19108	3152	9258(1)	9816	9022(2)	6975	7999	8232	6996
15	28140	JKRH-2789	2818	7995(4)	9385	7531(8)	6420	6976	7123	6450
16	28141	RNC-0158	3273	6106	8424	6282	6466	6374	7383	6567
17	28142	MP-3020	5030(3)	7148(8)	9088	4850	7076(10)	5963	6755	6336
18	28143	NK-5251++	5273(2)	7312(6)	9027	8089(4)	8565(1)	8327	8483	6643
19	28144	IIRRH-131	5030(4)	4495	6606	5131	6636	5883	5813	5880
20	28145	RNC-0050	3576	7478(5)	9699	7290	7809(2)	7549	7707	6827
21	28146	JRH-119	4776(5)	5452	7007	6538	7222(8)	6880	6441	5939
22	28147	IIRRH-132	4424(6)	5224	7662	7443	7392(5)	7418	7248	6554
23	28148	MTUHR-2104	2879	3714	2415	4462	6620	5541	4170	4275
24	28149	IIRRH-133	2818	6011	7320	5809	6836	6323	6536	6236
25	28150	IRH-120	2758	4591	6395	5252	7670(4)	6461	6586	6040
26	28151	IIRRH-136	3582	6703	8281	6668	5895	6281	7012	6106
27	28152	IRH-122	3939(9)	4608	7893	5530	6281	5906	5863	5200
28	US-312 (NCH)		5545(1)	6439	8418	6793	7346(7)	7069	7018	6404
29	Gontra Bidhan-3 (NCV)		3970(8)	5063	7825	7035	7377(6)	7206	7086	6437
30	PR-113/Lalat/ Karjat-7/ MTU-1010 (ZCV)		2091	2384	5425	4996	6204	5600	5496	5689
31	Local Check Variety (LCV)		3727	6852	7744	7531(9)	6867	7199	6963	5968
Exp. Mean			3524	6142	7848	6586	6857	6721	6838	6259
CD(0.05)			612.51	1507		1252.28	1184.02			
CV			8.51	12.02		11.76	10.57			
D/S			17.6.19	4.6.19		17.6.19	24.6.19			
D/P			17.7.19			30.7.19	23.7.19			
Gross Plot Size (Sq.m)			10.0	8.8		9.06	12.6			
Net Plot Size (Sq.m)			8.25	8.8		7.17	10.8			
Zonal Check Variety			MTU-1010	MTU-1010		MTU-1010	MTU-1010			
Local Check Variety			Mahaveera	MGD-101		ADT-39				

**Note:** Data of BRM (Brahmavar) not included in the analysis due to low experimental mean

**Appendix-5: Days to 50% Flowering (DFF) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	Zone-II						Zone-III (contd)					
			KUL	PNT	LDN	CHT	IAR	Northern Mean	MSD	ALH	JKA	UP Mean	PSA	SYN
1	28126	NPH-101	99	100	103	104	94	100	102		96	99	105	98
2	28127	IRH-121	88	93	94	93	83	90	93	91	83	89	89	86
3	28128	SHX-468	95	99	102	96	92	97	102	81	91	92	95	96
4	28129	SAVA-5055	89	96	95	98	84	92	96	81	91	89	102	94
5	28130	Indam-300-007	91	94	97	96	85	93	94	85	88	89	85	93
6	28131	SAVA-5065	101	102	104	106	96	102	102	86	95	94	98	101
7	28132	LP-19301	90	95	94	100	87	93	95	96	89	93	104	95
8	28133	MEPH-152	100	102	103	102	96	101	101	88	92	94	104	97
9	28134	RRX-533	101	104	105	99	93	100	95	89	93	93	95	96
10	28135	US-326	95	97	102	103	89	97	102	90	88	93	90	93
11	28136	PHI-19107	91	96	95	99	90	94	102	87	91	93	99	96
12	28137	RRX-633	96	101	101	103	93	99	105	85	94	94	104	98
13	28138	US-339	99	103	103	105	98	102	103	83	94	93	96	98
14	28139	PHI-19108	100	104	106	104	97	102	103	92	99	98	107	100
15	28140	JKRH-2789	100	104	104	106	97	102	104	86	94	95	100	96
16	28141	RNC-0158	95	99	101	98	90	97	102	78	93	91	90	96
17	28142	MP-3020	97	101	102	102	95	99	103	85	95	95	105	96
18	28143	NK-5251++	99	99	104	102	90	99	106	87	94	96	95	98
19	28144	IIRRH-131	93	98	103	100	82	95	97	89	90	92	96	95
20	28145	RNC-0050	97	105	106	105	92	101	108	83	98	96	106	102
21	28146	JRH-119	94	98	102	99	87	96	97	91	91	93	97	95
22	28147	IIRRH-132	98	100	101	103	91	99	100	89	91	93	97	96
23	28148	MTUHR-2104		123			121	122		89	121	105	115	114
24	28149	IIRRH-133	104	109	110	107	94	105	106	87	99	97	105	101
25	28150	IRH-120	90	96	102	97	90	95	99	91	88	93	95	93
26	28151	IIRRH-136	100	103	103	106	101	103	105	85	94	95	97	99
27	28152	IRH-122	94	102		105		100	95	87		91	92	98
28	US-312 (NCH)		94	99	104	101	93	98	102	83	94	93	95	95
29	Gontra Bidhan-3 (NCV)		92	98	95	97	92	95	103	81	95	93	99	96
30	PR-113/Lalat/ Karjat-7/MTU-1010 (ZCV)		102	108	102	112	99	105	102	91	94	96	105	99
31	Local Check Variety (LCV)		101	95	100	106	105	101	105	92	99	99	114	103
Exp. Mean			96	101	102	102	93	99	101	87	94	94	99	97

**Appendix-5 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-III									Zone-IV		
			BH Mean	@ RCI	PHI	JH Mean	CHN	@ CTK	CHP	OD Mean	Eastern Mean	TTB	ARD	North Eastern Mean
1	28126	NPH-101	102	120	100	100	98	93	105	105	101	100	98	99
2	28127	IRH-121	87	109	89	89	84	88	87	87	88	88	84	86
3	28128	SHX-468	96	116	100	100	99	93	104	104	96	98	96	97
4	28129	SAVA-5055	98	120	98	98	100	90	94	94	95	92	90	91
5	28130	Indam-300-007	89	115	96	96	99	91	102	102	93	96	95	95
6	28131	SAVA-5065	99	123	102	102	100	93	105	105	99	101	95	98
7	28132	LP-19301	100	111	97	97	102	91	94	94	97	91	93	92
8	28133	MEPH-152	101	121	100	100	97	93	103	103	98	100	95	97
9	28134	RRX-533	96	117	96	96	98	96	101	101	95	102	86	94
10	28135	US-326	92	120	98	98	100	92	103	103	96	98	92	95
11	28136	PHI-19107	98	121	99	99	92		102	102	96	99	95	97
12	28137	RRX-633	101	117	98	98	96	93	100	100	97	102	97	99
13	28138	US-339	97	124	100	100	97	93	106	106	97	100	91	96
14	28139	PHI-19108	103	123	101	101	99	93	108	108	101	101	98	100
15	28140	JKRH-2789	98	123	100	100	98	95	104	104	98	101	97	99
16	28141	RNC-0158	93	119	99	99	99	95	106	106	95	101	98	99
17	28142	MP-3020	100	120	100	100	100	91	104	104	99	100	96	98
18	28143	NK-5251++	96	122	101	101	98	91	106	106	98	101	93	97
19	28144	IIRRH-131	95	114	98	98	98	91	99	99	95	96	94	95
20	28145	RNC-0050	104	123	102	102	102	94	110	110	101	104	93	98
21	28146	JRH-119	96	113	99	99	99	92	100	100	96	100	93	97
22	28147	IIRRH-132	96	116	97	97	98	95	100	100	96	97	100	99
23	28148	MTUHR-2104	115	128	109	109	115	90	117	117	111	108	93	101
24	28149	IIRRH-133	103	120	100	100	92	91	105	105	99	104	93	99
25	28150	IRH-120	94	117	99	99	102	91	99	99	96	94	94	94
26	28151	IIRRH-136	98	123	98	98	97	90	104	104	98	101	80	90
27	28152	IRH-122	95	114	97	97	87	90	95	95	93	92	91	92
28	US-312 (NCH)		95	123	99	99	99	95	102	102	96	100	92	96
29	Gontra Bidhan-3 (NCV)		97	121	98	98	101	94	99	99	96	97	94	96
30	PR-113/Lalat/ Karjat-7/MTU-1010 (ZCV)		102	123	99	99	100	90	106	106	100	101	97	99
31	Local Check Variety (LCV)		109	110	97	97	94	93	100	100	100	105		105
Exp. Mean			98	119	99	99	98	92	102	102	97	99	93	96

**Appendix-5 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	Zone-V								Zone-VI (contd)			
			JBP	RPR	ADV	VNR	CH Mean	SND	ANK	Central Mean	KJT	RDN	MH Mean	NWG
1	28126	NPH-101	96	98	87	97	94	97	102	96	89	117	101	102
2	28127	IRH-121	82	98	70	84	84	81	93	85	80	108	90	96
3	28128	SHX-468	96	97	81	90	89	93	97	92	85	117	98	99
4	28129	SAVA-5055	92	100	81	92	91	90	99	92	87	112	97	96
5	28130	Indam-300-007	91	100	79	89	89	87	96	90	84	112	95	98
6	28131	SAVA-5065	102	104	90	98	97	93	100	98	97	113	101	101
7	28132	LP-19301	94	98	81	88	89	91	98	92	86	112	97	97
8	28133	MEPH-152	96	101	86	97	95	98	99	96	92	117	101	99
9	28134	RRX-533	92	94	84	95	91	93	98	93	96	115	100	97
10	28135	US-326	91	92	81	91	88	89	99	90	85	113	96	98
11	28136	PHI-19107	93	96	85	92	91	98	97	93	96	110	100	95
12	28137	RRX-633	94	92	83	92	89	92	98	92	85	112	97	97
13	28138	US-339	99	90	86	97	91	97	104	96	89	116	102	99
14	28139	PHI-19108	98	116	87	98	100	96	105	100	98	115	104	102
15	28140	JKRH-2789	99	94	88	94	92	95	102	95	99	115	103	100
16	28141	RNC-0158	93	95	84	94	91	91	99	93	90	113	98	97
17	28142	MP-3020	95	93	85	96	91	95	101	94	89	113	100	101
18	28143	NK-5251++	96	90	87	86	87	95	105	93	94	120	104	102
19	28144	IIRRH-131	92	94	79	97	90	92	98	92	83	117	98	97
20	28145	RNC-0050	99	97	87	90	91	98	105	96	98	112	103	102
21	28146	JRH-119	93	95	80	94	90	88	96	91	85	112	95	100
22	28147	IIRRH-132	94	101	83	117	100	95	102	99	90	111	100	101
23	28148	MTUHR-2104	108	96	106	100	100	107	115	105	87	124	109	113
24	28149	IIRRH-133	100	100	85	89	91	96	105	96	87	114	101	102
25	28150	IRH-120	94	96	80	97	91	88	95	92	86	110	95	97
26	28151	IIRRH-136	98	94	85	87	89	95	101	93	101	112	102	105
27	28152	IRH-122		101	80	88	90	89	96	91	94	111	98	101
28	US-312 (NCH)		95	95	84	94	91	92	98	93	90	113	98	95
29	Gontra Bidhan-3 (NCV)		94	96	83	89	89	92	98	92	84	118	98	96
30	PR-113/Lalat/ Karjat-7/MTU-1010 (ZCV)		94	93	80	89	87	89	95	90	87	105	94	90
31	Local Check Variety (LCV)		94	96	76	97	90	98	98	93	89	120	101	90
Exp. Mean			95	97	83	93	92	93	100	94	90	114	99	99

