Annexure 6 : Seedling Resistance Test of AVT I against pathotypes of yellow rust (*Puccinia striiformis tritici*) at Shimla during 2014-2015

S. No.	VARIETY	PATHOTYPES												Gene postulation
		78 S 84	P	46 S 119	K	T	I	38A	L	14A	20A	N	A	
		1	2	3	4	5	6	7	8	9	10	11	12	
Northern Hills Zone														
1	HPW393	S	S	S	MS	S	MS	R	MS	R	R	S	MS	*Yr*2+
2	HPW394	R	R	R	R	MS	R	R	R	R	R	R	R	-
3	HPW413	S	S	S	R	S	R	R	R	R	R	R	R	*Yr* 2+
4	HPW421	MS	MS	S	R	S	R	R	R	R	R	R	R	*Yr* 2+
5	HPW422	MS	S	MS	S	S	R	R	R	R	R	R	R	*Yr* 2+
6	HS580	R	R	S	S	S	R	R	R	R	R	R	R	*Yr* 9+A+
7	HS583	S	S	S	R	MS	S	MX	R	R	R	R	R	*Yr* 2+
8	HS590	R	R	R	R	R	R	R	R	R	R	R	R	-
9	HS596	R	R	R	R	R	R	R	R	R	R	R	R	R
10	HS597	R	R	R	R	MS	R	R	R	R	R	R	R	-
11	HS598	R	S	S	R	S	R	R	R	R	R	R	R	*Yr* A+
12	HS599	R	S	S	MS	S	R	R	R	R	R	R	R	*Yr*9+A+
13	HS600	R	R	MS	MS	R	R	R	R	R	R	R	R	*Yr*A+
14	HS601	S	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
15	UP2917	R	R	S	R	MS	R	R	R	R	R	R	R	*Yr*9+A+
16	UP2918	S	R	MS	R	R	R	R	R	R	R	R	R	*Yr*9+
17	VL1005	R	R	MS	R	MS	R	R	R	R	R	R	R	*Yr*9+A+
18	VL1006	S	S	S	S	S	S	S	S	S	S	S	MX	-
19	VL1007	R	R	S	R	MS	R	R	R	R	R	R	R	*Yr*9+A+
20	VL3002	R	R	R	R	R	R	R	R	R	R	R	R	R
21	VL3007	R	R	MS	R	MS	R	R	R	R	R	R	R	*Yr*9+A+
22	VL3008	R	R	S	R	MS	MS	R	R	R	R	R	R	*Yr*9+A+
23	VL3009	R	S	S	MX	MS	R	R	R	R	R	R	R	*Yr*A+
24	VL4001	S	R	MS	R	R	R	-	R	R	R	-	R	*Yr*9+
North Western Plain Zone														
25	DBW147	R	S	S	R	MS	R	R	R	R	R	R	R	*Yr*A+
26	DBW148	MS	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
27	DBW150	R	S	MS	MR	MS	MX	R	R	R	R	R	R	*Yr*2+

S. No.	VARIETY	PATHOTYPES												Gene postulation
		78 S 84	P	46 S 119	K	T	I	38A	L	14A	20A	N	A	
		1	2	3	4	5	6	7	8	9	10	11	12	
28	DDW31	S	S	S	S	S	MX	R	R	S	R	R	R	-
29	DDW32	R	R	R	R	R	R	R	R	R	R	R	R	R
30	HD3159	S	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
31	HD3165	MS	S	S	R	MS	MR	R	R	MX	R	R	R	*Yr*2+
32	HD3174	MS	S	S	R	MS	R	R	R	R	R	R	MS	*Yr*2+
33	HI1604	MS	S	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
34	HI1605	S	MS	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
35	HUW688	R	R	R	R	R	R	R	R	R	R	R	R	R
36	K1312	MS	MS	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
37	K1313	R	S	MS	R	MS	R	R	R	R	R	R	R	*Yr*A+
38	K1314	R	S	S	MS	S	MS	R	R	R	R	R	R	*Yr*A+
39	MACS3949	R	MS	MS	MS	MS	S	R	S	R	R	R	R	*Yr*2+
40	MACS4024	R	R	R	R	R	R	R	R	R	R	R	R	-
41	NW6024													-
42	PBW707	MS	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
43	PBW709	R	R	R	R	R	R	R	R	R	R	R	R	R
44	PBW716	R	S	MS	R	S	R	R	R	R	R	R	R	*Yr*A+
45	PBW718	MS	S	S	R	MS	R	R	R	R	R	-	MR	*Yr*2+
46	PBW719	R	R	S	R	MS	R	R	R	R	R	R	R	*Yr*9+A+
47	UP2883	R	R	R	R	R	R	R	R	R	R	R	R	R
48	WH1179	MS	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
North Eastern Plain Zone														
49	HD3171	R	R	R	R	R	R	R	R	R	R	R	R	R
50	K1317	R	R	MS	R	S	R	R	MS	R	R	R	R	*Yr*9+A+
Central Zone														
51	CG1015	MS	R	MR	R	MS	MR	R	MR	MX	R	S	R	-
52	GW463	S	S	S	S	MS	MS	S	MS	R	R	R	S	-
53	HI8759 (D)	MS	MS	MR	MR	S	S	S	MS	MS	R	R	MX	-
Peninsular Zone														
54	GW1315(D)	S	S	S	S	S	S	S	S	S	R	S	S	-

