| S. No. | Particulars   | <b>Details/Information</b>   |  |  |       |      |      |      |      |      |   |                                      |  |
|--------|---|--|--|--|-------|------|------|------|------|------|---|--------------------------------------|--|
| 1      | Technology  | Integrated Nutrient Management for Export Oriented Vegetable Crops in the Nilgiris   |  |  |       |      |      |      |      |      |   |                                      |  |
| 2      | Authors   | D.V. Singh, V. Selvi and M. Madhu  |  |  |       |      |      |      |      |      |   |                                      |  |
| 3      | Developed for arable or non-arable lands                              | Arable lands   |  |  |       |      |      |      |      |      |   |                                      |  |
| 4      | Period of experimentation   | 2005 to 2009   |  |  |       |      |      |      |      |      |   |                                      |  |
| 5      | Description/specifications in brief (e.g. package of practices, etc.) | lettuce  | and brement for the street street in the street str | Brussels sprout Lettuce Broccoli Lime, Bio |       |      |      |      |      |      |   |                                      | egrated nutrient   |
|        |   | l Province   | per<br>year)   | N  | P     | K    | N    | P    | K    | N    | Р   | K                                    | CRR  |
|        |   | I  | 15.0   | -  | -     | -    | -    | -    | -    | -    | -   | -                                    | Lime @ 5 t/ha per year, Phosphobacteria and Azospirillium each @ 37.5 kg/ha per crop and recycling of crop |
|        |   | II   | 9.0  | 37.5                                       | 37.5  | 25.0 | 12.5 | 25.0 | 7.5  | 20.0 | 25.0  | 25.0                                 |  |
|        |   | III  | 6.0  | 75.0                                       | 75.0  | 50.0 | 25.0 | 50.0 | 15.0 | 40.0 | 50.0  | 50.0                                 |  |
|        |   | IV   | 3.0  | 112.5                                      | 112.5 | 75.0 | 37.5 | 75.0 | 22.5 | 60.0 | 75.0  | 75.0                                 | residue of the preceding crop  |
| 6      | Importance/sale value   | In the Nilgiris, soil acidity, a major limitation of soil quality and soil erosion, a major land degradation process affect the yield of most of the vegetable crops grown in this area. Cultivation of export oriented vegetable crops is both remunerative and high risk involving enterprise. This warrants adoption of proper soil management and conservation practices.                                |  |  |       |      |      |      |      |      |   |                                      |  |
| 7      | Outcome and domain area of application of the technology              | For cultivation of export oriented vegetable crops like Brussels sprout, lettuce and broccoli, Integrated Nutrient Management (INM) involving the use of inorganic fertilizers, biofertilizers, FYM and lime along with crop residue recycling proved to be the best option for sustainable soil health maintenance, high crop productivity and high soil and water conservation efficiency in the Nilgiris. |  |  |       |      |      |      |      |      |   |                                      |  |
| 8      | Title of the approved project/assignment with Scientific team         | Soil health, productivity and conservation under different nutrient management systems for export oriented vegetable crops in the Nilgiris (Ad-hoc scheme of ICAR)  D.V. Singh, V. Selvi and M. Madhu  |  |  |       |      |      |      |      |      |   |                                      |  |
| 9      | Scanned copy of one good photograph which can reflect the technology  |  |  |  |       |      |      |      |      |      | R2 T5<br>: FYM <sub>15</sub> (=1)<br>: CRR+Lime<br>: BF+CRR | PLOT No. 15<br>N <sub>78</sub> )+BF+ |  |