



The Department of Water and Sewerage in 2012 and 2013 in collaboration with JICA had researched and successfully implemented two EPS pilot projects in Kalokolevu Village and Navatuvula Village. These projects are cost effective water treatment technologies that are applicable to our rural areas.

Initially, Government had provided a \$2million EPS budget to DWS in 2015. With this funding, the Department managed to install 56 EPS projects all around Fiji in 2015 and 2016. However, the EPS budget was transferred to Water Authority of Fiji for the following years. From 2015 to date, a total of 109 EPS facilities are installed within the Rural communities of Fiji covering a total population of almost 30, 000 Fijians with an estimated budget of around \$6.3 million.

DWS continued with providing technical advice to WAF on investigation and implementation of EPS projects and also carry out inspection and water quality monitoring. The



Department also conducted EPS trainings with major stakeholders on investigation of EPS sites, design and planning and inspection of construction works.



The Constitution guarantees the right of every Fijian to clean and safe water in adequate quantities, and accessible and adequate sanitation facilities. Realizing this entitlement will ensure improved living standards with positive spill over benefits for the entire community.



Above is a photo of a well looked after 5 years old system in Naividamu, Macuata.

DWS has already taken timely steps towards providing clean and safe water to the rural communities with the implementation of the EPS projects. Government's provision of annual budget to WAF will ensure that we are able to continue with this program and improve the water quality for rural schemes. The Water Committee will have to effectively operate and maintain the system to ensure the sustainability of the EPS projects.



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**DEPARTMENT
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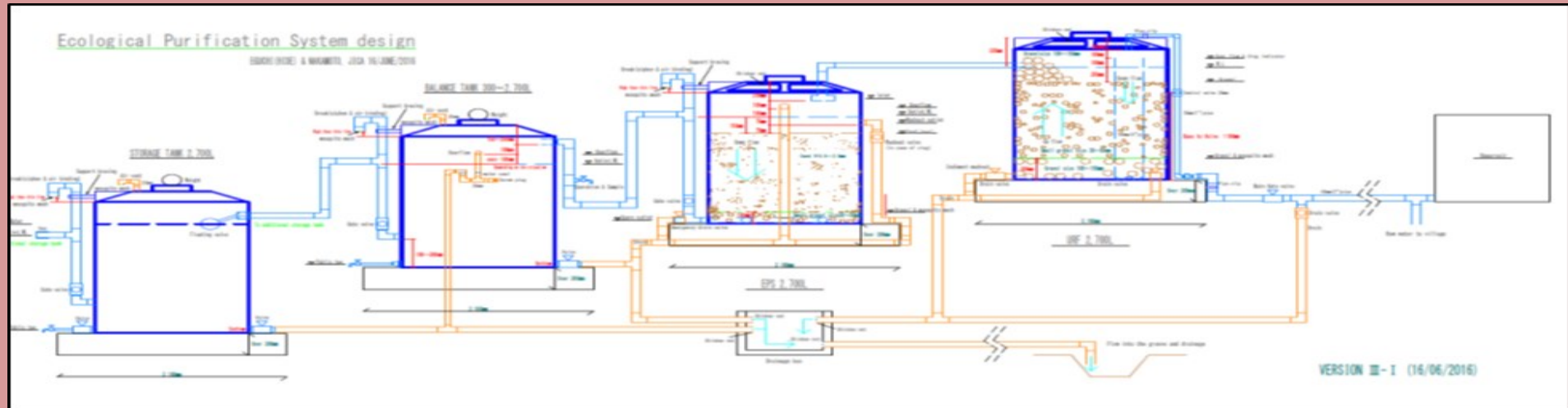


ECOLOGICAL PURIFICATION SYSTEM

The implementation of community based Ecological Purification System (EPS) projects was made possible through funding assistance by the Department of Water and Sewerage (DWS), construction by the Department of Works, both of which are under the Ministry of Infrastructure and Meteorological Services and Technical Assistance from the Japan International Cooperation Agency (JICA)

The EPS is designed to make a germ free, safe drinking water by use of natural ecological processes without chemicals. This technology was invented by EPS expert, Dr. Nobutada Nakamoto in Japan. The original Fiji Rota tank system for rural communities was designed by DWS in 2013. The Department has approved this system to be used for installation in rural communities.

"CLEAN AND SAFE WATER IN ADEQUATE QUANTITIES AND PROPER AND ADEQUATE SANITATION FOR EVERY FIJIAN HOUSEHOLD"



WHAT IS AN ECOLOGICAL PURIFICATION SYSTEM?

An Ecological Purification System (EPS) utilizes method of purifying water using natural based medium consisting of stones, gravel and sand stored in two or three different tanks. Water will filter through the natural-based undergoing a purification process before it is ready for consumption.



Algae grows on sand surface to provide oxygen, trap particles and remove nutrients. Other micro-organisms decompose organic matter. This food web results in the removal of impurities (organic/ inorganic and pathogenic) in the process, resulting in purified water.

The system does not require power or chemicals. It is cost effective and simple to use and construct.



For every EPS project, the department conducts inspections during the construction phase and completion stages to ensure that implementations are carried out according to specifications.

DWS monitors water quality of all EPS facilities in the country and advises WAF on recommendations for maximum efficiency of the system.