

Project under Hydrology & Cryosphere

Title	PI	Institute	Sanction Order and Date	Duration	Status	Major Equipment
Resistance characteristics of alluvial channel with mobile bed vegetation	Dr. Bimlesh Kumar	Dept. of Civil Engineering, IIT, Guwahati.	MoES/PAMC/H&C/26/2013-PC-II 1 December 2014	2 Years	On-going	

Abstract:

The hydraulic resistance of vegetation can play a major role in the hydrodynamics of rivers with extensive natural floodplains. Contrary to commonly used wall roughness methods, vegetation penetrates the flow field and thereby causes drag and, subsequently, additional energy losses. The project proposal aims in establishing the effect of seepage from alluvial channel on resistance imparted by the vegetation. A simple predictor of resistance equation from vegetation with downward seepage as additional parameter will be the specific deliverables of this project.