

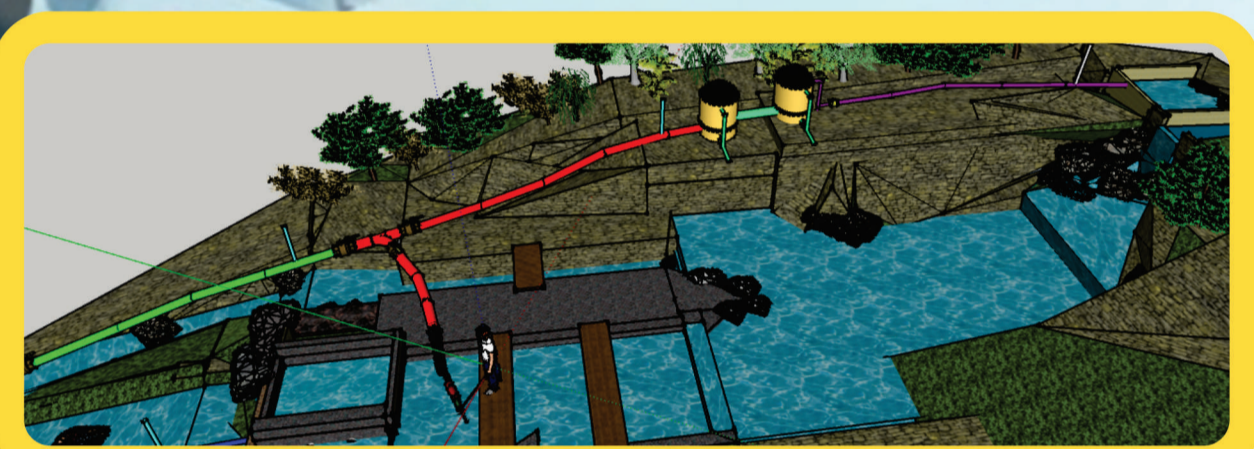
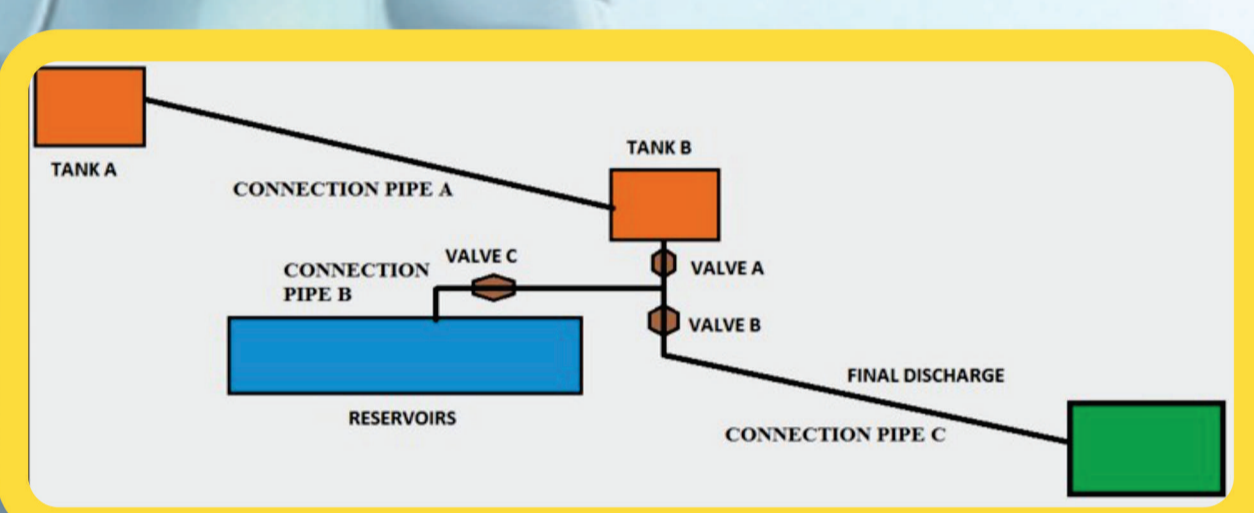


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INTELLECTUAL PROPERTY:
 PATENT PENDING (PI 2016500007) ◀
 PATENT PENDING (PI 2016500036) ◀

Zero Energy Sediment Removal Systems from Dam



Zero Energy Sediment Removal Systems from Dam

- An efficient sediment removal systems from dams and reservoirs

PROBLEM STATEMENTS

- Sand and sediment in the reservoir, dam or water supply tank will disrupt water supply operation efficiency.
- Water supply reservoir in rural area which usually does not exceed 100m³ capacity could not supply water when sand and silt accumulated in the reservoir and in the distribution pipes.
- Frequent clean up by the rural residents take tolls on their daily work and income.

INVENTIVENESS AND NOVELTY

- Vacuum gravity technique is manipulated to suck and remove sand and sediment from small dams.
- No power supply is required - Zero Energy

INTELLECTUAL PROPERTY STATUS

- 2 Patent Pending (PI 2016500007 and PI 2016500036)

USEFULLNESS AND APPLICATION

- Optimum gravity pulls and the available water will transport out sand and sediments from the bottom of the dam.
- Able to remove sediments with minimum man-power (two-person operator) within shorter time.

STATUS OF INVENTION

- The system has been successfully tested on site
- Technology Readiness Level - TRL 7

COMMERCIAL POTENTIAL

- Solving community issues in rural area
- Low cost high impact

POTENTIAL PARTNERS

- Dam maintenance contractors
- Existing Partner: Radvision Engineering Sdn Bhd

KNOWLEDGE MANAGEMENT

- The invention of this system is financially supported by PRGS grant.
- Output: 2 patents filed.

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