APPENDIX-I

PACKAGE OF PRACTICES FOR RAISING OF SELECTED INTERCROPS AND FOR MAINTENANCE OF EXISTING SOM PLANTATION

Package of practices for Ginger (*Zingiber officinale* Rosc.)

❖ Variety: Bhola
❖ Seed/planting material: Rhizome
❖ Seed rate: 15 q per hectare (2.5 kg per single bed)
❖ Planting time: March
❖ Spacing: 25 cm from row to row and 20 cm from plant to plant
❖ Manures & fertilizers: One day before planting FYM and fertilizers were applied as basal in prepared seed bed @ 20:60:20 kg NPK/ha and 10 t FYM/ha (70 g urea, 610 g SSP, 55g MOP and 20 kg FYM per single bed). Nitrogen (N) was applied in two equal split doses, one as basal before planting and 2nd dose was top dressed at 60 days after plantation.
❖ Weeding and Earthing up: Two times. First was done at 35-40 days after plantation and repeated at 60 days after plantation.
❖ Harvesting time: February (when leaves start yellowing and gradually dry up).

Package of practices for Turmeric (*Curcuma longa* L.)

❖ Variety: Tall Clone
❖ Seed/planting material: Rhizome
❖ Seed rate: 25 q per hectare (4.0 kg per single bed)
❖ Planting time: March
❖ Spacing: 45 cm from row to row and 25 cm from plant to plant
❖ Manures & fertilizers: One day before planting FYM and fertilizers were applied as basal in prepared seed bed @ 30:50:60 kg NPK/ha and 20 t FYM/ha (105 g urea, 505 g SSP, 160 g MOP and 40 kg FYM per single bed). Potash (K) was applied in two equal split doses, one as basal before planting and 2nd dose was
side dressed at 90 days after plantation. Similarly, nitrogen (N) was side dressed in two equal split doses, one at 90 days after planting and 2\textsuperscript{nd} dose at 120 days after plantation.

❖ Weeding and Earthing up: Two times. First was done at 90 days after plantation and repeated at 120 days after plantation.

❖ Harvesting time: February (when leaves start yellowing and gradually dry up).

Package of practices for Garlic \textit{(Allium sativum L.)}

❖ Variety: Local

❖ Planting material: Bulbs

❖ Seed rate: 60 kg per hectare

❖ Planting time: November

❖ Spacing: 15 cm from row to row and 7 cm from plant to plant

❖ Manures & fertilizers: One day before planting FYM and fertilizers were applied as basal in prepared seed bed @ 100:80:60 kg NPK/ha and 20 t FYM/ha (350 g urea, 810 g SSP, 160 g MOP and 40 kg FYM per single bed). Nitrogen (N) was applied in two equal split doses, one as basal before planting and 2\textsuperscript{nd} dose was top dressed at 30 days after planting

❖ Irrigation: At 15 days interval

❖ Weeding: It was done at 30 and 60 days after planting.

❖ Harvesting time: March (when leaves start yellowing and gradually dry up).

Package of practices for Patchouli \textit{(Pogostemon cablin Benth.)}

❖ Planting material: Saplings prepared from bud and leaf cuttings

❖ Saplings requirement: 40000 numbers per hectare

❖ Planting time: March

❖ Spacing: 45 cm from row to row and 45 cm from plant to plant

❖ Manures & fertilizers: Two days before planting, FYM and fertilizers were applied as basal in prepared seed bed @ 100:50:60 kg NPK/ha and 20 t FYM/ha (350 g urea, 510 g SSP, 160 g MOP and 40 kg FYM per single bed). Phosphorus
(P) and Potash (K) were applied in two equal split doses, one as basal before planting and 2nd dose was side dressed at 90 days after plantation. Similarly, nitrogen (N) was top dressed in four equal split doses at 45, 90, 135 and 175 days after plantation.

- Weeding: At 60 days after planting.
- Irrigation: As needed
- Harvesting schedule: Three times per year.
- Harvesting method: Harvesting of mature leaves and branches
- Drying of leaves: Fresh herbs were spread over bamboo mats under shade and kept for 7 days for drying

Package of practices for Stevia (*Stevia rebaudiana* (Bertoni) Hemsl.)