S. No.	VARIETY	PATHOTYPES												Gene postulation
		78 S 84	P	46 S 119	K	T	I	38A	L	14A	20A	N	A	
		1	2	3	4	5	6	7	8	9	10	11	12	
55	HD3164	R	R	S	R	MS	R	R	R	R	R	R	R	*Yr*A+
56	HI8765 (D)	S	S	S	S	MS	S	R	MS	R	R	R	R	*Yr*2+
57	JWS712	MS	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
58	K1315	MS	MS	S	R	S	R	R	R	R	R	R	R	*Yr*2+
59	MACS3970(D)	MS	R	MS	R	S	MS	R	R	MS	R	R	MX	-
60	MACS3972(D)	R	R	R	R	R	R	R	R	R	R	R	R	R
61	MACS4020(D)	S	S	S	S	S	S	S	S	S	R	MX	MX	-
62	PBW721	S	S	S	MR	S	MS	R	MS	MX	R	R	R	-
63	UAS360	S	S	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
64	UAS361	R	R	S	R	MS	R	R	R	R	R	R	R	*Yr*9+A+
65	UAS453(D)	S	S	MX	MS	S	S	S	R	R	R	R	R	*Yr*2+
66	UAS455(D)	MS	R	R	MR	MR	MR	R	R	MX	R	R	R	-
Special Trial (Dicoccum, Salinity and Alkalinity)														
67	DBW181	S	S	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
68	DBW182	R	R	R	R	R	R	R	R	R	R	R	R	R
69	DBW183	MX	S	S	MX	S	S	R	MS	S	R	R	R	-
70	DBW184	MS	R	MS	R	MS	R	R	R	R	R	R	R	*Yr*2+
71	DBW185	MS	R	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
72	DDK1048	R	MS	MR	R	MS	R	MS	R	R	R	R	R	-
73	DDK1049	MR	MS	R	R	MX	R	MS	MS	R	R	MS		-
74	KRL350	S	S	S	MS	MS	MR	R	R	R	R	R	R	*Yr*2+
75	KRL351	S	S	S	S	S	MS	R	S	R	R	R	R	-
76	MACS5041	MS	MR	MR	MR	MS	R	MS	MS	R	R	MS	MX	-
77	MACS5043	S	MX	MX	R	MS	R	R	R	R	R	MS	MX	*Yr*2+
78	WH1309	S	S	S	R	S	R	R	R	R	R	R	R	*Yr*2+
Special Trial (Triticale)														
79	TL3001	MS	R	S	R	MS	MS	MS	R	R	R	-	R	*Yr*2+
80	TL3002	S	R	S	R	R	R	-	R	R	R	-	R	*Yr*9+
81	TL3003	S	R	MS	R	R	R	-	R	R	R	MX	R	*Yr*9+
82	TL3004	S	R	S	MR	MS	R	R	R	R	R	R	R	*Yr*2+

S. No.	VARIETY	PATHOTYPES												Gene postulation
		78 S 84	P	46 S 119	K	T	I	38A	L	14A	20A	N	A	
		1	2	3	4	5	6	7	8	9	10	11	12	
83	TL3005	S	R	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
Special Trial (MABB/NIL (KB) entries)														
84	DWR-NIL-01	S	R	MS	R	R	R	R	R	R	R	R	R	*Yr*9+
85	DWR-NIL-02	MS	R	S	R	R	R	R	R	R	R	R	R	*Yr*9+
86	HD3209	S	S	S	MS	MS	R	R	MR	R	R	MX	R	*Yr*2+
87	KB2012-03	S	MS	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
Special Trial (Wheat Bifortification)														
88	HPBW01	MS	R	S	R	R	R	R	R	R	R	R	R	*Yr*9+
89	HPBW02	MS	R	MS	R	R	R	R	R	R	R	R	R	*Yr*9+
90	HPBW05	MS	R	MS	R	MS	R	R	R	R	R	R	R	*Yr*2+
91	HPBW07	R	R	R	R	R	R	R	R	R	R	R	R	R
92	HPBW08	S	S	S	MS	S	S	MX	S	R	R	R	S	-
93	HPBW09	R	R	R	R	R	R	R	R	R	R	R	R	R
94	HUW695	R	R	R	R	R	R	R	R	R	R	R	R	R
95	HUW711	MS	R	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
96	HUW712	MS	R	S	R	MS	MS	R	R	R	R	R	R	*Yr*2+
97	MACS6507	MS	MS	S	R	MS	R	R	R	R	R	R	R	*Yr*2+
98	WB1	MS	R	MS	R	MS	R	R	R	R	R	R	R	*Yr*2+
99	WB2	MS	R	MS	R	MS	R	R	R	R	R	R	R	*Yr*2+
100	WB5	S	R	S	R	R	R	R	R	R	R	R	R	*Yr*9+