TEMPLATE FORM FOR THE DESCRIPTION OF DEMONSTRATION SITES

This form has to be filled by the owner of the farm and/or of the processing unit e/o others, in order to give useful information to SMEs in needs of facilities (fields, processing industries, etc.), to test their technological solution(s).

Please fill “data” field with open text, or as specifically indicated.

# A - FARM

CHAPTER A0: General information

|  |  |  |
| --- | --- | --- |
| ID. | Requisite | Data |
| A01 | Contact person (name, email) |  |
| A02 | Farm name |  |
| A03 | Address and Country |  |
| A04 | Experience in farm demonstration activities (years) |  |
| A05 | Land drainage  if yes, water collectors | * yes □ no * yes □ no |
| A06 | Practicability of fields in case of rain | * yes □ no |

CHAPTER A1: Structure of the farm

|  |  |  |
| --- | --- | --- |
| ID. | Requisite | Data |
| A11 | Kind of soil (knowledge on soil analysis and composition) | * yes □ no |
| A12 | Soil slope | Approx % : |
| A13 | Hedges and / or ecological infrastructures | * yes □ no |
| A14 | Stable grassland | * yes □ no |

CHAPTER A2: Focus on farm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID. | Requisite |  | Data | | | |  |
| A21 | Land  without cultivation |  | Area (ha) | | | |  |
|  | Total |  |  | | | |  |
| A22 | Arable crops |  | Organic farming  Area (ha) | | Integrated crop management farm (ICM)  Area (ha) | |  |
|  | Crop 1 |  |  | |  | |  |
|  | Crop 2 |  |  | |  | |  |
|  | Crop 3 |  |  | |  | |  |
|  | … |  |  | |  | |  |
|  | Total (ha) |  |  | |  | |  |
| A23 | Vegetable crops |  | Open field | | Green house | |  |
|  |  |  | Organic  Area (ha) | ICM farm  Area (ha) | Organic  Area (ha) | ICM farm  Area (ha) |  |
|  | Crop 1 |  |  |  |  |  |  |
|  | Crop 2 |  |  |  |  |  |  |
|  | Crop 3 |  |  |  |  |  |  |
|  | … |  |  |  |  |  |  |
|  | Total (ha) |  |  |  |  |  |  |
| A24 | Vine |  | Organic farming  Area (ha) | | ICM Farm  Area (ha) | |  |
|  | Total |  |  | |  | |  |
| A25 | Orchard |  | Organic farming  Area (ha) | | ICM Farm  Area (ha) | |  |
|  | Crop 1 |  |  | |  | |  |
|  | Crop 2 |  |  | |  | |  |
|  | Crop 3 |  |  | |  | |  |
|  | … |  |  | |  | |  |
|  | Total (ha) |  |  | |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A26 | Livestock |  | Organic | Others (please specify) |  |
|  | Livestock 1 |  |  |  |  |
|  | Livestock 2 |  |  |  |  |
|  | Livestock 3 |  |  |  |  |
|  | **…** |  |  |  |  |
|  | Total |  |  |  |  |
| A27 | Other (specify) |  | Area (ha) | |  |
|  | Total |  |  | |  |

CHAPTER A3: Description of farm equipment

|  |  |  |
| --- | --- | --- |
| **ID.** | **Requisite** | **Data** |
| A31 | Machines for soil tillage | * yes □ no |
| A32 | Machines for weed control | * yes □ no |
| A33 | Irrigation system(s)  Please specify: | * yes □ no |
|  |  |
|  |  |
|  |  |
| A34 | Equipment with remote control  Please specify: | * yes □ no |
|  |  |
|  |  |
|  |  |
| A35 | Livestock and pastures   * Radio frequency ID * Automated milking, feeding, and monitoring systems | * yes □ no * yes □ no |
| A36 | Precision farming facilities |  |
| * Precision Application technologies (If yes specify) | * yes □ no |
|  |  |
|  |  |
| * Data acquisition technologies (If yes please specify): | * yes □ no |
|  |  |
|  |  |
| * Data analysis & evaluation technologies (If yes specify): | * yes □ no |
|  |  |
|  |  |
| * Others (specify) | * yes □ no |
|  |  |
|  |  |
| A37 | If the answer in A36 is “no”, do you have availability of data and information from private / public database?  Please specify: | * yes □ no |
|  |  |  |
|  |  |  |
|  |  |  |

CHAPTER A4: Description of facilities

|  |  |  |
| --- | --- | --- |
| ID. | Requisite | Data |
| A41 | Irrigation connections on field head | * yes □ no |
| A42 | Electricity in field availability | * yes □ no |
| A43 | Electrical generator availability | * yes □ no |
| A44 | Availability of tractors /  machines equipped with GPS system | * yes □ no |
| A45 | Availability of machines for harvest.  If yes specify for which crop(s): | * yes □ no |
|  |  |
|  |  |
|  |  |
| A46 | Availability of refrigerated cells for storage and conservation | * yes □ no |
| A47 | Availability of mechanical workshop: fixing ups, soldering, etc. | * yes □ no |
| A48 | Availability of a storehouse with latch for equipment… | * yes □ no |
| A49 | Possibility of connection for data transmission (3G, 4G, others) a | * yes □ no |
| A50 | Other devices, data, equipment availability  Please specify: | * yes □ no |
|  |  |
|  |  |
|  |  |

