

Company Name						
Crop Name		SORGHUM				
Variety Name						
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	Leaf sheath: Anthocyanin pigmentation	Absent	1			
		Present	9			
2	Leaf: Midrib colour (5 th fully developed leaf from bottom)	White (RHS 155-N 155)	1			
		Yellow green (RHS 144-144N)	2			
		Greyed yellow (RHS 162)	3			
		Greyed purple (RHS 183-N187)	4			
		Brown (RHS 199-N199)	6			
3	Plant: Time to 50% flowering (50% of the plants with 50% anthesis)	Very early (<56 days)	1			
		Early (56-65 days)	3			
		Medium (66-75 days)	5			
		Late (76-85 days)	7			
		Very late (>85 days)	9			
4	Flag leaf: Colouration of midrib	White (RHS 155-N 155)	1			
		Yellow Green (RHS 144-144N)	5			
		Brown (RHS 199-N199)	7			
5	Lemma: Arista formation	Absent	1			
		Present	9			
6	Stigma: Yellow colouration	Absent	1			
		Present	9			
7	Stigma: Length (mm)	Short (< 1)	3			
		Medium (1-2)	5			
		Long (> 2)	9			
8	Flower with pedicel: Length of flower	Short	3			
		Medium	5			
		Long	7			
		Very long	9			
9	Anther: Length (mm)	Short (<3)	3			
		Medium (3-4)	5			
		Long (>4)	7			
10	Stem/leaf sheath: Waxy bloom (epicuticular wax at upper one-third height of plant)	Absent	1			
		Present	9			
11	Stigma: Anthocyanin colouration	Absent	1			
		Present	9			
12	Anther: Colour of dry anther	Yellow orange (RHS 14-23)	1			
		Orange (RHS 24-29)	2			
		Orange red (RHS 30-35)	3			
		Greyed orange (RHS 163- 177)	5			
13	Glume : Colour	Yellow white (RHS 157- 158)	2			
		Greyed yellow (RHS 160-162)	3			
		Greyed orange (RHS 163-177)	4			
		Greyed red (RHS 178-182)	5			
		Greyed purple (RHS 183- N187)	6			
14	Plant: Total height (cm) at maturity (including panicle)	Very short (< 76)	1			
		Short (76-150)	3			
		Medium (151-225)	5			
		Tall (226-300)	7			
		Very tall (> 300)	9			

S. No.	Characteristics	States	Note	Hybrid/Research Variety	Female	Male
1	2	3	4	5	6	7
15	Stem : Diameter (at lower one-third height of plant) (cm)	Small (< 2)	3			
		Medium (2-3)	5			
		Large (3.1-4)	7			
		Very large (> 4)	9			
16	Leaf: Length of blade (the third leaf from top including flag leaf) (cm)	Short (< 40)	3			
		Medium (40-60)	5			
		Long (60.1-80)	7			
		Very long (> 80)	9			
17	Leaf: Width of blade (the third leaf from top including flag leaf) (cm)	Narrow (< 4)	3			
		Medium (4-6)	5			
		Broad (6.1-8)	7			
		Very broad (> 8)	9			
18	Panicle : Length without peduncle (cm)	Very short (< 10)	1			
		Short (10-20)	3			
		Medium (20.1-30)	5			
		Long (30.1-40)	7			
		Very long (> 40)	9			
19	Panicle : Length of branches (middle third of panicle) (cm)	Short (< 5)	3			
		Medium (5-10)	5			
		Long (10.1-15)	7			
		Very long (> 15)	9			
20	Panicle : Density at maturity (ear head compactness)	Very loose	1			
		Loose	3			
		Semi loose	5			
		Compact	7			
		Very compact	9			
21	Panicle : Shape	Reversed pyramid	1			
		Panicle broader in upper part	2			
		Symmetric	3			
		Panicle broader in lower part	4			
		Pyramidal	5			
22	Neck of panicle : Visible length above sheath (cm)	Absent or very short (< 5)	1			
		Short (5-10)	3			
		Medium (10.1-15)	5			
		Long (15.1-20)	7			
		Very long (> 20)	9			
23	Glume : Length	Very short (25% of grain covered)	1			
		Short (50% of grain covered)	3			
		Medium (75% of grain covered)	5			
		Long (100% of grain covered)	7			
		Very long (longer than the grain)	9			
24	Plant: Pigmentation (at lower one-third height of plant)	Tan	1			
		Non-tan	9			
25	Grain: Threshability	Freely threshable (< 10% unthreshed grain)	1			
		Partly threshable (11-50% unthreshed grain)	5			
		Difficult to thresh (51-70% unthreshed grain)	7			
		Very difficult to thresh (> 70% unthreshed grain)	9			

S. No.	Characteristics	States	Note	Hybrid/Research Variety	Female	Male
1	2	3	4	5	6	7
26	Grain: Colour after threshing	White (RHS 155)	1			
		Greyed white (RHS 156)	2			
		Yellow white (RHS 158)	3			
		Yellow orange (RHS 14-20)	4			
		Greyed orange (RHS 163- 173)	5			
		Greyed Red (RHS 178-182)	7			
		Black (RHS 202-203)	9			
27	Grain : Weight of 1000 grains (g)	Very low (< 16)	1			
		Low (16-25)	3			
		Medium (25.1-35)	5			
		High (35.1-45)	7			
		Very high (> 45)	9			
28	Grain: Shape (in dorsal view)	Narrow elliptic	1			
		Elliptic	2			
		Circular	4			
29	Grain: Size of mark of germ	Very small	1			
		Small	3			
		Medium	5			
		Large	7			
		Very large	9			
30	Grain: Texture of endosperm (in longitudinal section)	Fully vitreous (100% corneous)	1			
		¾ vitreous (75% corneous)	3			
		Half vitreous (50% corneous)	5			
		¾ farinaceous (25% corneous)	7			
		Fully farinaceous (0% corneous)	9			
31	Grain: Colour of vitreous albumen	Greyed yellow (RHS 160- 162)	1			
		Greyed orange (RHS 164- 166)	2			
		Greyed purple (RHS 187- N187)	3			
32	Grain : Lustre	Non-lustrous	1			
		Lustrous	5			
		Highly lustrous	7			