

|                                                                                        |                   |
|----------------------------------------------------------------------------------------|-------------------|
| Company Name                                                                           |                   |
| Crop Name                                                                              | <b>Black Gram</b> |
| Variety                                                                                |                   |
| Types Of Variety<br>(Hybrid/Composite/Synthetic/Improved/Single<br>Cross/Double Cross) |                   |

| S No | Characteristics                                  | States                     | Note | Hybrid/Research<br>Variety | Female | Male |
|------|--------------------------------------------------|----------------------------|------|----------------------------|--------|------|
| 1    | 2                                                | 3                          | 4    | 5                          | 6      | 7    |
| 1    | Hypocotyl: Anthocyanin colouration               | Absent                     | 1    |                            |        |      |
|      |                                                  | Present                    | 9    |                            |        |      |
| 2    | Time of flowering                                | Early (<40days)            | 3    |                            |        |      |
|      |                                                  | Medium (40-50 Days)        | 5    |                            |        |      |
|      |                                                  | Late (>50 days)            | 7    |                            |        |      |
| 3    | Plant: Growth habit                              | Erect                      | 3    |                            |        |      |
|      |                                                  | Semi-erect                 | 5    |                            |        |      |
|      |                                                  | Spreading                  | 7    |                            |        |      |
| 4    | Plant: Habit                                     | Determinate                | 1    |                            |        |      |
|      |                                                  | Indeterminate              | 3    |                            |        |      |
| 5    | Stem : Colour                                    | Green                      | 1    |                            |        |      |
|      |                                                  | Green with purple splashes | 2    |                            |        |      |
|      |                                                  | Purple with green splashes | 3    |                            |        |      |
|      |                                                  | Purple                     | 4    |                            |        |      |
| 6    | Stem: Pubescence                                 | Absent                     | 1    |                            |        |      |
|      |                                                  | Present                    | 9    |                            |        |      |
| 7    | Leaflet( terminal) : Shape                       | Deltoid                    | 1    |                            |        |      |
|      |                                                  | Ovate                      | 2    |                            |        |      |
|      |                                                  | Lanceolate                 | 3    |                            |        |      |
|      |                                                  | Cuneate                    | 4    |                            |        |      |
| 8    | Foliage: Colour                                  | Green                      | 1    |                            |        |      |
|      |                                                  | Dark green                 | 2    |                            |        |      |
| 9    | Leaf: Vein colour                                | Green                      | 1    |                            |        |      |
|      |                                                  | Purple                     | 2    |                            |        |      |
| 10   | Leaf: Pubescence                                 | Absent                     | 1    |                            |        |      |
|      |                                                  | Present                    | 9    |                            |        |      |
| 11   | Petiole: Color                                   | Green                      | 1    |                            |        |      |
|      |                                                  | Green with Purple splashes | 2    |                            |        |      |
|      |                                                  | Purple                     | 3    |                            |        |      |
| 12   | Pod: Intensity of green colour of premature pods | Yellowish green            | 3    |                            |        |      |
|      |                                                  | Green                      | 5    |                            |        |      |
|      |                                                  | Dark green                 | 7    |                            |        |      |
| 13   | Pod: Pubescence                                  | Absent                     | 1    |                            |        |      |
|      |                                                  | Present                    | 9    |                            |        |      |
| 14   | Peduncle : Length                                | Short (< 5 cm)             | 3    |                            |        |      |
|      |                                                  | Medium (5-10 cm)           | 5    |                            |        |      |
|      |                                                  | Long (>10 cm)              | 7    |                            |        |      |
| 15   | Pod:Length                                       | Small (<5cm)               | 3    |                            |        |      |
|      |                                                  | Medium (5-7 cm)            | 5    |                            |        |      |
|      |                                                  | Long (>7cm)                | 7    |                            |        |      |
| 16   | Pod: Colour of mature pod                        | Buff (off-white)           | 1    |                            |        |      |
|      |                                                  | Brown                      | 2    |                            |        |      |
|      |                                                  | Black                      | 3    |                            |        |      |
| 17   | Plant: Height                                    | Short (<45 cm)             | 3    |                            |        |      |
|      |                                                  | Medium (45-60 cm)          | 5    |                            |        |      |
|      |                                                  | Long (>60 cm)              | 7    |                            |        |      |
| 18   | Seed: Colour                                     | Green                      | 1    |                            |        |      |
|      |                                                  | Greenish brown             | 2    |                            |        |      |
|      |                                                  | Brown                      | 3    |                            |        |      |
|      |                                                  | Black                      | 4    |                            |        |      |
|      |                                                  | Mottled                    | 5    |                            |        |      |

| S No | Characteristics                    | States         | Note | Hybrid/Research Variety | Female | Male |
|------|------------------------------------|----------------|------|-------------------------|--------|------|
| 1    | 2                                  | 3              | 4    | 5                       | 6      | 7    |
| 19   | Seed: Lusture                      | Shiny          | 1    |                         |        |      |
|      |                                    | Dull           | 2    |                         |        |      |
| 20   | Seed: Shape                        | Globose        | 1    |                         |        |      |
|      |                                    | Oval           | 2    |                         |        |      |
|      |                                    | Drum shaped    | 3    |                         |        |      |
| 21   | Seed : Size (weight of 100 seeds ) | Small (<3 g)   | 3    |                         |        |      |
|      |                                    | Medium (3-5 g) | 5    |                         |        |      |
|      |                                    | Large (>5 g)   | 7    |                         |        |      |