**Table S1: Thirty four Accessions of *Momordicacharantia* with their Geographical Locations and Dimensions**

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| **S. No.** | **Accession No.** | **Geographical Location** | **Geographical****Dimensions** |
| 1 | TOT4244 | Bangladesh | 24º00´ N, 90º00´ E |
| 2 | TOT4256 |
| 3 | TOT4257 |
| 4 | TOT4333 |
| 5 | TOT4362 |
| 6 | TOT4370 |
| 7 | TOT4507 |
| 8 | TOT4548 |
| 9 | TOT4549 |
| 10 | TOT4574 |
| 11 | TOT4614 |
| 12 | TOT1756 | India | 20º 00´ N, 77º 00´ E |
| 13 | TOT2407 |
| 14 | TOT2533 |
| 15 | TOT5852 |
| 16 | TOT0950 | Thailand | 15º00´ N, 100º 00´ E |
| 17 | TOT1095 |
| 18 | TOT1140 |
| 19 | TOT1299 |
| 20 | TOT1398 |
| 21 | TOT4206 |
| 22 | TOT4208 |
| 23 | TOT4209 |
| 24 | TOT4213 |
| 25 | TOT5128 |
| 26 | TOT5197 |
| 27 | TOT5467 |
| 28 | TOT5468 |
| 29 | TOT5658 |
| 30 | TOT5749 |
| 31 | Sahiwal 1 | Pakistan (Sahiwal) | 30° 40' N, 73° 6' E |
| 32 | Sahiwal 2 |
| 33 | Sahiwal 3 |
| 34 | Faisalabad | Pakistan (Faisalabad) | 31° 25' N, 73° 5' E |



**Fig S1: Ideograms of somatic metaphase chromosomes of *M. charantia,* accessions of Bangladesh. a. TOT4244, b. TOT4256, c. TOT4257, d. TOT4333, e. TOT4362, f. TOT4370, g. TOT4507, h.TOT4548, i.TOT4549, j.TOT4574,**





**Fig S2.Ideograms of somatic metaphase chromosomes of *M. charantia,* accessions of Thailand.a.TOT0950, b.TOT1095, c.TOT1140, d.TOT1299, e.TOT1398, f.TOT4206, g.TOT4208, h.TOT4209. i.TOT4213, j.TOT5128, k.TOT5197, l.TOT5467, m.TOT5468, n.TOT5658, o.TOT5749**

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**Fig S3.Ideograms of somatic metaphase chromosomes of *M. charantia,* accessions of India and Pakistan. a.TOT1756, b.TOT2407, c.TOT2533, d. TOT5852e.Sahiwal , f.Sahiwal2, g.Sahiwal 3, h.Faisalabad**