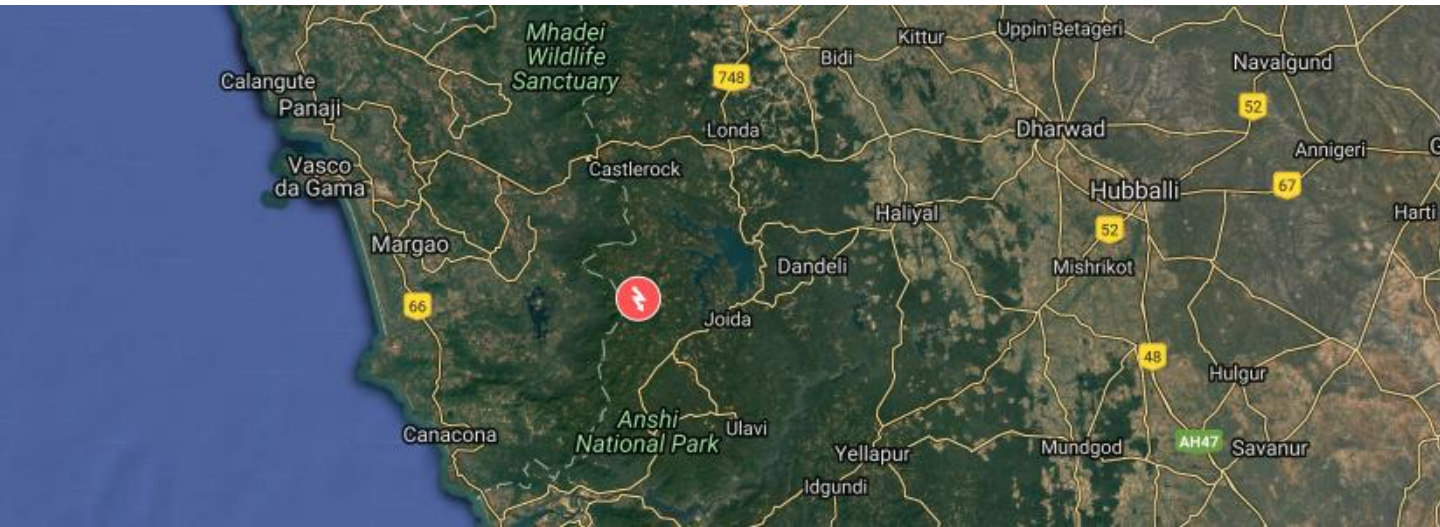


# Bhamane

15°11'59.2"N 74°20'40.3"E  
Joida Tehsil  
Uttar Karnataka District

32 Households. 160 Population.  
Date of Commissioning 3<sup>rd</sup> March 2016  
Hybrid Microgrid (Solar+Micro-Hydro)



## 2016

Bhamane is a remote village under the Gram Panchayat Kumbarwada, which is located deep inside a forest. Although located only 15kms from the main grid line, Bhamane had no access to electricity. Situated close to a flowing water body, Bhamane had the advantage of being able to farm through the year. The area receives a good amount of rainfall during the monsoon months too.

### Technical Specifications

Solar Capacity -3 kWp  
Hydro Capacity – 5kW  
Turbine – Smart Hydro Power  
Solar Modules – Anchor by Panasonic, 250 Wp (12nos.)  
Battery Bank - Amara Raja, 425 AH, 48V VRLA, AGM  
Inverter – Studer 5kW  
Grid – 650m



## 2018

Bhamane, apart from having access to a 24/7 reliable supply to electricity via a solar plus micro-hydro microgrid; is now able to power a rice huller and a flour mill. Two schools are connected to the micro-grid which benefits the infrastructure availability for the children of the area. The village energy committee of Bhamane collects monthly bills, deposits it into their account and updates the local NGO in a timely manner. The institutional development there has been seen to be a true example of the bottom up approach Gram Oorja propagates.

Project Completed by Gram Oorja Solutions  
Project Supported by Sanjeevini Seva Trust and Smart Hydro Power





Solar PV Generation



Micro-Hydro



Community Engagement



Control Room



Rice Huller



Flour Mill

Project Completed by Gram Oorja Solutions  
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