**Appendix-5 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VI				Zone-VII (contd)							
			NVS	DBI	GJ Mean	Western Mean	MTU	BAY	AP Mean	IIRR	WGL	Tiera	TS Mean	MND
1	28126	NPH-101	92	101	97	100	88	120	104	107	97	97	100	97
2	28127	IRH-121	79	88	88	91	74	101	88		86	90	88	77
3	28128	SHX-468	81	95	90	96	72	112	92	102	93	94	96	95
4	28129	SAVA-5055	85	92	91	95	82	114	98	93	90	92	92	96
5	28130	Indam-300-007	84	93	91	94	81	113	97	101	91	90	94	98
6	28131	SAVA-5065	92	104	96	101	88	116	102	103	101	98	101	99
7	28132	LP-19301	87	90	92	95	82	116	99	87	92	90	90	97
8	28133	MEPH-152	90	102	94	99	89	119	104	103	100	95	99	97
9	28134	RRX-533	89	103	93	99	87	118	102	103	101	92	99	94
10	28135	US-326	88	99	93	96	86	113	100	104	91	91	95	93
11	28136	PHI-19107	88	90	92	98	85	118	102	102	90	93	95	102
12	28137	RRX-633	87	98	92	96	87	114	101	92	96	92	93	88
13	28138	US-339	94	101	96	100	88	116	102	104	97	97	99	95
14	28139	PHI-19108	91	101	96	101	90	117	104	106	105	96	102	94
15	28140	JKRH-2789	86	99	93	100	87	117	102	105	100	99	101	96
16	28141	RNC-0158	86	99	91	96	86	115	101	101	101	96	99	98
17	28142	MP-3020	87	101	94	97	85	118	101	105	100	95	100	96
18	28143	NK-5251++	86	101	94	101	87	117	102		97	97	97	96
19	28144	IIRRH-131	85	100	91	96	82	112	97	99	87	89	92	86
20	28145	RNC-0050	90	114	96	101	91	119	105	109	102	99	103	98
21	28146	JRH-119	84	100	92	95	82	114	98	98	90	93	94	94
22	28147	IIRRH-132	91	100	96	98	83	115	99	101	96	93	97	88
23	28148	MTUHR-2104	99	104	106	106	102	119	110	113	114	106	111	101
24	28149	IIRRH-133	94	104	98	99	92	120	106	100	102	97	100	94
25	28150	IRH-120	83	101	90	94	83	112	97	97	92	93	94	95
26	28151	IIRRH-136	91	103	98	102	88	117	103	106	102	94	101	93
27	28152	IRH-122	92	102	96	97		116	116		97	94	96	94
28	US-312 (NCH)		86	101	90	96	84	117	100	100	90	93	95	95
29	Gontra Bidhan-3 (NCV)		87	92	91	96	84	112	98	101	95	93	96	98
30	PR-113/Lalat/ Karjat-7/MTU-1010 (ZCV)		83	101	86	91	78	110	94	98	89	88	92	87
31	Local Check Variety (LCV)		85	102	88	96	107	116	111	103	108		106	91
Exp. Mean			88	99	93	98	86	115	101	102	97	94	97	94

**Appendix-5 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Mid Early, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VII							Over All Mean
			@ BRM	MGD	KA Mean	CBT	ADT	TN Mean	Southern Mean	
1	28126	NPH-101	105	108	103	115	104	109	104	100
2	28127	IRH-121	94	84	81	99	95	97	88	88
3	28128	SHX-468	106	103	99	111	102	107	98	96
4	28129	SAVA-5055	102	104	100	106	98	102	97	94
5	28130	Indam-300-007	102	94	96	108	99	103	97	94
6	28131	SAVA-5065	107	108	104	115	108	112	104	101
7	28132	LP-19301	103	102	100	107	105	106	97	95
8	28133	MEPH-152	102	106	102	115	101	108	103	99
9	28134	RRX-533	95	100	97	112	102	107	101	97
10	28135	US-326	97	102	97	111	106	108	100	96
11	28136	PHI-19107	96	105	103	111	99	105	101	97
12	28137	RRX-633	94	101	94	107	93	100	97	96
13	28138	US-339	105	109	102	115	103	109	103	99
14	28139	PHI-19108	106	111	103	110	105	107	104	102
15	28140	JKRH-2789	104	104	100	110	106	108	103	100
16	28141	RNC-0158	103	107	103	114	103	108	102	97
17	28142	MP-3020	105	109	102	111	99	105	102	99
18	28143	NK-5251++	104	111	104	111	108	109	103	99
19	28144	IIRRH-131	104	107	97	107	97	102	96	95
20	28145	RNC-0050	106	112	105	113	106	110	105	101
21	28146	JRH-119	105	106	100	101	106	104	98	96
22	28147	IIRRH-132	103	104	96	103	99	101	98	98
23	28148	MTUHR-2104	115	121	111	118	116	117	112	110
24	28149	IIRRH-133	102	102	98	113	99	106	102	100
25	28150	IRH-120	102	110	103	107	101	104	99	95
26	28151	IIRRH-136	105	107	100	114	107	111	103	99
27	28152	IRH-122	102	101	98	107	102	104	102	96
28	US-312 (NCH)		105	107	101	105	110	108	100	97
29	Gontra Bidhan-3 (NCV)		104	108	103	114	110	112	102	97
30	PR-113/Lalat/ Karjat-7/MTU-1010 (ZCV)		102	102	95	100	96	98	94	96
31	Local Check Variety (LCV)		96	101	96	111	112	111	106	100
Exp. Mean			102	105	100	110	103	106	101	98

**Appendix-6: Quality Characteristics of hybrids in IHRT-Mid Early, Kharif 2019**

S. No	IET No	Name	HULL	MILL	HRR	KL	KB	L/B	Grain Type	Grain Chalk	ASV	AC	GC
1	28126	NPH-101	80.7	70.4	50.9	6.78	2.14	2.36	LB	VOC	4.3	24.58	54
2	28127	IRH-121	-	-	-	-	-	-	-	-	-	-	-
3	28128	SHX-468	80.7	72.1	64.4	6.24	2.1	2.97	LB	VOC	4.0	22.55	48
4	28129	SAVA-5055	79.5	69.7	53.9	6.42	2.18	2.94	LB	VOC	4.6	16.60	97
5	28130	Indam-300-007	79.4	70.7	62.9	5.82	2.29	2.54	MS	VOC	4.0	25.69	35
6	28131	SAVA-5065	80.8	71.0	61.5	5.55	1.94	2.86	MS	VOC	3.0	17.54	85
7	28132	LP-19301	80.3	70.9	57.2	6.38	2.17	2.94	LB	A	7.0	19.85	53
8	28133	MEPH-152	81.3	73.4	69.7	5.75	2.24	2.56	MS	VOC	6.0	23.78	22
9	28134	RRX-533	80.5	72.0	66.2	6.41	2.24	2.86	LB	A	7.0	25.81	22
10	28135	US-326	81.1	72.5	66.5	6.52	2.14	3.04	LS	VOC	4.5	22.55	53
11	28136	PHI-19107	81.4	71.0	59.1	6.75	2.07	3.26	LS	VOC	3.0	23.26	70
12	28137	RRX-633	79.8	71.3	64.2	6.42	2.01	3.19	LS	A	4.8	23.58	100
13	28138	US-339	81.0	70.5	47.4	6.03	2.29	2.63	LB	VOC	4.0	22.26	67
14	28139	PHI-19108	80.5	69.0	44.9	6.5	2.36	2.75	LB	VOC	4.0	26.37	40
15	28140	JKRH-2789	81.2	70.8	55.9	6.4	2.16	2.96	LB	VOC	5.1	21.18	54
16	28141	RNC-0158	79.7	71.0	60.8	7.21	2.04	3.53	LS	VOC	4.0	21.82	77
17	28142	MP-3020	79.6	71.2	66.2	6.26	2.01	3.11	LS	VOC	4.3	19.80	43
18	28143	NK-5251++	-	-	-	-	-	-	-	-	-	-	-
19	28144	IIRRH-131	81.5	71.6	55.3	5.82	2.00	2.91	MS	VOC	4.8	23.78	31
20	28145	RNC-0050	79.7	70.6	60.0	6.12	2.28	2.68	LB	VOC	3.5	22.88	61
21	28146	JRH-119	80.1	72.0	62.5	6.81	1.99	3.42	LS	VOC	4.8	25.13	22
22	28147	IIRRH-132	80.4	70.6	56.9	7.31	1.92	3.80	LS	VOC	4.0	25.54	60
23	28148	MTUHR-2104	79.6	70.6	66.3	5.41	1.97	2.74	MS	VOC	4.0	24.25	40
24	28149	IIRRH-133	80.4	70.6	59.6	6.9	1.85	3.72	LS	VOC	4.0	25.78	48
25	28150	IRH-120	79.0	69.7	62.0	6.61	1.96	3.37	LS	VOC	7.0	24.87	22
26	28151	IIRRH-136	80.3	71.5	67.8	5.63	1.99	2.82	MS	VOC	5.5	25.96	22
27	28152	IRH-122	-	-	-	-	-	-	-	-	-	-	-
28	US-312 (NCH)		80.2	71.6	63.1	5.62	2.03	2.76	MS	VOC	4.4	21.88	47
29	Gontra Bidhan-3 (NCV)		80.0	70.2	58.9	5.46	2.28	2.39	SB	VOC	4.0	25.72	40
30	MTU-1010 (ZCV)		77.9	68.1	40.5	6.39	2.02	3.16	LS	VOC	3.5	24.22	60
31	Varadhan (LCV)		-	-	-	-	-	-	-	-	-	-	-

HULL: Hulling (%) Milling (%); HRR rice recovery (%); KL: Kernal length(mm); KB:Kernal breadth(mm);SS: short slender; L/B Length and breadth ratio; Grain Chalk:Grain Chalkiness;VOC:Very occasionally present; A: Absent;MS:Medium slender; ASV:Alkali spreading value; AC: Amylose content(%); GC:Gel consistency; LB Long bold; SB: short bold; LS: Long slender

