# 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 QualificationsAdvanced 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.
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| Duty StationRome, Italy |