Tomato Genetic Resources Characterization Descriptor

S.No.	Descriptor	No.of observation	Method of data record	Stage of the crop
1	Plant Growth habit	Visual Observation	1- Determinate, 2- Semi determinate, 3-Inderminate, 4- Others	To be recorded at full foliage stage
2	Stem Type	Visual Observation	1- Round, 2-Angular, 3-Others	To be recorded at full foliage stage
3	Stem Thickness	Visual Observation	1-Thin, 2-Medium, 3-Thick, 4-Others	To be recorded at full foliage stage
4	Stem Pigmentation	Visual observation	1- Green, 2- Anthocyanin (red), 3- Others	To be recorded at full foliage stage
5	Flower Colour	Visual Observation	1-Light yellow/cream, 2- Deep yellow, 3-Radish yellow, 4- other	To be recorded at full flowering stage
6	Fruit Size	Visual Observation	1-Very small, 2-Small, 3-medium, 4-Large, 5-Very Large, 6- Other	To be recorded at near maturity stage
7	Fruit shape	Visual Observation	1-Flat round, 2-Slightly flattened, 3-Round, 4- Oval, 5- Heart shaped, 6-Lengthened Cylindrical, 7-Pyriform, 8- Plum Shaped, 9-Others	To be recorded at near maturity stage
8	Fruit Colour	Visual Observation	1-Yellow, 2-Green, 3-Orange, 4-Red, 5-Crimson, 6-Pink, 7-Tangarine, 8-yellow and red 9- Tangarine and red 10- yellow, tangerine and red, 11- Others	To be recorded at near maturity stage
9	Blossom-end fruit shape	Visual Observation	1- Indented, 2- Flat, 3-Pointed/nippled, 4-Others	To be recorded at near maturity stage
10	Seediness	Visual Observation	1-Low, 2-Medium, 3-High,4-Others	To be recorded at fruit maturity stage
11	Plant Height (cm)	5 Random plants	Quantitative	To be measured as average of 5 random plants from ground level to the tip of the main stem just before last harvest
12	Number of Primary Branches	5 Random Plants	Quantitative	To be recorded as average of same 5 Plants at the end of Flowing Stage. The branches that arises from the main stem is known as primary branch
13	Days to 50% Flowering	Visual Observation	Quantitative	To be recorded as number of days from sowing date to the date when at least 50% of the plants show flower open. Stigma emergence on the main branch is considered as flowering.
14	Days to first fruit set	Visual Observation	Quantitative	To be recorded as number of days from the date of transplanting to date of first fruit set
15	Days to first fruit maturity	Visual Observation	Quantitative	To be recorded as number of days from the date of transplanting to date of plant attaining physical maturity
16	Number of cluster per	5 Random Plants	Quantitative	To be recorded as average of same 5 Plants

	plants			at flowering stage
17	Number of Flower per Cluster	5 Random Cluster	Quantitative	To be recorded as average of same 5 random Cluster at flowering stage
18	Number of Fruits per Plants	5 Random Plants	Quantitative	To be recorded as average of same 5 Plants at near maturity stage
19	Locule number per fruit	5 Random Plants	Quantitative	To be recorded as average of 5 random fruits at near maturity stage
20	Fruit Weight (g)	5 Random Fruits	Quantitative	To be recorded as average weight of 5 Fruits at near maturity stage
21	Fruit Yield per Plant (g)	5 Random Plants	Quantitative	To be recorded as average of cumulative yield of all pickings in same 5 selected Plants at near Maturity stage
22	Pericarp thickness (mm)	5 Random Fruits	Quantitative	To be recorded as average of same 5 Fruits from an equatorial section of the fruit by using vernier caliipers at near maturity stage
23	Seed Colour	Visual observation	1-Light yellow, 2-Dark yellow, 3-Grey, 4-Brown, 5-Dark Brown, 6- Others	To be recorded on fully dried seeds
24	Biotic Stress Susceptibility	Visual Observation	1-Very Low, 2-Low, 3-Intermediate, 4-High, 5- Very High	Specify the infestation or infection using any 1-9 scale