

Annexure 6. Seedling Resistance Test of AVT-I against pathotypes of yellow rust (*Puccinia striiformis*) at Shimla during 2015-16

S. NO.	Variety/Line	PATHOTYPES																	Postulated genes
		46S119	110S119	38S102	238S119	K (47S102)	78S84	110S84	7S0	110S247	P (46s103)	20A (70S64)	238S119	6S0	T (46s103)	N (46s102)	46S68	111S68	
I - Northern Hill Zone																			
1	HS623	S	S	R	S	S	MX	S	R	S	S	R	S	R	MS	R	R	R	Yr2+
2	HS622	MS	MS	R	R	R	S	MS	R	S	R	R	S	R	R	R	R	R	Yr9+
3	VL1009	R	MS	NG	NG	NG	NG	NG	NG	NG	R	NG	MX	R	NG	NG	NG	NG	-
4	HPW423	MS	MS	R	S	MS	MR	R	R	S	S	R	MX	R	R	R	R	R	Yr2+
5	HPW424	S	S	MS	MS	R	R	S	R	S	R	MX	R	R	R	R	S	R	Yr2+
6	HS628	R	R	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	-
7	UP2954	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
8	VL1008	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
9	VL1010	R	MX	R	R	R	R	MS	R	R	R	NG	MR	NG	R	R	R	R	-
10	HS625	R	MX	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
11	HPW433	R	MS	R	R	R	R	R	R	R	R	R	MX	R	R	R	MS	R	-
12	HS627	S	S	R	S	S	MS	MS	R	S	S	MS	R	R	R	R	MS	R	Yr2+
13	HPW432	MS	MS	R	R	MS	R	MS	R	MS	MR	R	R	R	MS	R	R	R	Yr2+
14	VL3010	MS	S	R	R	MS	R	S	R	S	R	R	S	R	R	R	S	R	Yr2+
15	HS626	R	MS	R	MX	MS	R	R	R	R	S	R	MS	R	R	R	R	R	YrA+
16	VL3012	R	R	R	R	R	R	MS	R	R	R	R	MX	R	R	R	R	R	Yr2+27+
17	UP2955	R	S	R	R	R	R	MS	R	S	R	R	MX	R	R	R	R	R	Yr9+
18	VL3011	R	MS	R	R	R	R	MS	R	MR	R	R	R	R	R	R	R	R	Yr9+
II. NORTH WESTERN PLAIN ZONE																			
19	DBW172	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
20	DBW173	R	S	R	R	R	R	R	R	MX	R	R	S	R	R	R	S	R	Yr9+A+
21	DBW179	R	MS	R	R	R	R	MS	R	MS	R	R	S	R	R	R	R	R	Yr2+
22	NW6046	S	MX	R	MS	MX	R	MS	R	S	R	R	S	R	R	R	R	R	Yr2+
23	PBW725	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
24	PBW737	S	R	R	S	MS	MS	R	R	MS	MS	R	MX	R	R	R	R	R	Yr2+
25	UP2903	NG	NG	NG	R	NG	R	R	R	R	R	NG	NG	NG	NG	R	R	NG	-
26	UP2907	NG	NG	R	NG	R	R	NG	NG	NG	NG	NG	NG	NG	NG	R	R	NG	-
27	WH1184	MS	S	R	MS	R	R	MS	R	S	R	R	MX	R	R	R	MS	R	Yr2+
III. NORTH EASTERN PLAIN ZONE																			
28	HD3184	R	R	R	R	R	R	R	R	R	R	R	MX	R	R	R	R	R	R
29	H11612	MS	S	R	MX	MS	MS	MX	R	MS	MS	R	MS	R	MR	R	R	R	Yr2+
30	WH1181	R	S	R	R	R	R	MS	R	S	R	R	S	R	R	R	R	R	Yr2+
IV. CENTRAL ZONE																			
31	HI8774(D)	MR	MS	R	R	MS	MR	MS	R	S	S	R	S	R	R	R	MX	R	Yr2+
32	PDW344(D)	MS	MS	R	R	MS	R	R	R	MS	MS	NG	NG	MS	MX	R	MX	R	-
V. PENINSULAR ZONE																			
33	AKAW4842	MS	S	S	MR	MS	MS	MS	MS	MS	S	S	S	MS	MS	MS	S	S	-

