

Annexure 3. Seedling Resistance Test of AVT-II 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)	13 (46S68)	111S68	
I - Northern Hill Zone																			
1	HPW251(C)	S	S	R	S	R	MS	MS	R	S	R	R	S	R	R	R	R	R	Yr9+
2	HS375(C)	S	S	R	R	R	R	MS	R	S	R	R	S	R	R	R	R	R	Yr9+18+
3	HS490(C)	R	MR	R	R	R	R	R	R	MR	R	R	S	R	R	R	R	R	-
4	HS507(C)	R	R	R	R	R	R	R	R	R	R	R	MS	R	R	R	R	R	Yr9+2+
5	HS542(C)	R	S	R	MX	R	R	MS	R	S	R	R	S	R	R	R	R	R	Yr2+
6	VL829(C)	S	S	R	R	R	R	S	R	S	R	R	R	R	R	R	R	R	Yr9+18+
7	VL892(C)	MR	S	R	R	R	R	R	R	MS	R	R	S	R	R	R	R	R	YrA+
II. North Western Plain Zone																			
8	DBW88(C)	S	S	R	R	R	R	MS	R	S	R	R	S	R	R	R	R	R	-
9	DBW90(C)	MS	MS	R	MS	MR	R	MR	R	MS	MS	R	R	R	R	R	R	R	-
10	HD3043(C)	R	R	R	R	R	R	R	R	R	R	R	S	R	R	R	R	R	-
11	HD2967(C)	MS	S	R	S	MS	R	R	R	S	S	R	S	R	MX	R	R	R	Yr2+
12	HD3059(C)	R	S	R	R	R	R	R	R	MS	R	NG	S	R	R	R	R	R	-
13	HD3086(C)	MS	MS	R	S	MR	R	MS	R	MS	S	NG	S	R	R	R	R	R	Yr2+
14	PBW644(C)	MR	S	MS	R	R	R	S	R	S	S	MS	S	R	R	R	S	R	Yr2+
15	WH1021(C)	R	S	R	R	R	R	MR	R	S	R	R	S	R	R	R	R	R	Yr9+
16	WH1080(C)	S	S	R	S	S	MX	MS	S	S	S	R	MS	S	R	R	R	R	Yr2+
17	WH1105(C)	MS	MS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Yr2+
18	WH1124(C)	MS	MR	R	MS	MS	R	MS	R	MS	S	R	R	R	R	R	R	R	Yr2+
19	WH1142(I)(C)	MS	MS	R	R	R	R	R	R	MS	R	R	MS	R	R	R	R	R	Yr9+
III. North Eastern Plain Zone																			
20	HD3171	R	NG	R	R	R	R	R	R	R	R	R	MS	R	R	R	R	R	-
21	K1317	R	MS	R	R	R	R	MR	R	MX	R	R	S	R	R	R	R	R	-
22	C306(C)	S	S	S	MS	MS	R	S	R	S	S	R	S	R	R	R	MS	R	Yr18+
23	DBW39(C)	MR	S	R	R	R	R	R	R	S	R	R	MS	R	R	R	R	R	Yr9+
24	HD2733(C)	S	S	R	R	R	R	R	R	S	R	R	S	R	R	R	R	R	Yr9+18+
25	HD2888(C)	S	S	R	S	S	R	R	R	MX	S	R	NG	R	R	R	R	R	Yr2+
26	K8027(C)	MR	S	MS	MX	MS	R	MR	R	MS	MS	MS	R	R	MX	R	MS	R	Yr2+
27	K0307(C)	S	S	R	S	S	R	S	R	S	MX	MX	S	R	MX	R	R	NG	Yr2+
28	K1006(C)	S	S	MS	S	S	MS	MS	MX	S	S	R	NG	S	R	R	R	R	Yr2+
IV. Central Zone																			
29	HI8759(D)	MR	MS	R	MS	MS	R	S	R	MS	MS	R	S	MS	MX	R	S	R	Yr2+