**Appendix-7: Grain Yield (kg/ha) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	Zone- II				Zone- III (contd)							
			KUL	PNT	LDN	Northern Mean	MSD	NZV	TMT	VRN	UP Mean	PSA	SBR	PHI
1	28153	TMRH-5559	9333(5)	6456	5476	7089	5090	8967	6687(8)	7047	6947	5250(7)	9332(3)	8324
2	28154	MEPH-153	9233(8)	6414	4771	6806	4693	9352(5)	6853(6)	7767	7166	4556	8300	8675(8)
3	28155	RRX-426	8267	6780(5)	6323(5)	7123	5340(10)	9057(9)	5935	8193	7131	3944	8165	8069
4	28156	US-368	9267(7)	6203	5534	7001	4673	8336	7812(1)	7660	7120	5139(10)	9107(6)	8068
5	28157	NPH-X29	8533	5659	5904(9)	6699	5298	9938(1)	6220	5320	6694	4833	8793(9)	8127
6	28158	RRX-445	8900(10)	6662(8)	6336(4)	7300	5257	9041(10)	6403	8837(7)	7384	6472(3)	9287(4)	8051
7	28159	PHI-19103	8767	7166(1)	5450	7128	4735	9357(4)	7037(3)	8277(10)	7351	4111	9646(2)	9355(3)
8	28160	HRI-202	10233(1)	6451	4660	7115	5882(6)	9360(3)	6862(5)	9307(4)	7853	3889	9870(1)	8633(9)
9	28161	RH-169292	9233(9)	6401	6027(7)	7221	6028(3)	8779	6694(7)	8083	7396	5278(6)	7986	8608(10)
10	28162	PHI-19104	9833(2)	6521(9)	5957(8)	7437	5090	9721(2)	6926(4)	10773(1)	8127	6222(4)	8703(10)	9102(5)
11	28163	PHI-19105	9767(3)	7153(2)	5767	7562	5194	9238(7)	6652(9)	8653(8)	7434	4472	8569	9489(2)
12	28164	RH-169257	9300(6)	6678(7)	5049	7009	5340	9311(6)	6461	9093(6)	7551	7056(2)	7582	7750
13	28165	IIRRH-134	3433	6360	2094	3963	4547	8803	5621	3523	5624	5250(8)	3858	5323
14	28166	PHI-19106	8467	6519(10)	6526(2)	7170	6487(1)	9008	6485(10)	8207	7547	4111	8838(8)	9013(6)
15	28167	MP-3310	8000	6156	5811(10)	6656	5507(9)	8327	6164	8487(9)	7121	7611(1)	9242(5)	7892
16	28168	IIRRH-135	7567	6210	4784	6187	5152	7278	5772	6740	6236	3667	7133	5765
17	28169	CP-800	7800	5799	4162	5921	6008(4)	6983	6142	7370	6626	4000	5698	6634
18	28170	CRHR-122	6833	5539	4603	5659	4339	7139	5504	5370	5588	4639	4038	5190
19	28171	RNE-0122	8900	6811(4)	6217(6)	7309	5736(7)	9098(8)	6110	9667(3)	7653	3611		9653(1)
20	28172	IIRRH-137	7100	5688	3404	5397	4485	7746	5767	8193	6548	5194(9)	6595	6881
21	28173	CRHR-148	6933	4588	3598	5040	5549(8)	7623		6517	6563	4111	8255	6948
22	28174	RNE-0148	9567(4)	7053(3)	6451(3)	7690	4819	8524	6359	10177(2)	7470	4417		9127(4)
23	28175	DLRH-6	8100	6277	4431	6269	3942	7245	6307	7883	6345	4528	8703	7757
24	28176	IIRRH-138	8267	5659	4537	6154	5945(5)	8467	6191	6947	6887	4333	8479	7666
25	HRI-174 (NCH)		8233	6750(6)	5741	6908	4088	8737	7078(2)	9137(5)	7260	4889	9062(7)	8946(7)
26	NDR-359 (NCV)		6833	5763	5243	5946	6258(2)	7615	6285	7663	6955	4778	8479	8143
27	PR-121/CR Dhan-300/ IR-64/Akshayadhan/Jaya (ZCV)		7500	5895	5375	6257	4005	7156		2900	4687	4806	8165	
28	Local Check Variety (LCV)		7433	5444	6526(1)	6468	5298	6285	6064	4963	5653	5694(5)	8210	6506
Exp. Mean			8273	6252	5241	6589	5171	8446	6400	7598	6890	4888	8081	7915
CD(0.05)			678.84	1212.07	964.24		639.4	1041.15	675.94	921.55		523.22	1042.16	1037.43
CV			5.03	11.87	11.27		7.57	6.01	6.147	7.43		6.56	7.9	8.03
D/S			4.6.19	1.6.19	28.5.19		29.6.19		20.6.19			28.6.19	12.7.19	21.6.19
D/P			10.7.19	4.7.19	29.6.19		22.7.19		16.7.19			26.7.19	10.8.19	11.7.19
Gross Plot Size (Sq.m)			10.0	11.4	7.56		10.0		12.6			8.75	9.45	
Net Plot Size (Sq.m)			10.0	8.76	5.85		7.99	10.0	10.8			6.0	7.43	10.0
Zonal Check Variety			PR-121	PR-121	PR-121		CR Dhan-300	CR Dhan-300	CR Dhan-300	CR Dhan-300		CR Dhan-300	CR Dhan-300	CR Dhan-300
Local Check Variety			HSD-1	Pant Dhan 4	PR121		Narendra Sona		PR 113	HUR-105		Santosh	Sabour Shree	

**Appendix-7 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- III						Zone- IV			Zone- V (contd)		
			SYN	BH Mean	RCI	CHN	CTK	Eastern Mean	TTB	ARD	North-Eastern Mean	JBP	WRS	MP Mean
1	28153	TMRH-5559	7945(9)	7713	4669(7)	7851(10)	6250	7037	6050(10)	6103	6076	6459	5872	6166
2	28154	MEPH-153	6839	7092	4715(6)	6159	6613	6775	5050	5990	5520	5857	7921(7)	6889
3	28155	RRX-426	6407	6646	3175	8698(3)	5862	6622	5517	6545	6031	6411	7652	7031
4	28156	US-368	8213(2)	7632	4949(5)	8980(1)	5960	7172	5867	7246(1)	6556	6740	7986(6)	7363
5	28157	NPH-X29	7557	7328	5649(4)	7710	7278(6)	6975	5950	7036(4)	6493	7414(7)	6589	7001
6	28158	RRX-445	7342	7788	4622(8)	8510(5)	7137(9)	7360	5250	6933(8)	6091	8209(1)	7747(8)	7978
7	28159	PHI-19103	8414(1)	7881	4388	8839(2)	6848(10)	7364	6100(9)	7031(5)	6565	6538	6784	6661
8	28160	HRI-202	8090(5)	7620	4435(10)	8275(8)	7410(4)	7456	6550(4)	7067(2)	6809	7820(4)	8646(2)	8233
9	28161	RH-169292	8035(7)	7476	4108	7334	5888	6984	6183(8)	6648	6416	6296	7817(8)	7057
10	28162	PHI-19104	8117(4)	8036	4388	7851(9)	6814	7610	6650(3)	6392	6521	7658(5)	7166	7412
11	28163	PHI-19105	7084	7403	7937(1)	7616	7260(7)	7469	6767(2)	6926(9)	6847	7901(3)	4418	6160
12	28164	RH-169257	6642	7257	3315	6441	6422	6856	5500	7038(3)	6269	7222(8)	7687(9)	7454
13	28165	IIRRH-134	5058	4872	4015	6347	5779	5284	5617	5187	5402	6037	4540	5288
14	28166	PHI-19106	7958(8)	7480	5836(3)	8275(7)	7173(8)	7399	6217(7)	6868(10)	6542	6429	8759(1)	7594
15	28167	MP-3310	7344	8022	3828	8322(6)	7432(3)	7287	5850	5649	5749	6998	6286	6642
16	28168	IIRRH-135	5919	5621	3875	6159	5972	5767	4517	5610	5063	7146(9)	3746	5446
17	28169	CP-800	6201	5633	3408	6488	5174	5828	4683	5504	5093	6030	5651	5841
18	28170	CRHR-122	5859	4932	3595	6441	5468	5235	5017	4232	4624	6424	4110	5267
19	28171	RNE-0122	8162(3)	7142	3782	8557(4)	7544(2)	7192	6050	6050	6050	7985(2)	8494(3)	8239
20	28172	IIRRH-137	6453	6281	3501	7334	5092	6113	6483(5)	6086	6285	7033	7643(10)	7338
21	28173	CRHR-148	6004	6329	3128	7663	7386(5)	6318	5433	6591	6012	6483	8351(4)	7417
22	28174	RNE-0148	8064(6)	7202	5976(2)	7757	7565(1)	7278	5683	7005(7)	6344	7445(6)	8077(5)	7761
23	28175	DLRH-6	6775	6941	4155	6676	5437	6310	5750	7016(6)	6383	6426	7196	6811
24	28176	IIRRH-138	6981	6865	3128	6441	5479	6369	6433(6)	6626	6530	6655	4293	5474
25	HRI-174 (NCH)		7585(10)	7621	4015	7710	6637	7080	6900(1)	6554	6727	7083	6680	6882
26	NDR-359 (NCV)		7054	7113	2708	6253	5845	6462	6033	6518	6276	7093(10)	7556	7325
27	PR-121/CR Dhan-300/IR-64/Akshayadhan/Jaya (ZCV)			6485	4482(9)	7757	6389	5707	5250	5859	5554	5509	4019	4764
28	Local Check Variety (LCV)		7152	6891	3361	6112	5301	5904	5517		5517	6391	3712	5051
Exp. Mean			7158	6975	4255	7448	6408	6686	5817	6382	6084	6846	6621	6734
CD(0.05)			538.33		1247.71	632.11	731.02		550.15	557.39		457.13	1080.96	
CV			4.61		17.96	5.2	6.99		5.79	5.35		4.09	10	
D/S			27.6.19		24.6.19	19.6.19	25.6.19		4.7.19	26.7.19		27.6.19	23.6.19	
D/P			25.7.19		26.7.19	22.7.19	29.7.19		1.8.19	20.8.19		16.7.19	19.7.19	
Gross Plot Size (Sq.m)			10.0		10.0	8.79	9.45		10.0	10.0		10.0	10.0	
Net Plot Size(Sq.m)			10.0		7.14	7.09	7.42		10.0	8.75		7.99	7.68	
Zonal Check Variety			CR Dhan-300		CR Dhan-300	CR Dhan-300	CR Dhan-300		CR Dhan-300	CR Dhan-300		IR-64	IR-64	
Local Check Variety			Sarjoo-52		BPT 5204	Pratikshya	Tapaswini		Sraboni			IR 64	Improved Chinoor	

