**Results of Part A1: Varietal Assessment, Trials and Selection of Optimum Varieties**

Based on the varietal trial conducted in 2018-19 and 2019-2020 in collaboration with Assam Agricultural University (AAU), following varieties/ WorldVeg OP lines were found to be promising as per Assam climatic condition.

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| **Vegetables/Pulses** | **OP lines/Varieties** | **Key attributes** | **Photo** |
| Tomato | AVTO 1424 | High yield (40t/ha) |  |
| Pumpkin | AVPU 1392 | High yield (55t/ha), small fruit size preferred by market, high fruit bearing per plant |  |
| AVPU 1391 | Good yield, elongated fruit size |  |
| Cauliflower (off season production under low tunnel) | Megha (Seminis) | Good yield, less incidence of insect and pest attack |  |
| Gauri (Team seeds) | Good yield, less incidence of insect and pest attack |  |
| Pea | Kashi Sambridhi | Highest yield (1511 kg/ha) in Assam condition. Can be considered to introduce in farmers’ field after rice harvest |  |
| Kashi Udai | Second highest yield (784 kg/ha). Can also be considered to introduce in farmers’ field after rice harvest |  |
| Kashi Ageti | Third highest yield (705 kg/ha). Can also be considered to introduce in farmers’ field after rice harvest |  |
| Black gram | UH 1 | Short duration (70 days) and highest yielder (1421 kg/ha) |  |
| Lentil | L 4717 | Short duration (115 days) and highest yielder (1058 kg/ha) |  |