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		46S119	110S119	38S102	238S119	K (47S102)	78S84	110S84	7S0	110S247	P (46s103)	20A (70S64)	238S119	6S0	T (46s103)	N (46s102)	13 (46S68)	111S68	
30	HD4728(D)(I)(C)	R	R	R	R	R	R	MS	R	MS	MR	R	R	R	R	R	S	R	Yr2+
31	HI8498(D)(C)	R	R	R	MS	MS	R	MS	MX	MS	MS	R	R	S	MS	R	S	R	Yr2+
32	HI8737(D)(C)	MX	MX	R	MS	MR	MS	MX	R	MS	S	R	MX	S	MS	R	S	R	Yr2+
33	MPO1215(D)(C)	NG	NG	R	NG	NG	NG	MS	NG	MR	NG	NG	NG	NG	R	NG	NG	NG	-
V. Peninsular Zone																			
34	MACS3949(D)	MR	R	R	R	R	R	MS	MR	MS	S	NG	S	MS	MX	R	R	R	-
35	HI1605	R	S	R	R	R	R	MS	R	S	R	R	S	MX	R	R	S	R	-
36	AKDW2997-16 (D)(C)	MS	MS	MX	S	MS	R	MS	MS	MS	S	MS	R	S	MX	MX	S	R	-
37	DBW93(C)	MS	S	R	R	R	R	S	R	S	R	R	MX	R	R	R	MX	R	Yr9+
38	HD2932(C)	S	S	R	MS	MS	MS	S	MS	S	S	R	S	R	MX	R	S	MX	-
39	MACS6222(C)	S	S	R	R	R	R	S	R	S	R	R	MX	R	R	R	R	R	Yr9+27+
40	MACS6478(C)	R	S	R	R	R	R	MS	R	S	R	R	S	R	R	R	R	R	Yr2+
41	NI5439(C)	S	S	S	S	S	MS	MS	R	S	S	MX	S	R	MS	MS	S	R	Yr2+18+
42	NIAW1415(C)	S	S	R	R	R	S	MS	R	S	R	R	S	R	R	R	R	R	Yr9+
43	NIAW34(C)	MR	MS	R	R	R	R	MS	R	S	R	R	MR	R	R	R	R	R	-
44	NIDW295(D)(C)	R	R	S	R	MS	R	MS	R	MS	MS	MX	S	R	R	R	S	R	-
45	RAJ4083(C)	MS	MS	R	R	MR	R	MS	R	S	S	R	S	R	R	R	S	R	-
46	UAS428(D)(C)	MS	MS	MR	MS	MS	R	MS	MX	S	S	S	S	MS	MX	R	S	S	-
47	UAS446(D)(C)	MX	MX	R	MX	MX	R	MS	MS	S	S	MX	R	MS	MX	R	MS	R	Yr2+
VI. Southern Hills Zone																			
48	HW2044(C)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
49	HW5216(C)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
50	CoW(W)-1(C)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
VII. Special Trial (MABB-IR-LS-CZ/PZ/WB)																			
51	HD3209	S	S	MX	S	MS	MR	S	MX	S	MS	MS	S	R	MR	R	S	R	-
52	PBW723	R	MS	R	R	R	R	R	R	MS	R	R	S	R	R	R	R	R	Yr9+
53	WB2	R	MR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
54	DBW14(C)	R	MS	MS	MR	R	R	MS	R	MS	R	R	S	R	R	R	S	R	-
55	DBW71(C)	S	S	R	R	R	MS	MS	R	S	R	R	R	R	R	R	R	R	Yr9+
56	DDK1029(C)	MS	MS	S	MS	MS	MS	MS	MS	MS	S	MS	S	MS	R	R	MS	MS	-
57	DPW621-50(C)	R	S	R	R	R	R	MS	R	S	R	R	S	R	R	R	R	R	-
58	GW322(C)	S	S	R	MS	S	MR	MS	MS	S	S	R	MX	R	R	R	MS	R	Yr2+
59	HD2864(C)	S	S	R	MS	MS	MS	MS	MX	S	S	MS	S	R	MS	R	S	R	Yr2+
60	HW1098(C)	MS	MS	R	MR	MX	MS	MS	MX	MS	MS	MS	S	MS	R	R	MS	R	-
61	Kharchia 65(C)	S	S	S	S	S	S	S	S	S	S	S	S	S	MX	S	S	R	-

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62	KRL19(C)	R	MX	R	R	R	MR	S	R	S	R	R	S	R	R	R	R	R	-
63	KRL210(C)	MS	S	R	R	R	MS	R	R	MS	S	R	S	R	R	R	R	R	-
64	MP3336(C)	S	S	R	MX	MR	R	MS	R	MS	S	MX	S	R	R	R	S	R	Yr2+
65	PBW343(C)	S	MX	R	R	R	MS	MS	R	S	R	R	R	R	R	R	R	R	Yr9+
66	TL2942(C)	MS	S	MS	MS	MS	MR	MS	MR	MS	MS	R	MS	R	MR	R	R	R	-
67	TL2969(C)	MS	MS	R	MS	R	R	R	R	MR	R	R	R	R	R	R	R	R	-
68	WR544(C)	S	S	R	MX	MS	MS	MS	NS	S	S	R	S	R	R	R	MS	R	Yr2+