

| DAT | Location | Operation1        | Operation2               | Operation3               | Description1                                   | Description2                                     | Description3       | Input                             | Unit        | Units/acre |
|-----|----------|-------------------|--------------------------|--------------------------|--|--|--------------------|-----------------------------------|-------------|------------|
| -20 | Field    | Field preparation | Organic manuring         | Manure sampling          | ONLY one sample per batch/delivery             | SERVICE by SGS India Pvt. Ltd.                   |                    | Service                           | Charge      | 1.00       |
| -20 | Field    | Field preparation | Irrigation               | Flood                    |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| -10 | Field    | Field preparation | Deep-chiseling           |                          | ONLY for newly acclimated land                 | EITHER deep-chiseling or ploughing               | NEED-BASED         | Tractor with chisel               | Tractor-op. | 1.00       |
| -10 | Field    | Field preparation | Ploughing                |                          | ONLY for newly acclimated land                 | EITHER deep-chiseling or ploughing               | NEED-BASED         | Tractor with plough               | Tractor-op. | 1.00       |
| -9  | Field    | Field preparation | Organic manuring         | Manure application       |  |  | ONLY ONCE PER YEAR | Vermicompost                      | mt          | 1.20       |
| -9  | Field    | Field preparation | Organic manuring         |                          | Apply evenly to field surface                  |  | ONLY ONCE PER YEAR | Labor                             | Man-d       | 1.00       |
| -9  | Field    | Field preparation | Fertilization            | Basal fertilizer         | Rate revised depending on soil-testing results | 23-00-00 N-P-K                                   |                    | Urea                              | kg          | 50.00      |
| -9  | Field    | Field preparation | Fertilization            | Basal fertilizer         | Rate revised depending on soil-testing results | 18-46-00 N-P-K                                   |                    | DAP                               | kg          | 100.00     |
| -9  | Field    | Field preparation | Fertilization            | Basal fertilizer         | Rate revised depending on soil-testing results | 00-00-90 N-P-K                                   |                    | MOP                               | kg          | 150.00     |
| -9  | Field    | Field preparation | Fertilization            | Basal fertilizer         |  |  |                    | Zn-Sulphate                       | kg          | 20.00      |
| -9  | Field    | Field preparation | Fertilization            |                          | Mix and apply evenly to surface                |  |                    | Labor                             | Man-d       | 1.00       |
| -8  | Field    | Field preparation | Harrowing                |                          |  |  |                    | Tractor with harrow               | Tractor-op. | 1.00       |
| -8  | Field    | Field preparation | Planking                 |                          |  |  |                    | Tractor with planker              | Tractor-op. | 1.00       |
| -8  | Field    | Bed preparation   | Bed making               | 90-cm bed & 45-cm furrow |  |  |                    | Tractor with bedmaker             | Tractor-op. | 1.00       |
| -8  | Field    | Bed preparation   | Irrigation               | Furrow                   |  |  |                    | Labor                             | Man-d       | 0.50       |
| 0   | Field    | Sowing            |                          |                          |  |  |                    | Seed                              | kg          | 0.50       |
| 0   | Field    | Sowing            | 90-cm bed & 45-cm furrow | 1 row/bed                | 60-cm interplant distance                      | 4,500 plants/A (=90%)                            |                    | Labor                             | Man-d       | 1.00       |
| 0   | Field    | Cultivation       | Irrigation               | Furrow                   |  |  |                    | Labor                             | Man-d       | 0.50       |
| 7   | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 14  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 14  | Field    | Cultivation       | Weeding                  |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 6.00       |
| 14  | Field    | Cultivation       | Plant protection         | Insecticide              | Concentration: 0.08%                           | against Red Pumpkin Beetle, after germination    | PREVENTIVE         | Karate (Lambda Cyhalothrin 5% EC) | ltr         | 0.16       |
| 14  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Downy Mildew                             | PREVENTIVE         | Abic M-45 (Mancozeb)              | kg          | 0.40       |
| 14  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Powdery Mildew; if temperatures <30deg C | PREVENTIVE         | Thiovit 80% WP (Sulphur)          | kg          | 0.40       |
| 14  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Water                             | ltr         | 200.00     |
| 14  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Labor                             | Man-d       | 0.50       |
| 21  | Field    | Cultivation       | Mulching                 | Rice or wheat straw      |  |  |                    | Straw                             | mt          |            |
| 21  | Field    | Cultivation       | Mulching                 |                          | Cover beds                                     |  |                    | Labor                             | Man-d       |            |
