

Table 1: Seedling resistance test results of NBDSN against stem, leaf and stripe rusts during 2021-22 at ICAR-IIWBR, RS, Shimla

S. No.	Line/Variety	Black rust pathogen					Brown rust pathogen					Yellow rust pathogen					
		11	21A-2	40A	117-6	122	H1	H2	H3	H4	H5	M	57	24	G	Q	6S0
1.	BH1040	R	MR	R	R	R	S	MS	S	R	R	S	R	MS	S	R	R
2.	BH1041	MS	S	R	MR	R	R	R	R	R	R	S	S	MS	S	S	R
3.	BH1042	S	S	MS	MR	R	R	MIX	S	R	R	MS	MR	MS	S	MS	MS
4.	BH1043	S	S	R	MS	R	R	R	R	R	R	S	S	MS	S	MR	S
5.	BH1044	S	S	MR	R	R	MS	MS	S	S	S	S	S	S	S	S	S
6.	BH1045	MS	MR	R	MR	R	S	R	S	S	S	R	R	R	R	R	MS
7.	BH1046	S	S	MR	MS	R	R	R	MS	R	S	R	R	R	R	R	R
8.	BH946(C)	S	S	MR	R	R	R	R	MS	S	MS	S	S	MS	R	S	S
9.	BHS352(C)	S	S	R	R	MS	R	R	R	R	R	R	R	R	R	R	R
10.	BHS380(C)	MS	MS	R	R	S	R	MS	S	MS	MS	MS	S	R	R	S	S
11.	BHS400(C)	S	S	R	MS	S	R	R	R	R	R	S	R	S	S	MS	S
12.	BHS488	S	MR	MR	MR	MR	S	R	R	R	R	S	R	S	S	MS	MR
13.	BHS489	MR	MS	R	S	MR	S	R	S	R	R	R	R	R	R	R	R
14.	BHS490	MR	MS	MR	MR	MS	R	R	R	R	R	S	S	S	S	MS	S
15.	BHS491	MR	R	NG	R	NG	R	R	R	R	R	R	R	R	R	R	R
16.	BHS492	S	R	R	R	MS	R	R	R	R	R	MS	R	S	S	S	S
17.	DWRB137 (C)	S	S	S	MR	R	S	S	S	S	S	R	R	R	R	R	R
18.	DWRB182(C)	S	R	S	R	R	S	S	S	MS	S	R	R	R	R	R	R
19.	DWRB219	MS	R	R	R	R	S	S	MS	R	MS	S	R	R	S	R	R
20.	DWRB221	MR	MR	MR	R	R	S	S	S	R	S	S	S	R	MS	R	R
21.	DWRB223	S	MS	MS	R	R	R	R	MS	S	MS	S	R	S	R	MS	S
22.	DWRB225	S	S	MR	S	S	S	S	S	MS	S	S	S	S	S	S	S
23.	DWRB226	S	S	S	S	MS	R	R	MS	MS	S	R	R	R	R	R	R
24.	DWRB227	MS	S	R	R	NG	R	S	R	S	S	S	R	S	R	S	S
25.	DWRB228	S	MS	R	MR	MR	S	R	S	S	R	R	R	R	R	R	R
26.	DWRB229	S	MS	MR	R	R	S	S	MS	R	S	MS	MS	R	MS	R	R
27.	DWRB230	MR	MS	R	MR	R	R	R	R	R	R	S	MS	R	S	R	S
28.	DWRB231	MS	R	R	R	R	S	S	MS	MS	S	R	R	R	S	R	S
29.	DWRB232	MS	S	R	R	R	R	R	R	R	R	S	S	S	S	R	MS
30.	DWRB233	S	MR	R	MS	R	R	S	MS	MS	S	S	S	S	S	R	R
31.	DWRB234	MS	S	R	R	R	R	R	R	R	R	S	S	R	R	S	S
32.	DWRUB52(C)	S	S	S	R	R	R	MS	S	R	S	S	S	R	S	R	R
33.	HBL113(C)	S	MS	R	R	MR	R	R	R	R	R	MS	R	R	R	S	R
