	Plant W	linged bean		100(12001)	Primary essential character	
No	No Characters		No. of samples	Methods		Rank or measurement unit	Remarks
1	Terminal leaflet length 10		10 leaves	Measurement	cm (round	to the 1st decimal place)	Record using terminal leaflet of a leaf in the middle of main stem at flowering stage
2	Pod length		10 pods	Measurement	cm (round	to the 1st decimal place)	Record at an appropriate stage for harvesting as vegetables and at maturity for harvesting seeds
3	Pod width 10 pods		10 pods	Measurement	cm (round	to the 1st decimal place)	Record at an appropriate stage for harvesting as vegetables and at maturity for harvesting seeds
4	Immature po	od color	10 pods	Observation	1:Light g	reen 2:Green 3:Dark green 4:Reddish	
5	Wing color of immature 10 pods pod		10 pods	Observation	1:Light g	reen 2:Green 3:Dark green 4:Reddish	
6	Number of seeds per pod 10 pods		Measurement	(round	to the 1st decimal place)		
7	100 seed we	eight	100 seeds	Measurement	g (round	to the 1st decimal place)	Record using dry seeds (less than 16% water content)
8	Seed coat color 100 seeds		Observation	1:White 5:Black	2:Yellow 3:Brown 4:Reddish purple		

	Plant	Winged bean			00(12001)	Primary optional character	
No	o Characters		No. of samples	No. of samples Methods		Rank or measurement unit	Remarks
1	Growth hab	pit	10 plants	Observation		nate (dwarf) 2:Determinate (semi- 3:Indetermediate	Record at flowering stage
2	Branching habit		5 plants	Measurement	1:Low 2:	Intermediate 3:High	Assessed by the ratio of number of primary branches to number of nodes of main stem. Intermediate:0.2
3	Plant heig	ht	5 plants	Measurement	cm (integ	er)	Measure length from ground to shoot apex of main stem
4	Stem color		10 plants	Observation	n 1:Green	2:Light purple 3:Purple	
5	Number of	nodes on main	5 plants	Measurement	(round	to the 1st decimal place)	Record number of nodes from unifoliate node to shoot apex of main stem
6	Petiole le	ength	10 leaves	Measurement	1:Short	2:Intermediate 3:Long	Record using leaves in the middle of main stem. Short:<=9 cm, long:>=14 cm
7	Terminal 1	eaflet shape	10 leaves	Observation	n 1:Ovate	2:Deltoid 3:Acute	
8	Notches of	leaflet	10 leaves	Observation	n 0:Absent	1:Present	
9	Corolla color		10 flowers	Observation		2:Light blue 3:Dark blue 4:Light le 5:Dark blue purple 6:Light purple urple	Record using flower on the day of flowering
10	Shape of o		10 pods	Observation		suture 2:Rectangular 3:Square at 5:Flat on sides	
11	1 Smoothness of immature 10 poo		10 pods	Observation	n 1:Smooth	2:Rough	
12	Notches of wings 10 pods		10 pods	Observation	n 0:None 1	:Low 2:Intermediate 3:High	
13	3 Seed shape 20		20 seeds	Observation	n 1:Round	2:Oval 3:Drum-shaped	
14	Mottling o	on seed coat	20 seeds	Observation	n 0:Absent	1:Present	

	Plant Winged bean			100	(12001)	Primary optional character	
No	Characters		No. of samples	Methods		Rank or measurement unit	Remarks
15	5 Ring coloration around hilum		20 seeds	Observation	0:Absent	1:Present	
16	Hilum col	or	20 seeds	Observation	1:White	2:Light yellow 3:Brown 4:Dark brown	
17	7 Seed surface		20 seeds	Observation	1:Highly	wrinkled 2:Wrinkled 3:Smooth	
18	8 Appearance of compound leaf with more than 5 leaflets		5 plants	Observation	0:Absent	1:Present	Record for leaves of upper position

	Plant Winged bean			100(12001)		Secondary essential character	
No	Characters No. of sample		No. of samples	Methods		Rank or measurement unit	Remarks
1	Earliness o	of pod-	10 plants	Observation	1:Early	2:Intermediate 3:Late	Based on days to harvesting of young pods from seeding (early:<=3 months)
2	Number of f	lowers per	10 flower clusters	Measurement	(round	to the 1st decimal place)	Assess using moderately grown flower clusters
3	Photoperiod sensitivity		10 plants	Observation	1:High 2	:Intermediate 3:Low	Assess under more than 14 hours day-length (after June)
4	Earliness o	of flowering	10 plants	Observation	1:Early	2:Intermediate 3:Late	Based on days to the first flowering from seeding (early:about 70 days)

	Plant Winged bean			100		Secondary optional character	
No	o Characters		No. of samples	Methods	3	Rank or measurement unit	Remarks
1	Low temperature growth		10 plants	Observation	n 1:Poor		Based on growth vigor lower than 20 centi degrees of average temperature
2	Earliness		5 plants	Observation	n 1:Early	2:Intermediate 3:Late	Observe by digging tuberous root after midsummer

	Plant Winged bean			100(12001) Tertiary essential character			
No	Char	acters	No. of samples	Method	ls	Rank or measurement unit	Remarks
1	Yield of immature pod		5 plants	Measureme:	nt Number decimal	F F (Record for varieties used as vegetables
2	Yield of im	nmature pod	5 plants	Measureme:	nt kg/plan	(round to the 1st decimal place)	Record for varieties used as vegetables

	Plant Winged bean			100(12001)	Tertiary optional character		
No	No Characters		No. of samples	Methods	5	Rank or measurement unit	Remarks
1	1 Seed yield		5 plants	Measuremen	ıt g per pl	ant (round to the 1st decimal place)	
2	2 Weight of tuberous root		5 plants	Measuremen	ıt g/plant	(round to the 1st decimal place)	Measure after plants died
3	Smell of po	ods	10 pods	Sensory	0:None	1:Faint 2:Intermediate 3:Heavy	Assessed by snapping young pods