



GOVERNMENT OF SAMOA

**SAMOA SECOND INFRASTRUCTURE AND ASSET
MANAGEMENT PROJECT (SIAM II)**

COMPONENT 5.01: LAND ADMINISTRATION AND SURVEY

**Installation of Land Administration Reform
Equipment**

TECHNICAL ASSISTANCE REPORT NO. 31

SUBMITTED TO

MINISTRY OF NATURAL RESOURCES, ENVIRONMENT and METEOROLOGY

December 2005



Version Control

Version	Date	Type of Change(s)	Who
1.0	23 Dec	First Draft	CG & NP
1.1			

1. Background

The Samoan Second Infrastructure Asset Management Project (SIAM II), Component 5 'Sustainable Management: - Land Administration and Survey' provided for the specification and purchase of various computer equipment and software packages and to convert old microfilm records to digital image files. The equipment and data conversion service will be used to support the upgrade of the land registration system and associated technical and administrative processes within the Ministry of Natural Resources, Environment & Meteorology.

2. Technical Specifications for Computer Equipment

The equipment, including software, was fully specified in Technical Report No. 7 – Land Information Integration Procurement Specifications date April 2005.

Because of budget and procurement procedural issues, the procurement of the specified equipment was delayed for several weeks. All Land Information Integration and Land Administration Reform equipment has now been procured and installed with the exception of the microfilm conversion. The conversion is being undertaken by Desktop Imaging, NZ and is expected to be available for delivery in January 2006.

The Land Information Integration Adviser (Neil Pullar) has exercised some oversight of the conversion process at the request of MNREM because of his location in New Zealand. It is anticipated that he will carry the images with him on his final visit to the project early in 2006.

3. Equipment Installation Status

The following table is a status summary of the computers and ancillary equipment:

Item of Equipment	Section	Location	Supporting Function
3 Graphics Workstations	Draughting	3 in Draughting Section	<ul style="list-style-type: none"> - DCDB conversion - Survey Plan recording (on DCDB) - Survey Plan scanning - Survey Plan examination
4 Enquiry / Data Entry Workstations	Land Registration	1 in Sita's Office	<ul style="list-style-type: none"> - Checking land transactions and draft Titles prior to approval - Processing land transactions presented for registration - Entering details into database required to support new Title Registration system

Item of Equipment	Section	Location	Supporting Function
		1 at Public Counter	- Receive land transactions presented for registration (lodgement) - Provide copies and information services to lawyers, surveyors and the public
		2 within current work area	- Processing land transactions presented for registration - Scanning land transaction presented for registration - Entering details into database required to support new Title Registration system
1 Laptop	CEO	Current CEO laptop to IT Support ?	Software support to LII applications (swapped laptop)
1 Enquiry / Data Entry Workstation	Survey Section	Ueli's office	
Wireless Access Point	IT Support	Located in Pele's work area 3 new Graphics workstations & 5 Enquiry workstations to be connected to this Access Point. Access Point to also be connected to existing cable network to ensure connectivity to new File Server	Current network cabling in Molesi office is unable to support these additional LII workstations
Server	IT Support	File Server Enclosure.	- Host databases required to support LII applications - Facilitate Ministry wide access to LII applications
Supply of DVDs	Pele	Graphics workstations and new File Server have DVD RW Drives	Data Backups
Flash Drives	1 – 1 GB – Pele		Data transfer and