**Appendix-7(contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- V							Zone- VI (contd)				
			RPR	@ ADV	VNR	CH Mean	SND	ANK	Central Mean	KJT	SHR	PDG	MH Mean	NWG
1	28153	TMRH-5559	6667	7090	7695	7181	6032(3)	7054(4)	6630	6045(10)	5370(8)	7073	6315	6627
2	28154	MEPH-153	5907	7071	8047	6977	5411	6980(7)	6687	5478	5370(9)	7294	6107	6813(10)
3	28155	RRX-426	6973	7968(9)	7675	7324	4891	5295	6483	5203	4184	8085(6)	5532	4141
4	28156	US-368	5780	7048	8284(9)	7032	6037(2)	7508(1)	7056	6785(6)	5631(5)	8107(5)	6814	7094(7)
5	28157	NPH-X29	7160(9)	8479(5)	7297	7229	4745	5522	6454	6089(9)	3864	8469(4)	5738	7341(5)
6	28158	RRX-445	6470	8126(7)	8804(4)	7637	4831	6733	7132	7107(2)	4192	7430	6059	8312(2)
7	28159	PHI-19103	7492(6)	8582(3)	8323(8)	7907	5644(10)	6894(8)	6946	5937	4924	7836(9)	6247	9005(1)
8	28160	HRI-202	6770	8044(8)	7972	7371	4912	6986(6)	7184	7539(1)	4529	7800(10)	6353	6903(9)
9	28161	RH-169292	7697(3)	7514	8366(6)	8031	6022(4)	6785	7164	6926(5)	5177	7340	6450	6398
10	28162	PHI-19104	7162(8)	8140(6)	8059(10)	7610	5902(6)	7090(3)	7173	7101(3)	5059	7949(8)	6620	6415
11	28163	PHI-19105	5680	8665(2)	7775	6728	4977	6014	6128	5538	6044(4)	9092(1)	6333	5896
12	28164	RH-169257	7170(7)	7742	6089	6630	6007(5)	6836(10)	6835	5103	4941	6052	5788	7360(3)
13	28165	IIRRH-134	7897(2)	4334	9802(1)	8849	4781	5276	6389	5310	3855	5668	4978	4997
14	28166	PHI-19106	6685	8734(1)	7452	7069	4210	5975	6585	7051(4)	5438(6)	7407	6016	7341(4)
15	28167	MP-3310	7517(5)	7888(10)	4961	6239	4816	6594	6195	5261	4268	7687	5725	4585
16	28168	IIRRH-135	6340(4)	7509	4744	5542	4089	5508	5262	5515	5337(10)	7972(7)	5684	5496
17	28169	CP-800	6263	6519	6457	6360	5669(9)	4786	5809	5724	3737	5673	5118	6114
18	28170	CRHR-122	6150	5723	9682(2)	7916	4589	5464	6070	5444	5421(7)	5104	5204	5889
19	28171	RNE-0122	6303	7511	7261	6782	4518	6812	6896	5365	5311	4404	5282	6680
20	28172	IIRRH-137	6863	7787	8644(5)	7754	4891	5592	6778	5274	4933	6500	5438	4345
21	28173	CRHR-148	6720	6453	9312(3)	8016	4762	6880(9)	7085	5546	4402	5578	5434	5896
22	28174	RNE-0148	5243	7239	7406	6324	4649	7391(2)	6702	6132(7)	7264(1)	8875(2)	6862	7095(6)
23	28175	DLRH-6	7067(10)	7129	7023	7045	5760(7)	6185	6609	6123(8)	6237(3)	7791	6419	5473
24	28176	IIRRH-138	6845	8547(4)	5183	6014	4940	5708	5604	5544	3864	6667	5344	4306
25	HRI-174 (NCH)		6923	7659	8346(7)	7635	5699(8)	7049(5)	6963	5082	6970(2)	8568(3)	6674	5655
26	NDR-359 (NCV)		6240	6387	6515	6377	4967	6180	6425	5126	4470	6441	5437	4722
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		7520	4796	6979	7249	6567(1)	5042	5939	5443	4318	6323	5539	7011(8)
28	Local Check Variety (LCV)		8343(1)	7277	7710	8027	4829	5852	6140	5861	4848	5736	5425	6437
Exp. Mean			6780	7356	7567	7173	5184	6285	6547	5880	4998	7104	5891	6227
CD(0.05)			1089.51	449.58	1021.19		684.93	1001.28		771.72	950.59	681.89		1675.9
CV			9.84	2.98	8.26		8.09	9.8		8.04	11.65	5.88		13.12
D/S			24.6.19	24.6.19	8.6.19		25.6.19	25.6.19		14.6.19	18.6.19	25.6.19		19.6.19
D/P			20.7.19	16.7.19	4.7.19		19.7.19	18.7.19		10.7.19	12.7.19	17.7.19		20.7.19
Gross Plot Size (Sq.m)			10.0	12.0	600		10.0	10.8		11.85	5.85	10.125		9.9
Net Plot Size (Sq.m)				10.0	7.56		7.99	8.19		9.11	3.96	7.38		7.56
Zonal Check Variety			IR-64	IR-64	IR-64		IR-64	IR-64		Akshayadhan	Akshayadhan	Akshayadhan		Akshayadhan
Local Check Variety					Mahamaya		PKV HMT	IR 64		Karjat 5	Ratnagiri4			GAR-13

**Note:** Data of ADV (Advanta) included in the analysis due to low CV

**Appendix-7(contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- VI				Zone- VII (contd)								
			NVS	DBI	GJ Mean	Western Mean	MTU	BAY	AP Mean	IIRR	WGL	Tiera	TS Mean	MND	
1	28153	TMRH-5559	5259	5802	5896	6029	5222(9)	8306(3)	6764	6684(1)	8209(9)	11203(8)	8699	10576	
2	28154	MEPH-153	5631	5735	6060	6054	4282	7495(9)	5888	5615	9107(2)	10431	8384	10786	
3	28155	RRX-426	5219	5062	4807	5316	5044	7350(10)	6197	5408	5828	11777(6)	7671	11876(4)	
4	28156	US-368	6965(4)	6301(5)	6787	6814	4813	4517	4665	6466(2)	8080(10)	11085(9)	8544	10949(10)	
5	28157	NPH-X29	6304(10)	5869	6505	6323	3039	8069(4)	5554	6334(3)	7612		6973	9940	
6	28158	RRX-445	6936(5)	6611(3)	7286	6765	4432	8458(2)	6445	5571	8606(6)	10301	8159	11832(5)	
7	28159	PHI-19103	6287	6760(2)	7351	6792	3405	7585(8)	5495	5822(7)	8661(5)	12110(3)	8864	9716	
8	28160	HRI-202	6743(7)	6199(8)	6615	6619	6780(5)	7283	7032	6202(4)	7403	12364(2)	8656	12927(1)	
9	28161	RH-169292	5518	5399	5771	6126	3648	6333	4991	5691(10)	7227	10863	7927	11358(7)	
10	28162	PHI-19104	5987	6477(4)	6293	6498	7990(1)	8633(1)	8312	5701(9)	10273(1)	10997	8990	11377(6)	
11	28163	PHI-19105	7869(1)	5474	6413	6652	4602	6350	5476	5977(5)	8885(3)	10609	8490	11340(8)	
12	28164	RH-169257	6032	5948	6447	5906	4051	7667(6)	5859	5661	8323(8)	11212(7)	8399	10299	
13	28165	IIRRH-134	3754	4943	4565	4755	5209(10)	6568	5889	4884	4077	10246	6403	6055	
14	28166	PHI-19106	7237(2)	6962(1)	7180	6906	4166	7625(7)	5896	5532	8755(4)	11925(5)	8737	12539(2)	
15	28167	MP-3310	6646(8)	5647	5626	5682	7076(4)	5622	6349	5037	7817	9873	7576	9899	
16	28168	IIRRH-135	5308	5461	5422	5848	3253	7147	5200	4773	5873	8248	6298	1114	
17	28169	CP-800	4366	6007(10)	5496	5270	4449	7041	5745	2842	7059	9661	6520	10055	
18	28170	CRHR-122	3730	6035(9)	5218	5270	4972	5774	5373	4248	6324	6629	5734	3664	
19	28171	RNE-0122	5908	5980	6190	5608	5142	7975(5)	6559	4809		13011(1)	8910	10831	
20	28172	IIRRH-137	5798	4549	4897	5233	3711	7177	5444	5040	4765	10479	6761	7841	
21	28173	CRHR-148	5616	6007	5839	5508	6114(7)	4652	5383		7048	11009(10)	9028	9652	
22	28174	RNE-0148	7209(3)	6281(6)	6862	7143	4110	6858	5484		8423(7)	11929(4)	10176	12048(3)	
23	28175	DLRH-6	6406(9)	5318	5732	6225	3838	6828	5333	4991	5119	9371	6493	9799	
24	28176	IIRRH-138	5950	5232	5163	5260	4634	6447	5540	4662	5967	9375	6668	8861	
25	HRI-174 (NCH)		6834(6)	5876	6122	6498	7941(2)	6901	7421	5819(8)	6746	10711	7759	10986(9)	
26	NDR-359 (NCV)		5025	4802	4850	5098	6129(6)	4800	5464	5898(6)	7555	10673	8042	8200	
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		4974	6207(7)	6064	5713	5305(8)	6850	6078	4881	8006	9721	7536	7895	
28	Local Check Variety (LCV)		4940	5180	5519	5500	7604(3)	6445	7024	3986	7052		5519	9455	
Exp. Mean			5873	5790	5963	5979	5034	6884	5959	5328	7363	10608	7783	9710	
CD(0.05)			936.12	455.28			602.1	859.25		1062.69	1005.85	1249.42		1282.51	
CV			9.76	4.82			7.32	7.64		12.21	11.1	7.21		8.09	
D/S			19.6.19	8.6.19			5.7.19	1.7.19		14.6.19	25.6.19	21.6.19			
D/P			10.7.19	11.7.19			29.7.19	24.7.19		6.8.19	26.7.19	18.7.19			
Gross Plot Size (Sq.m)			9.18	12.96			10.56	12.0		8.44	8.91	6.0			
Net Plot Size (Sq.m)			7.05	10.2			8.1	10.0		6.73	6.72	5.0			
Zonal Check Variety			Akshayadhan	Akshayadhan			Jaya	Jaya		Jaya	Jaya	Jaya		Jaya	
Local Check Variety				GAR-14			MTU 1075	MTU 1001		DRR Dhan 38	Somnath			Thanu	

**Appendix-7(contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- VII					Over All Mean
			@ BRM	KA Mean	CBT	@ KRK	Southern Mean	
1	28153	TMRH-5559	4030(8)	10576	6549	4260	8107	6958
2	28154	MEPH-153	4212(7)	10786	6672	5465	7770	6766
3	28155	RRX-426	2909	11876	6959	5055	7749	6609
4	28156	US-368	4242(5)	10949	8141(6)	6670(7)	7721	7151
5	28157	NPH-X29	2455	9940	8260(5)	5385	7209	6757
6	28158	RRX-445	3455	11832	6664	6940(5)	7981	7265
7	28159	PHI-19103	3061	9716	7942(8)	5675	7892	7234
8	28160	HRI-202	3424	12927	9124(1)	4850	8869	7482
9	28161	RH-169292	3242	11358	6474	8645(2)	7371	6933
10	28162	PHI-19104	4333(4)	11377	8604(3)	5340	9082	7562
11	28163	PHI-19105	4364(2)	11340	8494(4)	7910(3)	8037	7185
12	28164	RH-169257	4030(9)	10299	4600	6235(8)	7402	6778
13	28165	IIRRH-134	3667	6055	7329(9)	5160	6339	5487
14	28166	PHI-19106	3515	12539	5301	7255(4)	7977	7222
15	28167	MP-3310	3091	9899	5605	5465	7276	6680
16	28168	IIRRH-135	1939	1114	6020	5775	5204	5577
17	28169	CP-800	2394	10055	6928		6862	5902
18	28170	CRHR-122	2333	3664	4772	6155(9)	5198	5378
19	28171	RNE-0122	3848	10831	6831		8100	6957
20	28172	IIRRH-137	2758	7841	4745	5545	6251	6052
21	28173	CRHR-148	4333(3)	9652	6170	5055	7441	6380
22	28174	RNE-0148	4212(6)	12048	7956(7)		8554	7362
23	28175	DLRH-6	3758	9799	6778	6035(10)	6675	6420
24	28176	IIRRH-138	1879	8861	6721	6935(6)	6667	6098
25	HRI-174 (NCH)		3939(10)	10986	8705(2)	9260(1)	8259	7161
26	NDR-359 (NCV)		2606	8200	6112	5765	7052	6285
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		2515	7895	5133	5010	6828	6039
28	Local Check Variety (LCV)		4909(1)	9455	7012(10)	5825	6926	6099
Exp. Mean			3409	9710	6807	6067	7386	6635
CD(0.05)			1008.49		1124.48	71.61		
CV			14.42		10.12	0.64		
D/S			17.6.19		8.7.19	4.9.19		
D/P			16.7.19		9.8.19	1.10.19		
Gross Plot Size (Sq.m)			10.0		9.45	13.5		
Net Plot Size (Sq.m)			8.25		7.56	10.0		
Zonal Check Variety			Jaya		Jaya	Jaya		
Local Check Variety			MO-4			Improved Samba Mahsuri		