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		46S119	110S119	38S102	238S119	K (47S102)	78S84	110S84	7S0	110S247	P (46s103)	20A (70S64)	238S119	6S0	T (46s103)	N (46s102)	46S68	111S68	
34	DBW168	MS	S	R	R	R	R	S	R	S	R	R	S	R	R	R	MX	R	Yr9+
35	GW477	S	S	MR	S	S	MS	S	R	S	S	R	MX	R	S	R	S	R	Yr2+
36	HI8777(D)	MS	MS	R	MS	MS	R	MS	MR	MS	MS	R	R	MX	R	R	S	R	Yr2+
37	KD1418(D)	S	S	MS	R	MS	MS	MS	R	S	S	MS	R	MX	R	MS	S	R	Yr2+
38	MACS4028(D)	MS	S	S	S	S	S	S	S	S	S	S	S	S	MS	S	S	R	-
39	MACS6660	MS	S	R	R	R	S	S	R	S	R	R	S	R	R	R	R	R	Yr9+
40	NIAW2495	S	S	R	S	MS	MS	MS	R	S	S	R	S	R	R	R	R	R	Yr2+
41	RKD283(D)	S	NG	R	R	MS	MS	MX	R	S	MR	R	MX	R	R	R	S	R	-
42	RKD292(D)	R	S	R	R	MS	R	S	R	MS	MX	NG	R	MS	R	NG	S	NG	-
43	UAS375	S	S	R	S	S	R	MS	NG	S	S	R	S	R	R	R	S	R	Yr2+
44	UAS459(D)	S	S	R	S	MS	MR	S	MS	S	S	R	S	S	R	R	S	R	-
VI. SPECIAL TRIAL (Dicoccum and Sailability and Alkalinity)																			
45	DBW214	S	S	R	R	R	R	R	R	MX	R	R	S	R	R	R	R	R	YrA+
46	DBW215	R	MS	R	R	R	R	MR	R	MX	R	R	R	R	R	R	R	R	YrA+
47	DBW216	R	MS	R	MS	MX	R	R	R	MS	R	R	R	R	R	R	R	R	Yr2+
48	DBW217	R	MX	R	R	R	R	MS	R	S	R	R	S	R	R	R	R	R	Yr2+
49	DDK1050	S	S	S	S	MS	MS	S	S	S	S	MS	MX	S	MS	R	S	R	-
50	DDK1051	R	S	R	R	MR	R	MS	R	MR	MR	R	S	R	R	R	MR	R	-
51	KA1427	S	S	MS	S	MS	MS	MS	MX	S	S	MR	S	R	R	R	S	R	-
52	MACS5044	MS	MS	R	MR	MS	MR	MS	R	S	MS	R	S	MR	MX	R	MS	S	Yr2+
53	MACS5046	MS	MS	MS	MS	MS	MS	MS	MS	S	S	MS	S	S	MS	MS	MS	R	-
54	NW6094	R	MX	R	MX	R	R	R	R	R	MR	R	MX	R	R	R	R	R	Yr9+
55	WH1310	S	S	R	R	S	R	R	NG	MS	S	NG	S	R	R	NG	R	R	-
VII. SPECIAL TRIAL (TRITICALE)																			
56	TL3006	R	MR	R	R	R	R	R	R	MR	R	R	R	R	R	R	R	R	-
57	TL3007	MR	MR	R	R	R	R	MR	R	MS	R	R	S	R	R	R	R	R	-
58	TL3008	MR	MR	R	R	R	R	R	R	MR	R	R	MS	R	R	R	R	R	-
59	TL3009	MS	R	R	R	R	R	R	R	R	R	R	MS	R	R	R	R	R	-
60	TL3010	MS	MR	R	MR	R	R	MR	R	MS	MR	R	NG	R	R	R	R	R	-
VIII. SPECIAL TRIAL (MABB/NIL (KB) ENTRIES/Biofortification trial)																			
61	HPBW01	R	MS	R	R	R	R	R	R	R	R	R	R	R	R	R	MS	R	Yr9+
62	HPBW02	R	MS	R	R	R	R	R	R	MS	R	R	R	R	R	R	R	R	Yr9+
63	HPPAU05	R	MS	R	R	R	R	MX	R	R	R	R	R	R	R	R	R	R	Yr2+
64	HPPAU08	R	S	R	R	S	R	MS	R	MS	R	R	MS	R	R	R	MS	R	-
65	HPPAU10	MS	MS	R	MX	S	MS	R	R	MS	S	R	S	R	R	R	R	R	Yr2+
66	PBW760	R	R	R	R	R	R	R	R	R	R	R	MS	R	R	R	R	R	Yr9+2+
IX. SPECIAL TRIAL (Very Late Sown)																			
67	DBW218	S	S	R	S	S	MS	MS	MS	S	S	R	S	R	R	R	S	R	Yr2+
68	DBW219	MS	S	R	R	R	R	MS	R	S	S	R	S	R	R	R	R	R	-
69	DBW220	MS	MS	R	MS	MS	MS	R	R	MS	S	R	R	R	R	R	R	R	Yr2+
70	HD3236	S	S	R	R	R	MS	MS	R	S	R	R	S	R	R	R	S	R	Yr9+