- Seed/planting material: Seedlings
- Seedlings requirement: 75000 numbers per hectare
- Planting time: March
- Spacing: 40 cm from row to row and 25 cm from plant to plant
- Manures & fertilizers: Two days before planting, FYM and fertilizers were applied as basal in prepared seed bed @ 60:30:45 kg NPK/ha and 50 t FYM/ha (215 g urea, 310 g SSP, 125g MOP and 85 kg FYM per single bed). Nitrogen (N) was applied in three equal split doses, one as basal before planting and another two doses were applied at 4 and 7 months after plantation.
- Weeding: At 60 days after planting
- Irrigation: At 15 days interval
- Harvesting schedule: Three times per year.
- Harvesting method: Cutting off the mature leaves and branches and clipping off the tips of the stems
- Drying of leaves: Fresh herbs were spreaded over bamboo mats under shade and kept for 3 days for drying
Package of practices for Brahmi (Bacopa monnieri (L) Wetts.)
❖ Seed/planting material: Seedlings
❖ Seedlings requirement: 37000 numbers per hectare
❖ Planting time: March
❖ Spacing: 20 cm from row to row and 20 cm from plant to plant
❖ Manures & fertilizers: Two days before planting, FYM and fertilizers were applied as basal in prepared seed bed @ 100:60:60 kg NPK/ha and 10 t FYM/ha (350 g urea, 610 g SSP, 160g MOP and 40 kg FYM per single bed). Nitrogen (N) was applied in three equal split doses at 30, 60 and 90 days after plantation.
❖ Weeding: At 30 days interval.
❖ Irrigation: At 15 days interval
❖ Harvesting schedule: Two times per year.
❖ Harvesting method: Cutting off the upper portion including leaves and stems.
❖ Drying of leaves: Fresh herbs were spreaded over bamboo mats under shade at Room temperature and kept for 3 days for drying

Package of practices for Colocasia (Colocasia esculenta Schott.)
❖ Variety: Ahinia Kachu
❖ Seed/planting material: Corms/Cormel
❖ Seed rate: 20 q per hectare
❖ Planting time: March
❖ Spacing: 60 cm from row to row and 45 cm from plant to plant
❖ Manures & fertilizers: One day before planting FYM and fertilizers were applied as basal in prepared seed bed @ 80:60:120 kg NPK/ha and 10 t FYM/ha (280 g urea, 610 g SSP, 320g MOP and 40 kg FYM per single bed). Nitrogen (N) was applied in two equal split doses, one as basal before planting and 2nd dose was top dressed at 30 days after sowing
❖ Weeding and Earthing up: It was done at 35-40 days after plantation when plants attain a height of about 30 cm.
❖ Harvesting time: September (when leaves start yellowing and gradually dry up).
Package of practices for Potato (*Solanum tuberosum* L.)

- Seed/planting material: True potato seed (TPS)
- Seed requirement: 100 g per hectare
- Seed sowing time in nursery: September
- Transplanting time: November
- Spacing: 50 cm from row to row and 10 cm from plant to plant
- Manures & fertilizers in experimental plot: One day before transplanting, FYM and fertilizers were applied as basal in prepared seed bed @ 60:50:50 kg NPK/ha (215 g urea, 510 g SSP and 135g MOP per single bed) and 20 t FYM/ha (40 kg per single bed). Nitrogen was applied in two equal split doses at the field preparation and at 30 days after planting.
- Weeding and Earthing up: At 35 days after planting.
- Irrigation: Four times. One just after transplanting and other three at 25, 60 and 80 days after planting
- Harvesting time: March (when leaves start yellowing and gradually dry up).

Package of practices for Onion (*Allium cepa* L.)

- Seed/planting material: Certified seed
- Seed requirement: 12 kg per hectare
- Seed sowing time in nursery: September
- Transplanting time: November
- Spacing: 20 cm from row to row and 10 cm from plant to plant
- Manures & fertilizers: One day before planting FYM and fertilizers were applied as basal in prepared seed bed @ 60:50:50 kg NPK/ha and 20 t FYM/ha. (215 g urea, 510 g SSP and 135g MOP and 40 kg FYM per single bed). Nitrogen (N) was applied in three split doses, first 2/3rd was applied as basal before planting. Remaining 1/3rd was top dressed in two equal split doses at 30 and 60 days after sowing.
- Weeding: At 40 days after plantation.
- Irrigation: At 7 days interval from transplanting
Harvesting time: March (when 70% of plants start drying)

Package of practices for maintenance of existing Som (Perseae bombycina Kost.) plantation

- Time for pruning of existing plantation: November
- Pruning height: 3m (10 ft) above the ground level
- Clipping of top and side branches (light pruning): June and November (after rearing of muga silkworm)
- Manure & Fertilizer: FYM @ 10 kg (1.0 cft)/plant (160 kg per single plot) and fertilizers @ 44:62:17 g NPK/plant (1.5 kg urea, 6.5 kg SSP and 450 g MOP per single plot) were applied by ring method during June and November (after each rearing)
- Application of Bleaching powder & Lime: Lime and bleaching powder mixture (9:1) was applied @ 200 g per sq.m one week before silkworm rearing.
- Silkworm rearing: Rearing was conducted in two commercial seasons i.e. during April-May (Jethua) and October-November (Katia).