Note: Data of BRM (Brahmavar) not included in the analysis due to low experimental mean, Data of KRK (Karaikal) included in the analysis due to low CV

**Appendix-8: Days to 50% Flowering (DFF) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	Zone- II				Zone-III (contd)							
			KUL	PNT	LDN	Northern Mean	MSD	NZV	TMT	VRN	UP Mean	PSA	SBR	PHI
1	28153	TMRH-5559	99	107	106	104	100	110	97	106	103	104	92	85
2	28154	MEPH-153	99	105	103	102	102	108	92	93	99	98	93	85
3	28155	RRX-426	102	108	103	104	97	104	95	98	98	98	91	86
4	28156	US-368	106	111	106	108	100	108	100	107	104	107	93	94
5	28157	NPH-X29	107	112	107	109	105	105	102	107	105	104	95	93
6	28158	RRX-445	105	112	105	107	108	109	100	101	105	102	95	90
7	28159	PHI-19103	106	111	107	108	110	109	100	112	108	107	93	89
8	28160	HRI-202	105	112	107	108	106	107	101	104	104	100	90	90
9	28161	RH-169292	102	107	103	104	105	106	96	107	103	102	93	86
10	28162	PHI-19104	103	107	106	105	108	105	96	101	103	102	94	89
11	28163	PHI-19105	104	109	104	106	99	105	95	104	101	102	93	86
12	28164	RH-169257	103	105	103	104	92	106	95	97	98	98	92	86
13	28165	IIRRH-134	102	107	103	104	94	105	96	103	99	100	89	86
14	28166	PHI-19106	108	115	106	110	108	104	102	107	105	105	96	92
15	28167	MP-3310	108	112	107	109	107	107	101	109	106	104	98	92
16	28168	IIRRH-135	111	116	108	111	104	103	103	107	104	104	98	93
17	28169	CP-800	91	96	98	95	100	104	86	82	93	92	89	80
18	28170	CRHR-122	105	109	106	107	104	105	96	101	102	95	93	85
19	28171	RNE-0122	104	108	107	106	98	104	97	97	99	111		88
20	28172	IIRRH-137	104	109	106	106	102	102	98	103	101	102	93	90
21	28173	CRHR-148	104	114	105	108	110	100	105	112	107	102	97	105
22	28174	RNE-0148	105	110	107	107	100	104	96	100	100	105		89
23	28175	DLRH-6	100	110	107	106	100	105	102	108	104	89	93	93
24	28176	IIRRH-138	105	111	107	108	93	99	98	102	98	100	90	88
25	HRI-174 (NCH)		105	112	107	108	103	107	98	107	104	102	95	90
26	NDR-359 (NCV)		102	106	105	105	99	103	96	99	99	103	93	87
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		105	110	103	106	118	102		127	116	112	106	110
28	Local Check Variety (LCV)		102	102	102	102	108	106	99	107	105	106	105	80
Exp. Mean			104	109	105	106	103	105	98	104	103	102	94	90

**Appendix-8 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-III						Zone-IV			Zone- V (contd)		
			SYN	BH Mean	RCI	CHN	CTK	Eastern Mean	TTB	ARD	NE Mean	JBP	WRS	MP Mean
1	28153	TMRH-5559	98	95	102	103	100	100	103	101	102	99	96	98
2	28154	MEPH-153	98	94	98	102	101	97	99	94	97	97	95	96
3	28155	RRX-426	97	93	97	105	99	97	100	97	98	96	93	95
4	28156	US-368	104	99	101	109	102	102	102	94	98	101	99	100
5	28157	NPH-X29	101	98	104	111	100	102	102	91	96	99	99	99
6	28158	RRX-445	103	98	103	110	101	102	101	94	98	98	99	99
7	28159	PHI-19103	103	98	102	111	101	103	104	94	99	97	96	97
8	28160	HRI-202	104	96	101	110	101	101	106	96	101	100	96	98
9	28161	RH-169292	97	95	100	101	101	99	99	95	97	99	94	97
10	28162	PHI-19104	101	97	102	108	101	101	100	93	97	100	98	99
11	28163	PHI-19105	103	96	102	109	103	100	104	97	100	100	97	98
12	28164	RH-169257	102	94	100	105	102	98	100	99	99	96	97	97
13	28165	IIRRH-134	96	93	100	97	100	97	100	94	97	100	92	96
14	28166	PHI-19106	103	99	102	111	100	103	105	103	104	100	95	98
15	28167	MP-3310	104	100	104	109	104	104	104	99	101	101	98	99
16	28168	IIRRH-135	102	99	101	109	98	102	100	101	100	96	95	96
17	28169	CP-800	94	89	93	99	99	93	95	99	97	93	88	91
18	28170	CRHR-122	99	93	96	108	100	99	100	96	98	96	95	96
19	28171	RNE-0122	103	101	103	107	103	101	102	93	98	99	95	97
20	28172	IIRRH-137	100	96	103	109	99	100	100	90	95	96	92	94
21	28173	CRHR-148	103	102	104	112	101	105	101	96	98	103	100	101
22	28174	RNE-0148	99	97	102	105	100	100	99	92	95	100	98	99
23	28175	DLRH-6	104	95	101	103	102	100	105	95	100	103	100	101
24	28176	IIRRH-138	98	94	96	105	99	97	103	93	98	96	86	91
25	HRI-174 (NCH)		104	98	106	107	102	102	105	98	101	100	98	99
26	NDR-359 (NCV)		95	95	98	106	101	98	100	93	97	103	92	97
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)			109	109	120	104	112	106	97	101	91	97	94
28	Local Check Variety (LCV)		103	99	108	110	100	103	100		100	94	125	110
Exp. Mean			101	97	101	107	101	101	102	95	99	98	97	97

**Appendix-8 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- V							Zone- VI (contd)				
			RPR	@ ADV	VNR	CH Mean	SND	ANK	Central Mean	KJT	SHR	PDG	MH Mean	NWG
1	28153	TMRH-5559	101	88	103	102	95	106	100	102	95	97	99	102
2	28154	MEPH-153	100	86	98	99	97	107	99	98	100	91	99	103
3	28155	RRX-426	96	87	98	97	92	105	97	100	93	93	97	104
4	28156	US-368	100	93	104	102	98	105	101	101	100	95	100	103
5	28157	NPH-X29	95	90	102	99	97	103	99	103	99	98	100	104
6	28158	RRX-445	95	89	100	98	92	103	98	100	108	95	100	101
7	28159	PHI-19103	91	88	103	97	96	108	99	102	99	93	100	103
8	28160	HRI-202	92	90	99	96	97	100	97	100	100	93	98	105
9	28161	RH-169292	97	88	101	99	96	104	98	99	92	91	96	102
10	28162	PHI-19104	98	89	103	100	97	108	101	102	98	94	100	101
11	28163	PHI-19105	99	88	99	99	96	108	100	100	101	91	99	104
12	28164	RH-169257	91	86	97	94	98	101	97	102	97	92	98	97
13	28165	IIRRH-134	97	87	102	99	94	104	98	103	93	90	97	100
14	28166	PHI-19106	98	90	105	102	97	107	100	102	100	97	101	104
15	28167	MP-3310	96	92	91	94	96	107	98	105	100	93	100	102
16	28168	IIRRH-135	90	86	92	91	93	104	95	96	93	86	95	104
17	28169	CP-800	91	81	97	94	91	95	93	94	94	91	93	98
18	28170	CRHR-122	97	84	101	99	93	105	98	97	92	93	96	105
19	28171	RNE-0122	99	89	100	100	95	107	99	99	99	97	99	100
20	28172	IIRRH-137	98	87	111	105	96	108	100	101	97	93	99	103
21	28173	CRHR-148	100	95	100	100	101	111	102	104	92	97	101	104
22	28174	RNE-0148	87	90	106	96	95	106	99	103	100	92	99	102
23	28175	DLRH-6	100	94	98	99	95	111	101	103	101	90	100	105
24	28176	IIRRH-138	94	83	93	94	95	99	94	97	91	88	94	101
25	HRI-174 (NCH)		93	91	101	97	97	108	100	100	97	95	100	102
26	NDR-359 (NCV)		99	88	98	99	99	109	100	98	95	92	99	100
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		92	77	99	95	88	97	94	102	110	97	99	105
28	Local Check Variety (LCV)		95	90	102	98	92	104	102	101	99	99	99	104
Exp. Mean			96	88	100	98	95	105	99	101	98	93	98	102

**Appendix-8 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- VI				Zone- VII (contd)							
			NVS	DBI	GJ Mean	Western Mean	MTU	BAY	AP Mean	IIRR	WGL	Tiera	TS Mean	MND
1	28153	TMRH-5559	92	102	98	98	90	123	107	110	102	100	104	105
2	28154	MEPH-153	91	101	98	97	90	122	106	107	97	97	101	102
3	28155	RRX-426	88	100	97	96	89	122	105	108	97	95	100	104
4	28156	US-368	94	106	101	100	93	125	109	110	104	101	105	103
5	28157	NPH-X29	94	106	101	101	95	125	110	107	102	99	103	104
6	28158	RRX-445	93	107	100	101	95	124	109	109	104	99	104	100
7	28159	PHI-19103	93	105	100	99	93	123	108	105	102	96	101	97
8	28160	HRI-202	90	105	100	99	94	126	110	112	105	100	106	102
9	28161	RH-169292	91	101	98	96	92	122	107	104	101	98	101	101
10	28162	PHI-19104	94	104	100	99	94	122	108	108	100	99	103	103
11	28163	PHI-19105	93	104	100	99	97	124	110	111	103	97	103	101
12	28164	RH-169257	92	102	97	97	94	123	109	113	104	100	106	101
13	28165	IIRRH-134	88	98	95	95	87	117	102	106	98	96	100	101
14	28166	PHI-19106	92	106	101	100	95	125	110	115	103	97	105	101
15	28167	MP-3310	93	107	101	100	95	126	110	113	105	101	106	101
16	28168	IIRRH-135	88	108	100	96	89	123	106	105	100	94	100	90
17	28169	CP-800	80	91	90	91	86	119	102	108	90	92	97	100
18	28170	CRHR-122	88	108	100	97	86	122	104	104	98	94	99	94
19	28171	RNE-0122	89	104	98	98	89	126	108	105		100	102	100
20	28172	IIRRH-137	89	103	98	98	90	122	106	106	95	94	98	87
21	28173	CRHR-148	98	105	102	100	95	126	110		109	105	107	102
22	28174	RNE-0148	93	108	101	100	87	122	105		98	98	98	97
23	28175	DLRH-6	93	107	102	100	91	126	108	110	106	101	106	101
24	28176	IIRRH-138	85	105	97	94	86	116	101	103	94	93	97	88
25	HRI-174 (NCH)		92	105	99	97	95	123	107	106	104	100	102	101
26	NDR-359 (NCV)		92	104	99	99	91	123	109	108	100	98	103	101
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		93	107	101	102	90	122	106	104	93	97	98	102
28	Local Check Variety (LCV)		88	89	94	97	113	125	119	109	106		108	99
Exp. Mean			91	103	99	98	92	123	108	108	101	98	102	100