34.	HBL874	S	R	MR	MS	NG	R	R	R	R	R	MR	S	R	MS	S	S
35.	HBL875	S	MS	R	S	MR	R	R	R	R	R	R	R	R	R	R	R
36.	HBL876	S	R	MR	MS	MR	R	R	R	R	R	S	R	MR	S	R	S
37.	HBL877	MS	R	R	MR	NG	S	S	S	S	S	S	R	MS	S	R	MR

38.	HBL878	MS	S	R	R	NG	R	R	R	R	R	R	R	R	R	R	R	R
39.	HUB113(C)	S	S	R	MS	S	MS	MS	S	S	MS	R	R	R	R	R	R	R
40.	HUB281	S	S	R	MR	R	R	R	R	R	R	S	S	R	R	S	MS	
41.	K603(C)	S	S	R	S	S	R	R	R	R	R	R	R	R	R	R	R	R
42.	KARAN16(C)	MR	R	S	R	MR	R	R	R	R	R	S	R	R	R	S	R	
43.	KB2004	S	MR	R	R	R	R	MS	S	MS	R	R	R	R	R	R	R	R
44.	KB2008	S	S	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R
45.	KB2013	S	MS	MR	MR	MR	R	R	R	S	S	R	R	R	R	R	R	R
46.	KB2015	S	MS	R	MR	R	R	R	R	MS	R	R	R	R	R	R	R	R
47.	KB2018	S	S	R	R	S	MS	S	S	S	S	S	S	S	S	S	S	S
48.	KB2019	R	R	R	R	NG	NG	NG	NG	R	NG	NG	NG	R	R	NG	R	
49.	KB2031	S	S	R	MR	S	S	S	S	S	S	S	S	S	S	S	S	S
50.	LAKHAN(C)	S	MS	R	MR	S	R	R	R	R	R	R	R	R	R	R	R	R
51.	NDB1173(C)	S	S	MR	S	MR	MS	S	R	S	S	S	S	S	S	S	S	S
52.	NDB1756	S	S	R	S	R	R	R	R	S	MS	R	R	R	R	R	R	R
53.	NDB1776	MR	S	R	R	R	S	S	S	S	S	R	R	S	R	R	R	R
54.	NDB1782	S	MS	R	R	R	S	MS	S	S	S	S	S	S	S	S	MS	
55.	NDB1783	S	S	R	R	MS	S	S	S	S	S	R	R	R	R	R	R	R
56.	NDB1784	S	S	MR	R	S	S	S	S	S	MS	R	R	R	R	R	R	R
57.	NDB1785	S	S	MR	MR	MS	S	S	S	R	S	R	R	R	R	R	R	R
58.	NDB1789	S	MR	R	MR	S	R	R	R	R	R	S	S	S	S	MS	S	
59.	NDB1793	MR	S	MR	R	R	S	S	S	S	S	S	S	S	MR	S	R	
60.	NDB1800	MR	S	NG	MS	NG	R	MS	MS	S	R	R	R	R	R	R	R	R
61.	PL891(C)	S	R	R	S	S	R	R	R	R	NG	S	R	MS	MS	S	R	
62.	PL917*	S	S	R	MR	MR	S	R	R	S	S	S	S	S	S	S	S	S
63.	PL933	R	R	R	R	MR	R	R	MS	R	R	S	R	S	MS	R	R	
64.	PL934	MR	MR	R	MR	R	MS	MS	S	R	MS	S	R	R	R	R	R	R
65.	PL935	MR	R	R	R	R	R	R	R	R	R	S	MS	R	MS	S	S	
66.	PL936	S	MS	R	MS	R	R	R	R	MS	R	S	R	R	R	R	R	R
67.	PL937	S	S	R	R	R	R	R	S	S	R	R	R	R	R	R	R	R
68.	PL938	S	S	R	R	R	R	R	R	R	R	S	R	R	S	R	R	
69.	PL939	S	S	R	MR	MR	S	R	S	S	S	S	S	S	S	S	S	S
70.	PL940	S	S	MR	MS	R	MS	S	R	R	R	R	R	R	R	R	R	R
