

Annex 2: List of website/GIS and Accounting software requirements by MARENA

1.0 MIS website

- About MARENA
 - MARENA Act
 - Mission, Vision and Core Values
 - Overview
 - Corporate Governance
 - Board
 - Board Committees
 - Management (organigram)
 - Memberships
- News & Updates
 - RE:Generation (Newsletter)
 - Social Media
- RE Framework
 - Policies & Regulations (Norms and Standards)
 - Funding Schemes
 - Financial Instruments
- Programmes and Activities
 - Studies
 - Capacity Building (Training programs, skills gap assessment)
 - Conferences and Workshops
 - Outreach (Events)
- Collaborations
 - National
 - International/ Regional
- Services
- Institutional Landscape (Ministries, Authorities, Parastatal bodies, NGOs, CBOs etc..)
- Resources
 - Barometer (Facts and Figures)
 - Energy Timeline
 - RE Resource Mapping
- Knowledge Centre
 - MARENA's documentation unit
 - Publications (Videos, Articles, Reports & Projects)
 - RE Basics
 - Glossary
 - Useful links (SM, EEMO, CEB, MEPU, URA etc..)
- RE Experts (TAC)
- Stakeholder Involvement
 - Registration (in MARENA's database)
 - Renewable Energy Certificates (RECs)
- Proposals (Process)
- Extranet
- Useful links
- Vacancies
- Procurement
- Extranet
- FAQs

- Contact Us

2.0 MIS Requirements

- [Website](http://marena.govmu.org/English/Pages/default.aspx) ([old](#): <http://marena.govmu.org/English/Pages/default.aspx>)
- [GIS](#)
- [Trainees](#) and Interns
- Recruitment of MARENA Staff (to develop)
- [Registration of Stakeholders](#)
- [RE Experts Registration](#)
- IPPs RE e-Certification (to develop)
- Services
- [Accounting](#)

GIS Hardware Requirements

Workstation based with multiple terminals:

GIS Workstations	1	HHT/Multicore CPU Speed (Octacore optimum), 64 GB or higher RAM, 3TB disk space (HDD and SSD) Graphic adapters: DirectX11, Shader Model 5 and Open GL 4.5 (or latest versions to be compatible with software updates and accommodate simultaneous use of software and large databases)
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Server to handle DEM at sub-meter resolution

HHT/Multicore CPU Speed (Octacore processor optimum), 64 GB or higher RAM, 3TB disk space (HDD and SSD)

Server	1	HHT/Multicore CPU Speed (Octacore processor optimum), 64 GB or higher RAM, 3TB disk space (HDD and SSD)
Software for server	1	Windows for server 2016 –
External Hard disk for Server	1	Capacity: 3 TB

GIS Software Requirements

Software Name	Version
ArcGIS Pro (complete with extensions)	2.2 or latest
ArcGIS Enterprise (complete with extensions)	10.6
AutoDesk	AutoCad 2019
ER Mapper	7.0 or latest
Geoviewer	
MapInfo	16.0 or latest
MapServer	7.0.7 or latest
QGIS (Open Source)	3.2
Surfer	V 14.0 or latest
Google Earth Pro	latest

3.0 WebGIS requirements:

- Interactive Resources mapping
 - RE Parameters (Solar, wind, biomass , wave etc..)
 - Real time data- graph (hourly, minutes)
 - Pulling data from monitoring stations around the island (cloud)
 - Display of historical data
 - Energy Infrastructure (Powerplants, transmission lines, substations and other resources)

4.0 Accounting software requirements

The following shall be included in the implementation of the accounting software:

About the software:

- User-friendly ERP interfaces
- Possibility to updates and upgrades for new version
- Multi user
- Use cloud-based software
- Project management module
- General ledger using segmented general ledger (minimum 5 levels)
- View data on past financial years (minimum 8 years)
- Multi-currency
- Reliable accounting software
- Module on procurement, payroll processing (or included as an add on module), asset management and fixed assets register, ability to produce tailor-made accounting reports (as listed below).

Accounting reports:

- Payroll processing - payroll calculation, pay slips, calculation of NPS/NSP, levy, PAYE, overtime, statement of emoluments, return of employees, bonus and other benefits, record on local & sick leaves.
- Fixed assets register - calculation of cost, depreciation and net book value.
- Multi-currency - possibility for automatic revaluation of balances/transactions, view balances and transactions in either home or foreign currency and calculation of foreign exchange differences.
- Processing of cashbook, journal entries, bank reconciliation and petty cash management.
- Debtors management - generate statement of accounts and ageing analysis
- Manage creditors and inventory - issue of purchase order, printing of cheque, remittance advice, ageing analysis.
- Budget monitoring
- Import of bank statements and possibility for automatic reconciliation
- Customisation of financial reports and management accounts using specific format (IPSAS) e.g Income statement, statement of financial position, cash flow, estimated budget v/s revised budget and revised estimate v/s actual and other financial reports.
- Project management and project editor module - allows the creation of main and sub projects, drill down facility, creation and editing of project types to categorize projects, project budget and contract amounts vs actual amount, cost report by project, project tracking/cost centers import cost.

Other requirements:

- Implementation and training - proper training should be provided to the trainees on how to

use the accounting system effectively including theory and direct practical sessions using live data.

- Training should be MQA approved and accumulates CPD points
- Maintenance contract - backup service, support and expertise to cover all technical help, assistance on how to use features by telephone, fax or email, remote connection and onsite intervention.