**Appendix-8 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No.	Name	(contd) Zone- VII					Over All Mean
			@ BRM	KA Mean	CBT	@ KRK	Southern Mean	
1	28153	TMRH-5559	110	105	108	85	106	101
2	28154	MEPH-153	109	102	106	90	103	99
3	28155	RRX-426	110	104	102	85	102	99
4	28156	US-368	113	103	106	93	106	103
5	28157	NPH-X29	113	104	106	89	105	102
6	28158	RRX-445	109	100	106	90	105	102
7	28159	PHI-19103	106	97	103	84	103	102
8	28160	HRI-202	104	102	107	91	107	102
9	28161	RH-169292	105	101	105	91	103	100
10	28162	PHI-19104	112	103	109	89	105	101
11	28163	PHI-19105	110	101	104	87	105	101
12	28164	RH-169257	110	101	108	86	106	100
13	28165	IIRRH-134	107	101	101	85	101	98
14	28166	PHI-19106	105	101	105	86	106	103
15	28167	MP-3310	107	101	108	90	107	103
16	28168	IIRRH-135	93	90	98	80	100	100
17	28169	CP-800	93	100	101		99	94
18	28170	CRHR-122	95	94	101	82	100	99
19	28171	RNE-0122	107	100	111		105	101
20	28172	IIRRH-137	94	87	103	80	100	100
21	28173	CRHR-148	118	102	109	88	108	104
22	28174	RNE-0148	107	97	101		101	100
23	28175	DLRH-6	107	101	99	85	105	102
24	28176	IIRRH-138	95	88	94	80	96	97
25	HRI-174 (NCH)		111	101	102	88	104	102
26	NDR-359 (NCV)		107	101	105	85	104	100
27	PR-121/CR Dhan-300/ IR-64 Akshayadhan/Jaya (ZCV)		109	102	106	84	102	104
28	Local Check Variety (LCV)		121	99	108	93	110	103
Exp. Mean			106	100	104	86	104	101

**Appendix 9: Quality Characteristics of hybrids in IHRT-Medium, Kharif 2019**

S No.	IET No	Name	HULL	MILL	HRR	KL	KB	L/B	Grain Type	Grain Chalk	ASV	AC	GC
1	28153	TMRH-5559	81.2	70.2	49.5	6.58	2.15	3.06	LS	VOC	4.3	24.49	59
2	28154	MEPH-153	77.9	69.0	61.7	6.39	2.19	2.91	LB	VOC	4.4	25.37	37
3	28155	RRX-426	79.1	69.9	54.8	5.33	2.18	2.44	SB	VOC	3.0	24.87	45
4	28156	US-368	80.3	69.1	43.1	5.73	2.33	2.45	SB	VOC	5.2	25.98	46
5	28157	NPH-X29	80.3	68.7	48.8	5.72	2.32	2.46	SB	VOC	4.0	26.84	61
6	28158	RRX-445	80.1	71.6	63.2	5.76	2.07	2.78	MS	VOC	5.7	25.02	22
7	28159	PHI-19103	80.1	70.0	53.1	6.44	2.19	2.94	LB	VOC	4.0	26.54	39
8	28160	HRI-202	80.0	71.0	60.4	6.13	2.31	2.65	LB	VOC	4.0	22.58	56
9	28161	RH-169292	80.6	67.5	35.0	6.45	2.2	2.93	LB	VOC	3.5	22.05	55
10	28162	PHI-19104	78.2	67.0	48.5	6.72	2.28	2.94	LB	VOC	3.0	24.61	67
11	28163	PHI-19105	80.7	69.9	55.2	6.44	2.2	2.92	LB	VOC	3.0	23.08	70
12	28164	RH-169257	80.1	70.9	57.9	5.73	2.37	2.41	SB	VOC	3.5	24.78	24
13	28165	IIRRH-134	81.4	70.8	49.6	6.57	2.38	2.76	LB	VOC	5.3	25.81	37
14	28166	PHI-19106	79.8	69.1	58.7	6.27	2.22	2.82	LB	VOC	4.6	24.72	46
15	28167	MP-3310	78.9	69.8	54.8	5.56	2.2	2.52	MS	VOC	4.0	23.29	31
16	28168	IIRRH-135	79.3	69.6	59.2	5.42	2.19	2.47	SB	VOC	4.0	25.81	48
17	28169	CP-800	80.7	71.1	61.5	6.32	2.14	2.95	LB	VOC	4.8	23.96	60
18	28170	CRHR-122	78.8	70.4	64.9	6.42	2.15	2.98	LB	VOC	5.5	24.75	44
19	28171	RNE-0122	79.2	70.3	56.3	5.99	2.34	2.55	MS	VOC	5.0	26.31	40
20	28172	IIRRH-137	79.8	71.2	49.8	5.67	2.21	2.56	MS	VOC	4.0	24.93	31
21	28173	CRHR-148	-	-	-	-	-	-	-	-	-	-	-
22	28174	RNE-0148	-	-	-	-	-	-	-	-	-	-	-
23	28175	DLRH-6	81.0	70.9	45.4	5.96	2.17	2.74	MS	VOC	4.6	23.14	48
24	28176	IIRRH-138	79.0	69.8	53.3	5.57	2.16	2.57	MS	VOC	4.0	24.34	52
25	HRI-174 (NCH)		80.4	70.8	55.3	6.36	2.24	2.83	LB	VOC	4.6	25.87	57
26	NDR-359 (NCV)		79.5	71.2	64.5	6.5	2.46	2.64	LB	VOC	4.0	24.55	25
27	Jaya (ZCV)		77.6	67.2	41.7	5.49	2.48	2.21	SB	VOC	7.0	24.66	22
28	DRR Dhan 38 (LCV)		-	-	-	-	-	-	-	-	-	-	-

HULL: Hulling (%) Milling (%); HRR rice recovery (%); KL: Kernal length (mm); KB: Kernal breadth (mm); SS: short slender; L/B Length and breadth ratio; Grain Chalk: Grain Chalkiness; VOC: Very occasionally present; A: Absent; MS: Medium slender; ASV: Alkali spreading value; AC: Amylose content (%); GC: Gel consistency; LB Long bold; SB: short bold; LS: Long slender

**Appendix-10: Grain Yield (kg/ha) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	Zone – III										Zone – IV		
			MSD	NZV	UP Mean	@ PSA	@ SYN	@ BH Mean	@ RCI	CHN	CTK	Eastern Mean	TTB	ARD	North-Eastern Mean
1	28177	MEPH-155	5611(3)	6884(9)	6248	3233	6392	4812	4876(3)	5877	6612(8)	6246	6183(2)	4148	5166
2	28178	US-308	5465(4)	7606(3)	6536	4100(4)	6095	5098	4167(5)	7475(6)	6666(6)	6803	4917	5092(2)	5004
3	28179	NPH-X28	4234(9)	7905(1)	6070	3433	6686(10)	5060	3812(8)	6441	6579(9)	6290	4900	4506(7)	4703
4	28180	PHI-19101	4193	7627(2)	5910	4400(3)	6956(8)	5678	4433(4)	7099(9)	5541	6115	5400(5)	5122(1)	5261
5	28181	HRI-203	4276(8)	7475(5)	5876	2833	7187(6)	5010	3635	7945(2)	7879(1)	6894	4800	4930(3)	4865
6	28182	MTUHR-2105	4339(7)	2877	3608	3100	7148(7)	5124	1241	5736	5098	4512	4350	3330	3840
7	28183	MTUHR-2107	3796	3491	3644	2233		2233	1152	6159	6659(7)	5026	3450	3487	3468
8	28184	TNTRH-99	4589(5)	6893(8)	5741	3933(6)	5845	4889	5142(1)	7287(7)	7721(2)	6622	6000(3)	4576(4)	5288
9	28185	CRHR-145	3421	5852	4636	3933(5)	7908(1)	5921	3679(10)	7240(8)	5543	5514	4800	4519(6)	4659
10	28186	TNRH-294	3525	7032(7)	5279	5733(1)	6174	5953	3723(9)	6911	7325(3)	6198	5400(6)	3954	4677
11	28187	CRHR-150	3588	7475(6)	5531	2633	7687(2)	5160	3856(7)	8745(1)	6407	6554	5950(4)	4438(9)	5194
12	JKRH-3333 (NCH-1)		5924(1)	7494(4)	6709	2667	7417(4)	5042	3679	7851(3)	5256	6631	6600(1)	3394	4997
13	27P63 (NCH-2)		4068	6770(10)	5419	3633(8)	6004	4819	4920(2)	7616(5)	6011	6116	5150	4461(8)	4805
14	WGL-14 (NCV-1)		5799(2)	6557	6178	4467(2)	7206(5)	5836	2748	5689	6693(5)	6184	4883	4537(5)	4710
15	BPT-5204 (NCV-2)			5819	5819	2500	6929(9)	4714	4122(6)	7757(4)	6375	6650	5250(7)	4273	4762
16	Improved Samba Mahsuri/Ketekejoha/ Karjat-6/ADT-49 (ZCV)		4547(6)	4598	4573	3900(7)	7484(3)	5692	2571	4795	6780(4)	5180	4650	3720	4185
Exp Mean			4492	6397	5486	3546	6874	5210	3610	6914	6447	6096	5168	4280	4724
CD(0.05)			348.7	1666.29		446	448.12		1052.09	574.63	795.64		681.59	439.21	
CV			4.64	12.22		7.54	3.9		17.48	4.98	7.4		7.91	6.15	
D/S			19.6.19			28.6.19	27.6.19		24.6.19	19.6.19	25.6.19		1.7.19	12.7.19	
D/P			23.7.19			29.7.19	25.7.19		26.7.19	22.7.19	30.7.19		4.8.19	13.8.19	
Gross Plot Size (Sq.m)			10.0			7.5	10.0		10.0	8.79	9.99			13.5	
Net Plot Size (Sq.m)			7.99	10.0		5.0	10.0		7.52	7.09	7.875		10.0	13.5	
Zonal Check Variety			I.S.M	I.S.M		I.S.M	I.S.M		I.S.M	I.S.M	I.S.M		Ketekejoha	Ketekejoha	

**Note: Data of PSA (Pusa) and RCI (Ranchi) not included in the analysis due to low Experimental Mean; Data of SYN (Syngenta) not included in the analysis due to low CV**

