# Food and Agriculture organization of the United Nations



### **Terms of Reference for Consultant/PSA**

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| **Job Title** | National Forest Inventory Database Development Consultant | | | |
| **Division/Department** | | FOM/FO | | |
| **Programme/Project Number** | | FAO project UNJP/PNG/004/UNJ | | |
| **Location** | | Rome, Italy | | |
| **Expected Start Date of Assignment** | | 17th February 2013 | **Duration:** | 6 months |
| **Reports to** | **Name:** Danilo Mollicone and Gino Miceli | | **Title:** | Forestry Officers |
| General Description of task(s) and objectives to be achieved | | | | |

Under the overall supervision of the Forestry Officer, LTO, UNJP/PNG/004/UNJ, and the guidance of the Forestry Officer, FAO-FIN Project, the consultant will function as a database development specialist performing the following duties with respect to the development of data analysis and support of information systems for forest monitoring inventory:

* Support database design for forest inventory data;
* Review and analysis of forest inventory data;
* Analysis, system design, planning and estimation;
* Database system maintenance;
* Contribute to improvement of procedures, frameworks and architectural approaches; and
* Publication of processed data.

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| key performance indicators | |
| Expected Outputs:   * A PNG-specific version of the Open Foris Collect software * A PNG-specific version of the Open Foris Calc software * A PNG-specific software tool to carry out a pre-inventory forest assessment through remote sensing * Other Open Foris software tools and products, as necessary | Required Completion Date:  17/07/2013 |
| Required Competencies | |
| Academic Qualifications  Advanced degree in Computer Engineering | |
| Technical Competencies and Experience Requirements   * Expert-level proficiency in Java and Flex; * Knowledge of the Open Foris Collect database software package * Knowledge of software engineering best practices and principles such as design patterns, object-oriented programming; * Demonstrated ability to work independently to support fully SDLC; * Experience working and communicating with developing country counterparts; * Excellent written and oral communication skills in English. | |
| Duty Station  Rome, Italy | |