

Company Name	
Crop Name	Bitter Gourd
Variety	
Types Of Variety (Hybrid/Composite/Synthetic/Improved/Single Cross/Double Cross)	

S No	Characteristics	States	Note	Hybrid/Research Variety	Female	Male
1	2	3	4	5	6	7
1	Cotyledon: intensity of green color	Light	3			
		Medium (GG-137d)	5			
		Dark (GG-137a)	7			
2	Plant: main vine length	short viny (<2.0m)	3			
		medium viny (2 - 2.75m)	5			
		long viny (>2.75m)	7			
3	Stem: shape	Rounded	1			
		Angular	2			
4	Stem: length of internodes of main stem (between 15 th -20th node)	Short (<5cm)	3			
		Medium (5-8cm)	5			
		Long (>8cm)	7			
5	Stem: number of primary branches	Less (<10)	3			
		Medium (10-20)	5			
		Many (>20)	7			
6	Leaf blade: length	Short (<6cm)	3			
		Medium (>6-9cm)	5			
		Long (>9cm)	7			
7	Leaf blade: width	Narrow (<6cm)	3			
		Medium (6-10cm)	5			
		Broad (>10cm)	7			
8	Leaf blade: margin	Entire	1			
		Serrate	3			
		Multifid	5			
9	Leaf blade: shape	Obovate	1			
		Cordate	2			
		Oblong	3			
		Reniform	4			
10	Leaf blade: number of lobes	5 lobes	3			
		7 lobes	5			
11	Leaf blade: depth of lobing	Shallow	3			
		Medium	5			
		Deep	7			
12	Petiole: length	Short (<5cm)	3			
		Medium (5-8cm)	5			
		Long (>8cm)	7			
13	Flower colour	Light yellow (YG-3a & 3b)	3			
		Yellow (YG-7d)	5			
		Deep yellow	7			
14	Ovary: length (at the day of anthesis)	Short (<1.5cm)	3			
		Medium (1.5- 2.5cm)	5			
		Long (>2.5cm)	7			
15	Fruit : length	Very short (<5cm)	1			
		Short (5-10cm)	3			
		Medium (10.1- 15cm)	5			
		Long (15.1-20cm)	7			
		Extra long (>20cm)	9			
16	Fruit: diameter	Thin (<3cm)	3			
		Medium (3- 4.5cm)	5			
		Thick (>4.5cm)	7			
17	Peduncle: length	Short <5.0 cm	3			
		Medium (5.0-10.0 cm)	5			
		Long (>10 cm)	7			

S No	Characteristics	States	Note	Hybrid/Research Variety	Female	Male
1	2	3	4	5	6	7
18	Fruit: colour of skin	White	1			
		Creamy white (142B)	2			
		Light green (141C)	3			
		Green (137A)	4			
		Dark green (147C)	5			
		Glossy green(143C)	6			
19	Fruit: shape of base at peduncle end	Acute	1			
		Obtuse	2			
		Rounded	3			
		Flattened	4			
20	Fruit: shape of apex at blossom end	Acute	1			
		Obtuse	2			
		Rounded	3			
		Flattened	4			
21	Fruit: shape in longitudinal section	Oblong	1			
		Ovate	2			
		Spindle shaped	3			
		Club shape	4			
		Triangular	5			
22	Fruit: tubercles	Absent	1			
		Few	3			
		Medium	5			
		Many	7			
23	Fruit: tubercles prominence	Conspicuous	1			
		Non-conspicuous	2			
24	Fruit: ridge	Discontinuous	1			
		Continuous	2			
25	Fruit: bitterness	Mild	3			
		Strong	5			
26	Fruit: color of skin at ripe stage	Yellow (YG-9C)	1			
		Orange (OG-24a)	2			
		Reddish orange (OG-N25a)	3			
27	Seediness (no. of seeds/fruit)	Very less (<10)	1			
		Less (10-20)	3			
		Medium (21-30)	5			
		Many (>30)	7			
28	Seed: length	Short (<1.4cm)	3			
		Long (>1.4cm)	5			
29	Seed: colour	Light brown (GY- 161A,B,C & GO- 164B)	1			
		Brown (GO-164A & GO-167C)	2			
		Dark brown (GO- 165B)	3			
		Yellow	4			
		Black	5			
30	Seed: indentation of margin	Small	3			
		Medium	5			
		Large	7			
31	Seed surface	Smooth	3			
		Rough	5			