



NATURAL ENVIRONMENT RESEARCH COUNCIL

enquiries@ceh.ac.uk WWW.Ceh.ac.uk Monitoring the Benefits of Decentralised Wastewater Treatment in Ibrahimpur-Masahi Village (Dist. Haridwar, Uttarakhand, India)



A collaborative Study between the National Institute of Hydrology (Roorkee) & Centre for Ecology & Hydrology (UK)

Main Aims of Study

To assess the improvements in water quality and ecological health following implementation of a constructed wetland treatment system to treat village grey water (Domestic Wastewater)
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2) Evaluate the potential economic and health benefits of improvements to the local village

Methods

 Develop a set of indicators of water quality and ecological health that indicate environmental quality relevant to UN Sustainable Development Goals (water quality, food production, health)
Evaluate the benefits by comparing indicators at two village ponds: a control pond with no water

treatment (Fig. 1) and a pond with constructed wetland treatment implemented (Fig. 2)



Fig. 1 Masahi Kala Pond {Without treatment System}

Fig. 2 Ibrahimpur Masahi Pond {With CW based Natural treatment System}

Indicator

Masahi Kala Pond

Ibrahimpur Masahi Pond



Conclusions

Immediate benefits of water treatment are clearly visible and are having measured positive impacts on water quality and ecological health that, if sustained, should lead to health and economic benefits

Further information: NIH, Roorkee/Laurence Carvalho, CEH Edinburgh, U.K.