Item of Equipment	Section	Location	Supporting Function
	2 – 256 MB – Draughting 1 – 256 MB – Land Registration 1 – 256 MB – Surveying		temporary data backup
Single UPS	Draughting Section	To protect Ese's existing workstation	
A3 B&W Laser Printer	Land Registration	Land Registration general work area	- Provide copies and information services to lawyers, surveyors and the public
A4 Colour Laser Printer	Draughting Section	Draughting Section	- Required to produce A4 sized maps to assist maintain DCDB and prepare reports required by the Government
A4 B&W Laster Printer	Surveying Section	Ueli's office	Print Enquiry reports from new Geodetic Database
A3 Scanner	Land Registration Section	Connected to new Enquiry Workstation 1	Required to scan Foolscap size legal documents presented for registration
A4 Scanner with ADF	Land Registration Section	Connected to new Enquiry Workstation 2	Required to scan new (A4) standardised format documents presented for registration including multi-page documents
A4 Scanner (no ADF)	Draughting Section	Connected to new Graphic Workstation, not the Database Host or connected to A4 Colour printer	Required to scan A4 sized maps to assist maintain DCDB and prepare reports required by the Government
			To scan location diagrams of survey control marks
Large Format Roll Scanner (25 inches)	Draughting Section	Connected to new Graphic Workstation	To scan survey plans and any old survey plans that have not been microfilmed
Digital Camera	Draughting Section	To be used to capture digital images of very large or very fragile old maps	To produce scanned images of old plans to o fragile to scan or too large to be scanned

Item of Equipment	Section	Location	Supporting Function
Adobe Acrobat	Draughting Section Land Registration Section Survey Section IT Support	To be loaded onto 3 Graphics Workstation, 5 Enquiry Workstations, & the CEO's former laptop	To view and manage scanned images
MS Visual Studio.NET	IT Support	Loaded on the CEO's former laptop	To support LII software and, in the future, produce enhancements to this software
MS Visio Professional	IT Support	Loaded on the CEO's former laptop	To support LII software and for the design of any software enhancements
Autodesk AutoSketch	Valuation	Valuation to identify which existing workstation this software is to be loaded on	Valuation purposes
Norton Ghost	IT Support or Draughting Section	This software will be loaded onto the Database Host for the LII applications – either new File Server or one of the Graphics Workstations.	Disaster Recovery of Land registration, DCDB, scanned images and other LII records and software applications
Anti Virus Software	Draughting Section Land Registration Section Survey Section IT Support	To be loaded onto 3 Graphics Workstation, 5 Enquiry Workstations, & the CEO's former laptop	
HP 33S Calculators	6 – Draughting Section 4 – Surveying Section 4 – Managers		Plan examination
Measuring Wheel	Valuation Section		Valuation purposes
Mapinfo Professional	Draughting Section	To be loaded on each of the new Graphics Workstations	DCDB capture and maintenance
Mapinfo Spatialware	Draughting Section IT Support	Loaded on new server	DCDB capture and maintenance
SDRtransfer	Draughting	Ese's workstation	DCDB maintenance and

Item of Equipment	Section	Location	Supporting Function
	Section		plan examination
	Survey Section	Ueli's workstation	Survey Plan preparation
Scanned Images plan, registration documents & historical microfilmed documents	Land Registration Section & Draughting Section	To be loaded onto new File Server (Jan/Feb 2006)	- Support of land registration, surveying and plan examination. - information services to lawyers, surveyors and the public

4. Remaining Implementation Issues

As indicated above all Land Information Integration Procurements have been completed except the microfilm conversion (Desktop Imaging, NZ). This last procurement will be completed and digital images delivered in January 2006 (see item 9 below).

The following issues will be considered and action taken in early 2006 to complete the computing aspects of the land information integration and land administration reform components of the project

- 1 MNREM senior management have reassigned new workstations acquired for Land Registration operations
- 2 Reallocation of CEO's former laptop for IT Support has not yet happened
- 3 Nortons Ghost software has yet to be loaded and incorporated into disaster recovery procedures
- 4 Custom developed Geodetic database application yet to be loaded and implemented within MNREM
- 5 Transformation of GIS data to new datum, possibly using public domain software DATUMtran (NSW Department of Lands) has yet to be finalised
- 6 Enhanced survey program for new HP 33S Calculators yet to be completed
- 7 Training in use of SDRtransfer software yet to occur
- 8 Conversion of Microfilms to Digital Images at final quality testing stage. Expect to take delivery of Survey Plan Images early in January 2006.
- 9 Unclear as to what MNREM's intentions are with respect to the remaining microfilms (15,000) not included in the current contract with Desktop Imaging.