CHAPTER A5: Other conditions

|  |  |  |
| --- | --- | --- |
| ID. | Requisite | Data |
| A51 | Demo site profile:   * Implementation of a solution in living conditions simply with practical feedbacks * Experimentation and test of the solution with technical/scientific support and assessment feed-backs * Existence of a formalized service offer | * yes □ no * yes □ no * yes □ no |
| A52 | Conditioned access to particular equipment  (please specify)  In case of special equipments requiring a certified experience, the final user/SME should demonstrate a specific training / license to use it in compliance with National/local laws | * yes □ no |
|  |  |
|  |  |
|  |  |
| A53 | Availability of experienced staff  to carry out and support field test trials | * yes □ no |
| How many experimentation/demonstration activities are developed on average /year? |  |
| How many qualified experts (technicians/researchers) are available? |  |
| In case of field management by third part: | | |
| A54 | Possibility to lose part of the production based on reimbursement | * yes □ no |
| A55 | Possibility to apply experimental protocols supplied by third parts | * yes □ no |
| A56 | Possibility to host visitors during tests | * yes □ no |
| A57 | Possibility to sign confidentiality contracts | * yes □ no |
| A58 | Presentation of the owner:  introduction of the site and presentation of the owner motivation. Specify if your facility is already devoted to digital innovation testing | |
|  |  |

# B - POST-HARVEST PROCESSING UNITS & OTHERS

CHAPTER B0: General information

|  |  |  |
| --- | --- | --- |
| ID. | Requisite | Data |
| B01 | Contact person (name, email) | John Hunter  john.hunter@teagasc.ie |
| B02 | Unit name | Moorepark Technology Limited |
| B03 | Address and Country | Moorepark, Fermoy, Co. Cork, Ireland. P61 NP77 |
| B04 | Experience in demonstration activities (years) | 26 |
| B05 | Kind of units | Dairy and food ingredient pilot plant. |

CHAPTER B1: Structure of the unit

|  |  |  |
| --- | --- | --- |
| ID. | Requisite | Data |
| B11 | Physical description of the unit  (location, geographical data, etc…) | |
| Pilot facility of 5000m2, based on Teagasc Moorepark research campus in Fermoy.  It is utilized by Research Performing Organisations and industry customers for application for proof of concept and scale up trials. | |

CHAPTER B2: Data about products/services

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID. | Requisite | | | | | Data | | | |
|  |  | | | | |  | | | |
| Description of products, semi-products, service or any output of your process | | | | | | | | | |
| B 21 | | B21 Product |  | Production industry | | | Experimental Industry | |  |
|  | |  |  | Organic origin (unit/yr | ICM  Origin (unit)/yr | | origin (unit)/yr | ICM  Origin (unit)/yr |  |
|  | | Artisan Cheeses |  |  |  | | 5 tonne |  |  |
| whey | | Cheddar + Mozzarella |  |  |  | | 5 tonne |  |  |
|  | | Skim Milk Powder |  |  |  | | 40 tonne | 100,000Litres |  |
|  | | Milk Based formula powders |  |  |  | | 40 tonne | 80,000Litres |  |
|  | | Protein Hydrolysis |  | 35tonne | 40tonne | | 5 tonne | 5 tonne |  |
|  | | Protein Based drinks |  | 20tonne | 20tonne | | 1 tonne | 1 tonne |  |
|  | | Functional Cheese Powder |  | 50tonne | 50tonne | | 5 tonne | 5 tonne |  |
|  | | Total |  |  |  | |  |  |  |
|  | | Particular standards / certification system (specify) |  | Department Of Agriculture Food And Marine approved as food production facility  ISO 22000 | | | | | |
|  | | Other useful details (specify and describe) |  | Module based process and product development | | | | | |

CHAPTER B3: Description of processing and “technological” equipments

|  |  |  |  |
| --- | --- | --- | --- |
| ID. | Requisite | | Data |
| B31 | Physical description of the unit (location, geographical data, etc…) (specify) | | |
| Thermal treatment plant )Bactofugation | | |
|  | Separation technologies – membrane +centrifugal | | |
|  | Drying technologies | | |
| B32 | | Equipment to apply new technologies in the process unit (specify): | |
|  | Array of production and cleaning processes and systems | | |
| CIP processes across wide range of equipment | | |
| Dairy processing plant, Clarification, Separation, Pasteurisation, Standardisation, Fermentation, butter making, drying , ice- creams spreads and novel products and ingredients | | |

CHAPTER B4: Description of facilities

|  |  |
| --- | --- |
| ID. | Requisite |
| B41 | Presentation of the owner:  introduction of the site and presentation of the owner motivation.  Specify if your facility is already devoted to digital innovation testing |
|  | Moorepark Technology Ltd. facility is a food grade regulated versatile pilot factory, dedicated to testing innovations in the food sector. This contains modular based operations in liquid processing (thermal and separation), concentration and drying, blending, fermentation, cheese making. It has the necessary infrastructure to support this activity- CIP Plants, Storage and industrial scale related services (steam, waters, air, electrical, environment controls, and effluent treatment). |