71.	RD2794(C)	MS	S	MR	MR	S	S	S	S	S	S	S	S	S	S	S	S	S
72.	RD2849(C)	S	MS	R	MS	R	MS	S	S	MS	S	S	S	S	S	R	S	
73.	RD2899	S	S	S	S	MS	S	S	R	R	MS	R	R	R	R	R	R	R
74.	RD2907(C)	MS	S	R	MS	R	S	S	S	S	S	S	R	S	R	S	S	
75.	RD3034	S	S	S	MS	S	R	S	S	S	S	R	R	R	R	R	R	R
76.	RD3037	S	MR	MR	MS	S	MS	MS	S	NG	MS	S	S	S	S	S	S	S
77.	RD3047	S	S	R	R	MR	R	R	R	S	MIX	S	S	S	S	S	S	MS
78.	RD3048	S	S	MR	R	R	S	R	S	MS	MS	S	S	S	S	S	S	S

79.	RD3049	MS	MS	R	R	S	MS	S	S	R	R	R	R	R	R	R	R
80.	RD3050	S	S	R	R	MR	R	R	R	R	R	MS	S	R	S	R	S
81.	RD3051	S	MS	R	MR	R	R	R	S	R	R	S	S	S	MS	S	S
82.	RD3052	S	MS	R	R	MR	S	S	S	R	R	S	R	MR	S	S	S
83.	RD3053	S	S	MR	R	R	S	R	S	S	S	S	S	S	R	S	S
84.	RD3054	MS	S	MR	R	R	MS	R	MS	MS	R	R	R	R	R	R	R
85.	RD3055	MR	S	R	R	R	R	R	R	R	R	MS	MS	R	R	R	S
86.	RD3056	S	R	R	R	R	R	R	R	R	R	S	S	S	S	R	S
87.	RD3057	S	MS	MR	MS	R	S	MS	MS	R	R	S	S	S	S	MS	S
88.	RD3058	MS	MS	MR	MS	R	R	MS	MS	R	S	R	R	R	S	R	MS
89.	RD3059	S	S	R	MR	R	MS	R	S	S	S	R	R	R	R	R	R
90.	RD3060	S	S	R	R	R	R	R	R	S	R	S	S	S	S	S	S
91.	RD3061	S	S	MR	R	MR	MS	S	S	S	R	R	R	R	R	R	R
92.	RD3062	MS	S	R	R	R	R	R	R	R	R	S	S	S	S	S	S
93.	RD3063	S	MR	R	MR	MR	R	MS	R	R	R	R	R	R	R	R	R
94.	UPB1086	R	NG	NG	NG	NG	R	R	R	R	MS	S	S	S	R	S	MR
95.	UPB1095	R	S	R	R	R	MS	S	S	S	S	R	R	R	R	R	R
96.	UPB1101	MR	MR	R	R	MS	NG	R	R	R	S	NG	MS	MR	R	R	R
97.	UPB1102	R	R	R	R	R	S	MS	S	MS	R	R	R	S	S	R	R
98.	UPB1103	MS	S	R	MS	R	S	S	S	S	S	S	S	S	S	S	S
99.	UPB1104	R	R	R	R	R	R	R	R	S	MS	S	R	MR	R	S	S
100.	UPB1105	S	MS	MS	S	R	R	R	S	MS	R	R	R	R	R	R	R
101.	UPB1106	MS	MS	MR	R	R	R	R	S	S	R	S	S	S	S	S	S
102.	UPB1107	MR	R	R	R	R	R	S	MS	R	R	R	R	R	R	R	R
103.	UPB1108	MR	MR	R	R	R	R	MS	R	S	R	MS	S	R	S	S	S
104.	VLB118(C)	MR	R	R	MS	MS	R	R	R	R	R	S	R	MS	S	MS	MS
105.	VLB175	MS	R	R	MR	MS	R	R	R	R	R	S	MS	MS	MS	MS	S
106.	VLB176	S	S	NG	S	MS	R	R	R	R	R	S	S	S	S	S	S
107.	VLB177	MR	R	R	MR	NG	R	R	R	R	R	R	R	R	R	R	R
108.	VLB178	MS	MR	MR	R	S	R	R	R	R	MS	S	S	S	S	S	S
109.	VLB179	S	MS	S	S	NG	S	S	S	R	S	MS	S	S	MS	R	R