**Appendix-10 (contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	Zone-V										Central Mean
			JBP	WRS	MP Mean	RPR	@ ADV	VNR	CH Mean	SND	SKL	ANK	
1	28177	MEPH-155	6386(2)	6328(9)	6357	5535	7975(7)	8423(6)	6979	4965(9)	7589(1)	5567(2)	6399
2	28178	US-308	5802(6)	8003(3)	6903	8398(1)	8180(5)	8127(9)	8262	4341	7071(2)	5214(7)	6708
3	28179	NPH-X28	6449(1)	4340	5395	6847(5)	7521(8)	5680	6264	5717(3)	5035	5272(5)	5620
4	28180	PHI-19101	6005(3)	9049(1)	7527	5450	8026(6)	9136(3)	7293	5095(8)	5540(7)	5646(1)	6560
5	28181	HRI-203	5746(7)	5148	5447	6717(6)	8731(3)	8629(5)	7673	3928	4118	5113(9)	5628
6	28182	MTUHR-2105	525	7548(4)	4036	7167(3)	2611	2866	5016	5810(2)	2950	2296	4166
7	28183	MTUHR-2107	909	5260	3085	3740	3579	3904	3822	5696(4)	3158	2910	3654
8	28184	TNTRH-99	5165	5048	5107	2963	8766(1)	8006(10)	5485	4474	5682(5)	5275(4)	5231
9	28185	CRHR-145	5690(8)	6628(8)	6159	3437	6216	10465(1)	6951	5580(5)	5407(8)	5316(3)	6075
10	28186	TNRH-294	5826(4)	4123	4974	6107(8)	7180(10)	7469	6788	4584	5198	4328	5376
11	28187	CRHR-150	5670(9)	8989(2)	7329	7217(2)	7238(9)	9563(2)	8390	5966(1)	5590(6)	5181(8)	6882
12	JKRH-3333 (NCH-1)		5814(5)	4418	5116	5112	8457(4)	8337(8)	6724	5420(6)	6771(3)	4850	5817
13	27P63 (NCH-2)		5644(10)	4609	5127	6623(7)	8761(2)	7412	7018	4899	6479(4)	5260(6)	5847
14	WGL-14 (NCV-1)		4871	6827(7)	5849	6103(9)	6272	9018(4)	7561	3887	5361(9)	5106(10)	5882
15	BPT-5204 (NCV-2)		4815	6871(6)	5843	6910(4)	5470	8342(7)	7626	3522	4405	4967	5690
16	Improved Samba Mahsuri/ Ketekejoha/Karjat-6/ADT-49 (ZCV)		4863	6966(5)	5915	4477	5394	7810	6143	5179(7)	3667	4958	5417
Exp Mean			5011	6260	5636	5800	6899	7699	6750	4941	5251	4829	5685
CD(0.05)			413.11	945.44		976.55	306.5	933.35		763.09	981.24	574.64	
CV			4.94	9.06		10.1	2.08	7.27		9.26	11.21	7.14	
D/S			27.56.19	24.6.19		24.6.19	24.6.19	7.6.19		25.6.19	25.6.19	25.6.19	
D/P			18.7.19	14.7.19		17.7.109	16.7.19	2.7.19		18.7.19	19.7.19	28.7.19	
Gross Plot Size (Sq.m)			10.0	10.0		10.0	12.0	600		10.0	10.0	10.8	
Net Plot Size (Sq.m)			7.99	7.68		10.0	10.0	9.72		7.99	7.99	8.19	
Zonal Check Variety			I.S.M	I.S.M		I.S.M	I.S.M	I.S.M		I.S.M	I.S.M	I.S.M	

**Note: Data of ADV (Advanta) not included in the analysis due to low CV**

**Appendix-10(contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	Zone-VI									Zone-VII (contd)			
			KJT	SHR	PDG	MH Mean	NWG	NVS	@ DBI	GJ Mean	Western Mean	MTU	BPT	BAY	AP Mean
1	28177	MEPH-155	6284(6)	7465(1)	5383(7)	6209	6344(2)	4882(10)	6059(4)	5613	6072	4966	6564(4)	6970(4)	6167
2	28178	US-308	6561(5)	5833(4)	5410(6)	5739	4937(10)	5159(8)	5444	5048	5580	5534(4)	5380	4740	5218
3	28179	NPH-X28	5817	5394(5)	6670(2)	5651	5103(6)	5318(7)	5497	5211	5660	4258	6818(2)	5905	5660
4	28180	PHI-19101	5469	5145(6)	5289(8)	5364	6145(3)	5979(2)	5953(5)	6062	5605	6967(3)	6727(3)	7783(1)	7159
5	28181	HRI-203	6906(2)	6551(3)	6137(3)	5459	6929(1)	4337	6582(2)	5633	6172	5191(6)	5145	7083(3)	5807
6	28182	MTUHR-2105	6258(7)	3466	2709	3915	2143	1925	4448	2034	3300	4776	5157	4733	4889
7	28183	MTUHR-2107	5104	3438	3224	3922	4562	3157	6062(3)	3859	3897	4626	5217	5503	5116
8	28184	TNTRH-99	7375(1)	3721	5719(5)	5374	5043(7)	4578	5931(6)	4810	5287	3926	4921	7417(2)	5421
9	28185	CRHR-145	5051	4745	4576	5113	4984(9)	6254(1)	5686(8)	5619	5122	3683	5640	6870(5)	5398
10	28186	TNRH-294	6702(4)	6817(2)	5955(4)	5598	3743	5463(6)	5220	4603	5736	5465(5)	4867	5650	5327
11	28187	CRHR-150	5042	4780	4720	5213	5019(8)	5907(3)	5303	5463	5094	4042	5519	5653	5072
12	JKRH-3333 (NCH-1)		5498	4624	6761(1)	5654	5184(4)	5760(4)	6647(1)	5472	5565	3695	6558(5)	6743(6)	5665
13	27P63 (NCH-2)		6795(3)	4120	5247(9)	5467	5112(5)	4933(9)	5784(7)	5022	5241	6970(2)	6836(1)	6150(7)	6652
14	WGL-14 (NCV-1)		5051	4965(7)	3450	4637	4572	4420	5088	4496	4492	5103(7)	5731(6)	4481	5105
15	BPT-5204 (NCV-2)		5810	4468	4630	4633	4406	5552(5)	4818	4979	4973	7161(1)	5248	5453	5954
16	Improved Samba Mahsuri/ Ketekejoha/Karjat-6/ ADT-49 (ZCV)		6062(8)	3854	4375	4683	3599	4092	4709	3845	4396	4935	4632	5283	4950
<b>Exp Mean</b>			5987	4962	5016	5164	4864	4857	5577	4861	5137	5081	5685	6026	5597
CD(0.05)			738.78	947.08	605.44		1557.22	996.22	338.28			577.62	1174.79	679.67	
CV			7.4	11.45	7.24		15.02	12.3	3.64			6.82	12.39	6.76	
D/S			14.6.19	18.6.19	25.6.19		19.6.19	19.6.19	8.6.19			5.7.19	12.8.19	1.7.19	
D/P			11.7.19	11.7.19	18.7.19		20.7.19	6.7.19	11.7.19			29.7.19	7.9.19	24.7.19	
Gross Plot Size (Sq.m)			8.17	8.1	11.97		9.9	13	12.96			10.56	7.5	12	
Net Plot Size (Sq.m)			5.87	5.76	9.18		7.56	10.54	10.2			8.1	5.52	10	
Zonal Check Variety			Karjat-6	Karjat-6	Karjat-6		Karjat-6	Karjat-6	Karjat-6			ADT-49	ADT-49	ADT-49	

**Note:** Data of DBI (Dabhoi) not included in the analysis due to low CV

**Appendix-10(contd): Grain Yield (kg/ha) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VII											Over all Mean	
			IIRR	WGL	TS Mean	MND	@ BRM	MLG	@ MGD	@ SRS	KA Mean	CBT	@ KRK		Southern Mean
1	28177	MEPH-155	6697(6)	6005(4)	6351	11811(1)	2879(9)	4260	9378(1)	4980(2)	8035	6042	4775	6664	6299
2	28178	US-308	6332(8)	6214(1)	6273	8086(10)	3273(4)	5340(4)	9112(2)	4026(4)	6713	7607(6)	5493	6154	6204
3	28179	NPH-X28	6859(3)	5620(5)	6240	9646(4)	2576	4180	8698(3)	3964(6)	6913	8084(2)		6421	5907
4	28180	PHI-19101	8015(2)	6044(3)	7030	9406(6)	3121(5)	5000(7)	7129(9)	4509(3)	7203	8033(4)	5727	7247	6419
5	28181	HRI-203	6284(9)	5571(6)	5928	8881(7)	3303(2)	3220	7209(8)	3520(10)	6051	7380(7)	6760(7)	6095	6012
6	28182	MTUHR-2105	1692	3842	2767	1203	2788	1900	1744	1274	1551	3755	7770(5)	3382	3786
7	28183	MTUHR-2107	1651	3227	2439	1886	2939(7)	2100	2372	1761	1993	4741	6097	3619	3887
8	28184	TNTRH-99	5442	5273(8)	5357	11652(2)		5460(3)	7507(7)	3818(9)	8556	6542	9147(2)	6329	5798
9	28185	CRHR-145	5909	4831	5370	8468(8)	2818(10)	5080(5)	7746(6)	3336	6774	7051(9)	6450(9)	5942	5655
10	28186	TNRH-294	5687	4717	5202	8104(9)	2394	5020(6)	6001	3057	6562	8042(3)	9073(3)	5944	5693
11	28187	CRHR-150	6010(10)	4986	5498	6967	3061(6)	4900(9)	8205(4)	3905(7)	5934	7973(5)	4467	5756	6011
12	JKRH-3333 (NCH-1)		6764(4)	4884	5824	11403(3)	2909(8)	5660(2)	8122(5)	3983(5)	8531	7107(8)	9357(1)	6602	6072
13	27P63 (NCH-2)		8228(1)	4338	6283	9417(5)	3303(2)	5700(1)	3546	5073(1)	7558	8343(1)	8507(4)	6998	6046
14	WGL-14 (NCV-1)		6353(7)	6057(2)	6205	7031	2182	4540(10)	5012	3890(8)	5786	6649	6473(8)	5743	5528
15	BPT-5204 (NCV-2)		6728(5)	5398(7)	6063	6125	2121	4980(8)	6738(10)	3376	5552	5741	4653	5854	5640
16	Improved Samba Mahsuri/Ketekejoha/ Karjat-6/ ADT-49 (ZCV)			3123	3123	7627	4394(1)	3800	2269	1525	5713	3616	7627(6)	4716	4880
Exp Mean			5910	5008	5372	7982	2937	4446	6299	3500	6214	6669	6825	5842	5615
CD(0.05)			1514.04	890.29		861.84	587.63	589.83	4084.52	1649.8		830.88	60.76		
CV			15.32	10.66		6.48	9.33	6.23	30.43	22.12		7.47	0.53		
D/S			24.619	25.6.19			17.6.19	7.7.19	7.6.19	20.6.19		14.6.19	4.9.19		
D/P			13.8.19	26.7.19			22.7.19	28.7.19		20.7.19		17.7.19	1.10.19		
Gross Plot Size (Sq.m)			8.44	9.6			10.0	5.0	6.0	9.0		9.18	13.5		
Net Plot Size (Sq.m)			6.73	8.55			8.25	5.0	6.0	6.72		7.2	10.0		
Zonal Check Variety			ADT-49	ADT-49		ADT-49	ADT-49	ADT-49	ADT-49	ADT-49		ADT-49	ADT-49		