| 21  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 28  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 28  | Field    | Cultivation       | Plant protection         | Insecticide              | Concentration: 0.20%                           |  | NEED-BASED         | Rogor 30% EC (Dimethoate)         | ltr         | 0.40       |
| 28  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Water                             | ltr         | 200.00     |
| 28  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 37  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Downy Mildew                             | PREVENTIVE         | Abic M-45 (Mancozeb)              | kg          | 0.40       |
| 37  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Powdery Mildew; if temperatures <30deg C | PREVENTIVE         | Thiovit 80% WP (Sulphur)          | kg          | 0.40       |
| 37  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Water                             | ltr         | 200.00     |
| 37  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Labor                             | Man-d       | 0.50       |
| 44  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 44  | Field    | Cultivation       | Weeding                  |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 6.00       |
| 44  | Field    | Cultivation       | Plant protection         | Insecticide              | Concentration: 0.20%                           |  | NEED-BASED         | Rogor 30% EC (Dimethoate)         | ltr         | 0.40       |
| 44  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Water                             | ltr         | 200.00     |
| 44  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 51  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Downy Mildew                             | PREVENTIVE         | Abic M-45 (Mancozeb)              | kg          | 0.40       |
| 51  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Powdery Mildew; if temperatures <30deg C | PREVENTIVE         | Thiovit 80% WP (Sulphur)          | kg          | 0.40       |
| 51  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Water                             | ltr         | 200.00     |
| 51  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Labor                             | Man-d       | 0.50       |
| 60  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 60  | Field    | Cultivation       | Weeding                  |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 6.00       |
| 60  | Field    | Cultivation       | Fertilization            | Side dressing            | 12-00-00 N-P-K                                 |  |                    | Urea                              | kg          | 25.00      |
| 60  | Field    | Cultivation       | Fertilization            |                          | Mix and apply evenly to surface                |  |                    | Labor                             | Man-d       | 1.00       |
| 60  | Field    | Cultivation       | Plant protection         | Insecticide              | Concentration: 0.20%                           |  | NEED-BASED         | Rogor 30% EC (Dimethoate)         | ltr         | 0.40       |
| 60  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Water                             | ltr         | 200.00     |
| 60  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 70  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 70  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           |  | PREVENTIVE         | Abic M-45 (Mancozeb)              | kg          | 0.40       |
| 70  | Field    | Cultivation       | Plant protection         | Fungicide                | Concentration: 0.20%                           | against Powdery Mildew; if temperatures <30deg C | NEED-BASED         | Thiovit 80% WP (Sulphur)          | kg          | 0.40       |
| 70  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Water                             | ltr         | 200.00     |
| 70  | Field    | Cultivation       | Plant protection         |                          |  |  | PREVENTIVE         | Labor                             | Man-d       | 0.50       |
| 75  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 75  | Field    | Cultivation       | Weeding                  |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 6.00       |
| 75  | Field    | Cultivation       | Fertilization            | Side dressing            | 12-00-00 N-P-K                                 |  |                    | Urea                              | kg          | 25.00      |
| 75  | Field    | Cultivation       | Fertilization            |                          | Mix and apply evenly to surface                |  |                    | Labor                             | Man-d       | 1.00       |
| 75  | Field    | Cultivation       | Plant protection         | Insecticide              | Concentration: 0.20%                           |  | NEED-BASED         | Rogor 30% EC (Dimethoate)         | ltr         | 0.40       |
| 75  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Water                             | ltr         | 200.00     |
| 75  | Field    | Cultivation       | Plant protection         |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 90  | Field    | Harvest           |                          |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 3.00       |
| 90  | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 100 | Field    | Harvest           |                          |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 3.00       |
| 105 | Field    | Cultivation       | Irrigation               | Furrow                   |  |  | NEED-BASED         | Labor                             | Man-d       | 0.50       |
| 110 | Field    | Harvest           |                          |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 3.00       |
| 120 | Field    | Harvest           |                          |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 3.00       |
| 130 | Field    | Harvest           |                          |                          |  |  | NEED-BASED         | Labor                             | Man-d       | 3.00       |