



“Strengthening of Integrated Pest and Disease Management in the Sugar Industry

IT DATA MANAGER

Strengthening of Integrated Pest and Disease Management in the Sugar Industry

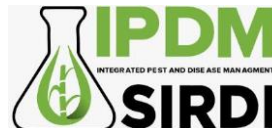
(DCI-SUCRE/2016/376-954)

SIRDI/IPDM/ITQ-010

Terms of Reference

I. BACKGROUND

- 1.1 The Sugar Industry Research and Development Institute (SIRDI) and the European Union (EU) have entered into an 18 month agreement for the provision of Strengthening Integrated Pest and Disease Management (IPDM) in the Sugar Industry. The project will deliver an effective and environmentally friendly pest and disease management system in the sugar industry.
- 1.2 The project is entitled: Strengthening of Integrated Pest and Disease Management (IPDM) in the Sugar Industry.
- 1.3 This project will create a competitive, diversified sugar industry that contributes to a sustainable environment in sugar production in Belize. The specific objective is to Strengthening of Integrated Pest and Disease Management (IPDM) in the Sugar Industry.
- 1.4 The design and implementation of the a IPDM will be executed by the Sugar Industry Research and Development Institute in close collaboration with key stakeholders including the three sugarcane farmers’ associations, government, developmental agencies and NGO’s.
- 1.5 The Project shall consist of the following four main components:
 - 1) Effective IPDM unit established with human resources, laboratory facilities and service provision with an early warning system serving the northern sugar belt.
 - 2) Capacity of sugar cane farmers, associations and SIRDI strengthened on best practices in IPDM.
 - 3) Field demonstration plots established to validate agronomic techniques in IPDM for participating cane farmers.
- 1.6 The Project consist of two major activates which are to:
 - 1) Collect data for the development of monitoring and early warning system
 - 2) Design and implement an effective monitoring system with an early warning system.



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- 1.7 Therefore, the IT Data Manager will be responsible to manage and assist in the development and integration of IPDM’s pest and disease’s early warning system for the Sugar Industry Management Information System (SIMIS).

II. OBJECTIVES OF THE EMPLOYMENT

- 2.1 The IT Data Manager will work closely alongside the software developer consultant and SIRDI staff members in order to provide maintenance and integration of Integrated Pest and Disease Management (IPDM) in the sugar industry data, provided by SIRDI and the Project.

III. ACADEMIC QUALIFICATIONS

- 3.1 Bachelor’s in Computer Science

IV. SPECIFIC EXPERIENCE

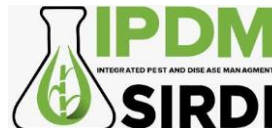
- 4.1 A minimum of two (2) years relevant working experience in Agriculture and Management Information Systems (MIS).
- 4.2 Experience in SQL database and C# Programming Language.
- 4.3 Knowledge in GIS and ESRI suites of products specifically ArcMap.

V. GENERAL EXPERIENCE

- 5.1 Proficient in English and Spanish

VI. SKILLS, KNOWLEDGE AND ABILITIES

- 6.1 Knowledge of Object Oriented Programming (OOP) and Database Administration.
- 6.2 Good knowledge of GIS and its application in sugarcane cultivation
- 6.3 Excellent (oral and written) command of the English language.
- 6.4 Knowledge in sugarcane cultivation and related pests.



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VII. DUTIES/RESPONSIBILITIES

Specific activities of the IT Data Manager include but are not limited to:

- 7.1 Daily backup and maintenance of SIMIS central database.
- 7.2 Work alongside Software Integration consultant to integrate GIS information from the “Strengthening of Integrated Pest and Disease Management (IPDM) in the Sugar Industry” Project into SIMIS Core Database.
- 7.3 Troubleshoot network related issues on SIMIS server and network.
- 7.4 Work closely with GIS technicians and data processing officers to verify quality of data collected in relationship to Pest and Disease.
- 7.5 Develop queries for reports based on collected IPDM data from the SIMIS central database.
- 7.6 Install and configure front end SIMIS IPDM software for all stakeholder.
- 7.7 Document and develop manuals for front end users and different stakeholders.
- 7.8 Use best practices in software development for front end development of reports.
- 7.9 Any other related duties as may be assigned by the PSC and by SIRDI Board.

VIII. CONTRACT DURATION:

- 8.1 The contract is expected to last 12 months, starting in September 1st, 2017 through August 31, 2018.

IX. PAYMENT AND CONDITIONS OF EMPLOYMENT:

- 9.1 Salary will be based on qualifications and maximum amount allotted by the “Strengthening of Integrated Pest and Disease Management (IPDM) in the Sugar Industry” Project.