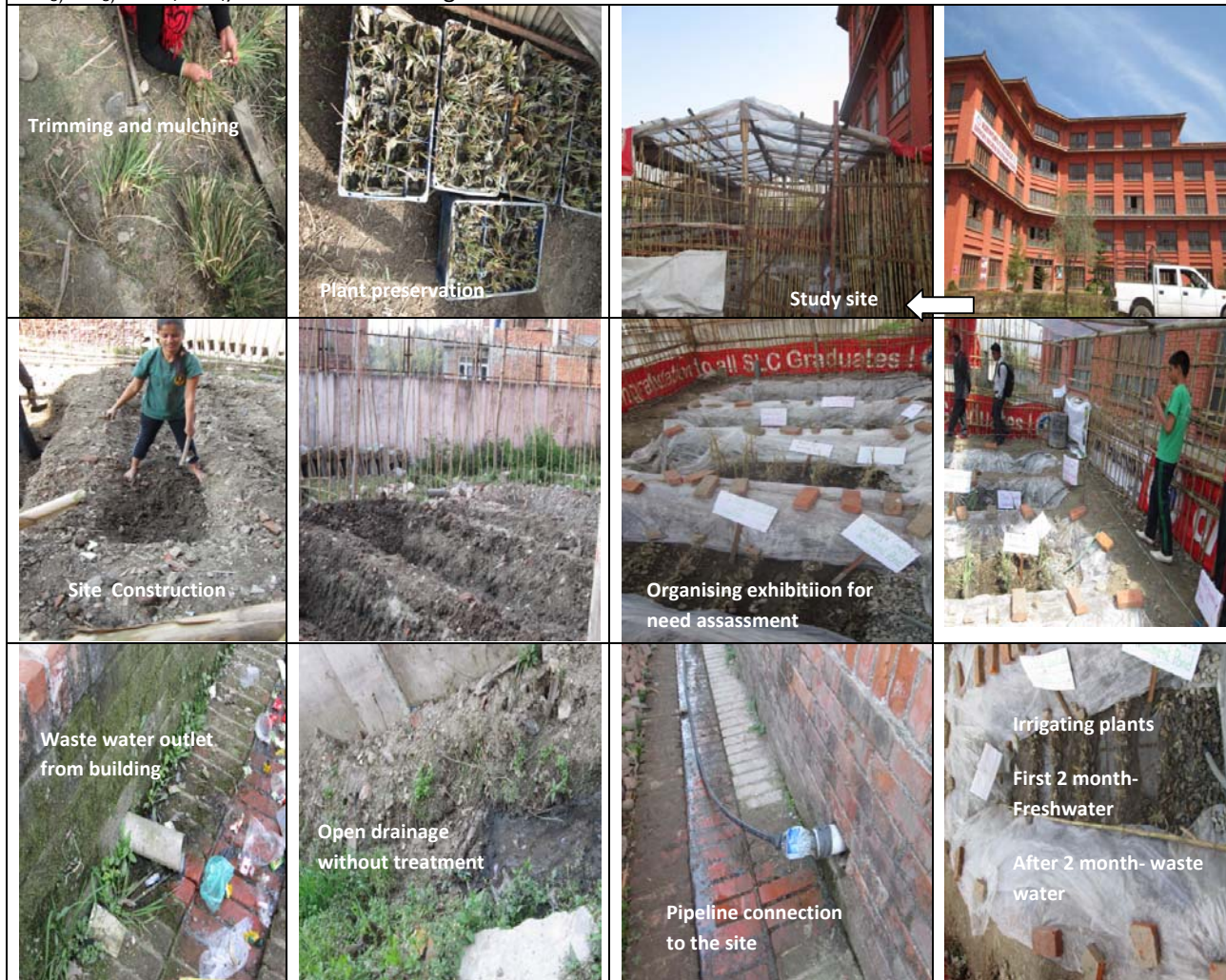






















© Nandani Ghimire, 2014

Research Site: Khwopa College, Bhaktapur Nepal
Research Period: March- July 2014 (Plantation Date: 5th March 2014)
Researcher: Nandani Pari Ghimire, M.Sc. Thesis Student, Environmental Science
Research Topic: Biological Wastewater treatment: Comparative study Using Vetiver(*Vetiver zizanioides*) and Narkot (*Phragmites karka*)

Type of wastewater used: Toilet, Kitchen and college's Chemistry laboratory wastewater (Mixed)
Parameters for study: Plants morphology and water quality(PH, conductivity, turbidity, BOD, COD, CO₂, Cl, K, NO₃, NH₃, Tot P, PO₄) results- Still working on



Plants' Developmental Phases	Treatment Pond with <i>Vetiver zizanioides</i>	Treatment Pond with <i>Phragmites karka</i>	Treatment Pond with both plant varieties	4 treatment ponds together (one pond for natural varieties of grasses, control)
During Plantation (5 th March 2014)	 <p>Inlet pipe →</p>	 <p>Perforated plastic pipe for equal water distribution</p>	 <p>Initial Gravel line with net for solid particle control</p>	
After 1 month (5 th April 2014)				 <p>Control pond Control pond</p>
After 2 month (5 th May 2014)				 <p>Treated water outlet for lab tests</p>
After 3 month (5 th June 2014)				
After 4 month (5 th July 2014)				 <p>Control pond</p>
After 5 month (5 th August 2014)	