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CAPABILITY STATEMENT

JecoEng Ltd

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On the 28 October 2010 the Wai Votua village (Coral Coast) water and sanitation infrastructure project was opened by the acting Head of Mission, New Zealand High Commission (NZHC). This project embodies the skills and expertise of the villagers, local industry, New Zealand National Institute of Water & Atmospheric Research (NIWA) and Environmental Science and Research (ESR), Christchurch based consultancy ecoEng, University of the South Pacific's Institute of Applied Science, and Reef Explorer Fiji together with funding from the New Zealand Aid Programme and the full support and hard work of the Votua community.

Viliame Jeke (from Korolevu, Nadroga) and Andrew Dakers (ecoEng Ltd, New Zealand) provided community engagement, engineering design and project management of the installation for the Wai Votua project. One of the significant outcomes of this project was the decision by Jeke Viliame to set up an engineering consultancy company (JecoEng Ltd) to provide an integrated frontline technical and engineering service for the assessment, design, installation and servicing of water supply and sanitation infrastructures for villages and other rural communities. In addition JecoEng will offer community engagement and consultation services appropriate for Fijian village settings. The intention is that JecoEng Ltd will engage local people with the appropriate skills and knowledge at the same time as provide additional training to further advance local capacity.

ecoEng Ltd (an independent and co-operating company based in Christchurch, New Zealand) has over 12 years of experience in New Zealand and the South Pacific in sanitation and water supply engineering and training programmes. This company will provide a backup service particularly in terms of site and risk assessment, technical assessment and engineering design, costing, servicing and maintenance programmes and manuals and training.

It is clear that there is a significant capability gap within Fiji in terms of service providers that can objectively carry out the type of services that JecoEng, with support from sibling company ecoEng Ltd, proposes to offer. There are a number of organizations that can identify the needs for water supply and sanitation and tap into the funding, and conceptualize what needs to be done, but are unable to provide the **essential frontline detailed** site investigation, risk assessment, engineering through to installation, operations and servicing. **Clearly, until there is this in-country capability, sustainable water supply and sanitation infrastructure and services will never be achieved in the rural settings and villages.**

JecoEng Ltd (Viliame Jeke is the Principal Engineering Technician and one of the Directors) has a strong track record in village community consultation and engagement, Project Management for water supply and sanitation infrastructure installation, mechanical engineering, servicing and maintenance and electrical services trade.

ecoEng Ltd is a New Zealand based consulting engineering company (Andrew Dakers is Principal Engineer and one of the Directors) with a strong track record in community engagement, site assessment, options assessment, engineering design, and ecosystem impact assessment, risk assessment, regulatory compliance and advanced training, for small scale wastewater, stormwater and water supply engineering. When required ecoEng will, under sub contract to JecoEng Ltd, provide more advanced technical, and engineering backup to JecoEng Ltd.

Services Offered

JecoEng has the capability to provide a service package for water supply, wastewater sanitation and stormwater services for a village and other rural communities (e.g. schools). This package can include some or all of the following:

- Traditional and culturally appropriate engagement and consultation with the Fijian village community at all stages through a project.
- Site assessment and/or audit of existing services to identify current status of services, failures and real and relative risks.
- Carryout an issues and options evaluation, risk mitigation and impact assessment in terms of public health, ecosystem health and stability, cultural and social amenity service, technical, engineering and economic feasibility.
- Full engineering design, specifications and cost assessment (NPV) for preferred options.
- Project manage installation of a project.
- Prepare operation and maintenance programmes and manuals for water supply, wastewater sanitation and stormwater services for a village, rural schools and other rural developments.
- Prepare and present training programmes for all key stakeholders of the project.

Contact details:

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Photos of Viliame Jeke in action.

1. Collecting soil sample in the field



2. Addressing NZAid officials on the Votua Village site



3. Supervising installation of a septic tank in the village



4. Liaising with village elders and land owners



5. Running basic plumbing training for women in the village



6. Attending and informing village meetings



7. Negotiating with suppliers



8. Attending site meetings with Votua Village Water Committee



9. Supervising work gangs



10. At the end of a hot and busy day debriefing and preparing for the next day.



11. Jeke and Andrew Dakers (ecoEng Ltd) working on options for Botaira Resort, Naviti Island.



12. Votua Village wastewater pump sump filters being inspected.

