

APII NIKAO AVATEA HALL WASTEWATER TREATMENT UPGRADE**1. SCOPE OF WORKS:**

1. Assess existing septic tank
 - a. Assess existing septic tank to incorporate into new wastewater treatment system design
2. Demolition
 - b. Removal of existing septic tank if unable to incorporate into design
 - c. Cut-off sewer line connection to existing septic tank
 - d. Decommission septic tank and fill
3. Construction
 - e. Install new wastewater treatment system in line with Public Health (Sewage) Regulations
 - f. Connect bathroom sewer lines or existing septic tank to new treatment system
 - g. Replace gully trap(s) where necessary
 - h. Commission system
4. Maintenance
 - i. Provide treatment system maintenance for a period of not less than 12 months after commissioning.
 - j. Provide as-built drawings for the new wastewater treatment system
 - k. Provide training to nominated personnel for operation and ongoing maintenance.
 - l. Transfer ownership, maintenance manuals and warranties to CIIC at the end of the 12 month maintenance period.

2. SPECIFICATION OF MATERIALS AND WORKS:**1. Design flow:**

The designed population equivalent for the proposed Avatea Hall sanitation system is estimated at 500 students including teaching staff.

The designed treatment loading per person per day is 20l/p/d (hydraulic loading)

Estimated Total hydraulic loading is >10,000L/d.

The contractor must design the system to fit within the current land boundaries, and in accordance with current Public Health, National Environment Services, and Building Control regulations and codes.

2. Treatment levels shall meet and be maintained at the levels required by Public Health and National Environment Services.
3. The contractor, on award, shall arrange all necessary permits and consents.
4. All materials to be used shall be brand new and not refurbished in anyway.
5. Only proven technology shall be used.
6. The system must be alarmed with full 24-hour emergency storage capacity