



Aquitaine – Karnataka collaboration Scientific Project for Pre- PhD student exchange Scientific Proposal

Project Title	Design, Development and Evaluation of Automatically controlled 3-Way Gate Valve to control the flow in Micro Irrigation System	
Scientific domain	Agriculture	
Summary (ca. 10 lines)	Irrigation is an artificial application of water to the soil to protect the crop from soil moisture stress. Precise use of water in the irrigation system place an important role due to scarcity of irrigation water in the cropped area. The scientist has estimated the frequency and quantity of water required to the perennial and commercial crops for their healthy growth. Presently the water required by the cropped area is managed manually leading to less or excess irrigation. Which effected the healthy growth of plants and hence reduction in yield. Installation of automatically controlled gate valves in the micro irrigation systems play an important role in controlling the desired application of water and avoid the risk of the farmer in irrigation the crop during late night hours, to save water and cost of cultivation. Keeping the above observation in view the project entitled “Design, Development and Evaluation of Automatically controlled 3-Way Gate Valve to control the flow in Micro Irrigation System” is proposed.	
Student profile wished	Master in Machine Design	
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Timing & duration for project(give approximate ranges)	Approximate five months from July 2015	
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