

**Aquintaine – Karnataka Collaboration
Scientific Project for Pre – Phd Student Exchange
Scientific Proposal**

Project Title	Power Factor Improvisation in PV-Solar Energy Systems By Harmonics Mitigation.	
Scientific Domain	Renewable energy sources	
Summary	Global demand of electrical energy is growing by high rate due to the requirement of modern civilization. Recently, energy generated from clean, efficient and environmentally friendly sources has become one of the major challenges for engineers and scientists. Among them, Photo Voltaic (PV) application has received a great attention in research because it appears to be one of the most efficient and effective solutions to this environmental problem. PV systems are grid-connected with nonlinear loads. These nonlinear loads affect the system power quality by introducing harmonics. The proper inverter designs can improve the power factor by mitigating the harmonics.	
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Timing And Duration For Project	Eight months	
Representative References		