Note: Data of BRM (Brahmavar) and SRS (Sirsi) not included in the analysis due to low experimental mean; Data of KRK (Karaikal) included in the analysis due to low CV; Data of MGD (Mugad) included in the analysis due to High CV

**Appendix-11: Days to 50% Flowering (DFF) of hybrids in IHRT-Medium Slender, Kharif 2019**

S. No.	IET No.	Name	Zone – III										Zone – IV		
			MSD	NZV	UP Mean	@ PSA	@ SYN	@ BH Mean	@ RCI	CHN	CTK	Eastern Mean	TTB	ARD	North-Eastern Mean
1	28177	MEPH-155	99	107	103	101	104	102	106	103	102	103	109	100	105
2	28178	US-308	104	109	107	104	108	106	111	108	106	107	109	106	108
3	28179	NPH-X28	100	106	103	106	106	106	108	106	103	104	109	106	108
4	28180	PHI-19101	101	107	104	106	105	106	108	109	104	105	110	106	108
5	28181	HRI-203	103	108	106	101	106	104	106	112	101	106	110	100	105
6	28182	MTUHR-2105	105	108	107	109	111	110	112	111	104	107	111	111	111
7	28183	MTUHR-2107	112	106	109	111	111	111	114	115	108	110	113	111	112
8	28184	TNTRH-99	92	100	96	97	98	98	104	101	101	99	107	97	102
9	28185	CRHR-145	100	101	101	109	112	110	105	115	104	105	113	109	111
10	28186	TNRH-294	95	103	99	98	101	99	104	103	101	101	106	98	102
11	28187	CRHR-150	99	102	100	112	109	111	107	111	105	104	113	110	112
12	JKRH-3333 (NCH-1)		91	101	96	105	105	105	108	110	103	101	110	106	108
13	27P63 (NCH-2)		108	104	106	106	107	107	108	113	107	108	111	106	109
14	WGL-14 (NCV-1)		114	110	112	111	112	111	112	119	104	112	113	109	111
15	BPT-5204 (NCV-2)			105	105	116	116	116	114	119	109	111	115	111	113
16	Improved Samba Mahsuri/ Ketekejoha/Karjat-6/ ADT-49 (ZCV)		114	102	108	113	115	114	112	117	105	109	112	108	110
Exp. Mean			102	105	104	107	108	107	109	111	104	106	111	106	108

**Appendix-11 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	Zone-V										Central Mean
			JBP	WRS	MP Mean	RPR	@ ADV	VNR	CH Mean	SND	SKL	ANK	
1	28177	MEPH-155	99	91	95	98	88	98	98	97	91	106	97
2	28178	US-308	110	97	104	97	95	106	101	99	100	109	103
3	28179	NPH-X28	103	94	98	102	91	101	101	97	91	109	100
4	28180	PHI-19101	101	97	99	100	93	102	101	98	95	109	100
5	28181	HRI-203	106	88	97	99	85	98	99	98	87	106	98
6	28182	MTUHR-2105	111	101	106	100	94	104	102	100	93	109	103
7	28183	MTUHR-2107	112	104	108	112	96	106	109	101	101	111	107
8	28184	TNTRH-99	100	84	92	103	83	97	100	98	86	104	96
9	28185	CRHR-145	112	94	103	104	98	108	106	103	99	110	104
10	28186	TNRH-294	101	92	97	108	87	100	104	95	86	109	99
11	28187	CRHR-150	112	97	104	92	99	108	100	102	100	112	103
12	JKRH-3333 (NCH-1)		106	95	101	104	91	103	104	98	92	105	101
13	27P63 (NCH-2)		108	95	102	91	92	101	96	98	93	109	99
14	WGL-14 (NCV-1)		111	103	107	95	96	107	101	103	100	111	104
15	BPT-5204 (NCV-2)		115	106	111	94	101	110	102	103	110	115	108
16	Improved Samba Mahsuri/ Ketekejoha/Karjat-6/ADT-49 (ZCV)		112	99	106	112	98	110	111	102	100	111	106
Exp. Mean			107	96	102	101	93	104	102	100	95	109	102

**Appendix-11 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	Zone-VI									Zone-VII (contd)			
			KJT	SHR	PDG	MH Mean	NWG	NVS	@ DBI	GJ Mean	Western Mean	MTU	BPT	BAY	AP Mean
1	28177	MEPH-155	96	95	90	96	101	90	105	95	94	99	95	123	106
2	28178	US-308	103	101	99	102	104	92	109	98	100	100	96	123	106
3	28179	NPH-X28	100	95	94	98	105	92	106	98	97	94	82	126	101
4	28180	PHI-19101	103	97	98	100	102	90	107	96	98	97	97	125	106
5	28181	HRI-203	94	109	93	98	104	83	101	94	97	92	92	124	103
6	28182	MTUHR-2105	106	100	92	100	109	92	110	101	100	98	104	125	109
7	28183	MTUHR-2107	106	100	99	103	109	99	113	104	103	98	97	126	107
8	28184	TNTRH-99	98	128	90	101	103	83	96	93	100	84	85	121	97
9	28185	CRHR-145	106	101	93	102	108	88	120	98	99	108	94	129	110
10	28186	TNRH-294	101	95	88	96	104	85	99	94	95	86	82	122	97
11	28187	CRHR-150	105	99	95	102	107	91	118	99	99	101	99	126	109
12	JKRH-3333 (NCH-1)		102	100	92	98	103	91	108	97	97	93	96	123	104
13	27P63 (NCH-2)		101	100	98	100	103	95	108	99	99	96	92	124	104
14	WGL-14 (NCV-1)		106	101	101	104	107	99	119	103	103	95	104	129	109
15	BPT-5204 (NCV-2)		100	112	103	107	113	99	123	106	105	115	102	132	116
16	Improved Samba Mahsuri/ Ketekejoha/Karjat-6/ADT-49 (ZCV)		102	112	109	106	105	98	120	101	105	95	87	114	99
Exp. Mean			102	103	96	101	105	92	110	98	99	97	94	125	105

**Appendix-11 (contd): Days to 50% Flowering (DFF) of hybrids in IHRT-Medium Slender, Kharif 2019**

S No.	IET No.	Name	(contd) Zone-VII											Over all Mean	
			IIRR	WGL	TS Mean	MND	@ BRM	MLG	@ MGD	@ SRS	KA Mean	CBT	@ KRK		Southern Mean
1	28177	MEPH-155	113	98	105	99	117	107	110	107	103	110	81	105	101
2	28178	US-308	120	107	114	108	119	115	117	114	112	121	91	111	106
3	28179	NPH-X28	116	99	107	101	117	104	107	111	102	114		104	102
4	28180	PHI-19101	119	103	111	101	119	107	101	112	104	114	81	108	104
5	28181	HRI-203	111	98	104	92	105	97	100	102	95	107	78	102	101
6	28182	MTUHR-2105	116	105	111	103	118	119	105	114	111	120	86	111	106
7	28183	MTUHR-2107	120	105	113	106	118	119	110	114	113	119	91	111	108
8	28184	TNTRH-99	114	93	104	95		99	109	107	97	109	72	100	99
9	28185	CRHR-145	117	106	112	101	101	115	111	114	108	115	86	111	106
10	28186	TNRH-294	108	97	103	98	118	100	103	107	99	107	82	100	99
11	28187	CRHR-150	117	107	112	102	116	115	99	114	109	115	86	110	105
12	JKRH-3333 (NCH-1)		116	104	110	101	118	109	110	111	105	114	87	107	103
13	27P63 (NCH-2)		118	103	110	104	116	109	111	111	107	117	85	108	104
14	WGL-14 (NCV-1)		121	106	114	104	120	114	113	114	109	121	91	112	108
15	BPT-5204 (NCV-2)		121	111	116	107	120	118	111	118	113	120	93	116	111
16	Improved Samba Mahsuri/ Ketekejoha/Karjat-6/ADT-49 (ZCV)			113	113	86	105	96	104	99	91	94	75	98	105
Exp. Mean			116	103	110	100	115	109	107	111	105	114	84	107	104

**Appendix-12: Quality Characteristics of hybrids in IHRT-Medium Slender, Kharif 2019**

S. No	IET No	Name	HULL	MILL	HRR	KL	KB	L/B	Grain Type	Grain Chalk	VER	WU	KLAC	ER	ASV	AC	GC
1	28177	MEPH-155	79.2	69.9	58.0	5.31	1.91	2.78	MS	VOC	5.3	350	9.4	1.77	5.3	24.90	55
2	28178	US-308	79.6	70.0	59.8	5.24	1.95	2.68	MS	A	5.5	245	8.6	1.64	3.5	25.05	53
3	28179	NPH-X28	80.5	70.6	59.5	5.40	1.96	2.75	MS	VOC	5.5	335	9.7	1.79	4.0	24.20	48
4	28180	PHI-19101	79.8	71.0	64.4	5.42	1.94	2.79	MS	VOC	5.6	350	9.0	1.66	6.0	25.66	22
5	28181	HRI-203	79.7	69.3	59.4	5.28	1.89	2.79	MS	A	4.8	330	8.3	1.57	6.2	26.25	22
6	28182	MTUHR-2105	77.7	68.5	62.1	5.23	1.89	2.76	MS	VOC	5.2	220	9.5	1.81	4.0	26.72	24
7	28183	MTUHR-2107	75.2	64.4	58.8	5.29	1.94	2.72	MS	VOC	4.4	255	8.5	1.60	4.7	26.89	43
8	28184	TNTRH-99	79.8	70.7	67.5	5.76	2.08	2.76	MS	VOC	5.2	240	9.6	1.66	4.0	26.28	45
9	28185	CRHR-145	80.9	71.8	66.6	5.47	1.92	2.84	MS	VOC	5.2	325	9.9	1.80	5.5	26.86	42
10	28186	TNRH-294	79.9	68.6	53.6	5.52	1.88	2.93	MS	VOC	5.3	300	9.9	1.79	5.2	25.54	56
11	28187	CRHR-150	79.1	70.4	65.2	5.67	1.99	2.84	MS	VOC	5.3	295	9.6	1.69	5.1	26.54	41
12	JKRH-3333 (NCH-1)		80.0	69.6	65.3	5.25	1.94	2.70	MS	VOC	5	260	9.5	1.80	4.0	26.45	22
13	27P63 (NCH-2)		80.0	69.8	61.4	5.25	1.96	2.67	MS	VOC	4.4	280	8.6	1.63	4.0	24.64	22
14	WGL-14 (NCV-1)		80.0	70.9	67.9	5.27	1.83	2.87	MS	A	4.7	275	8.5	1.61	4.0	26.72	24
15	BPT-5204 (NCV-2)		79.5	70.9	67.0	5.11	1.79	2.85	MS	A	5.3	255	10.1	1.97	3.5	24.69	22
16	ADT-49 (ZCV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

HULL: Hulling (%) Milling (%): HRR rice recovery (%); KL: Kernal length (mm); KB: Kernal breadth (mm); SS: short slender; L/B Length and breadth ratio; Grain Chalk: Grain Chalkiness; VOC: Very occasionally present; A: Absent; MS: Medium slender; ASV: Alkali spreading value; AC: Amylose content (%); GC: Gel consistency; LB Long bold; SB: short bold; LS: Long slender