

### ***Biofuel park***

Biofuel Park is supported by Government of Karnataka to promote cultivation of tree born oil seeds and to use biofuel as energy source.

- ✓ Three villages viz., Kinnarahalli, Hoovinahalli & Haenahalli have been recognized as Smokeless Villages.
- ✓ 472 farmers associations and 123972 farmers were trained
- ✓ 23 oil expellers & 17.0 lakh seedlings were distributed to farmers
- ✓ 2500 training programs were conducted
- ✓ 270 biogas units were established

### ***Bioenergy Research Information and Demonstration Centre***

- ✓ Collection and conservation of tree born oil seeds, Processing and value addition
- ✓ Training programmes are conducted for farmers and entrepreneurs.
- ✓ Currently producing around 200 litres of biodiesel per month.

### ***Bioenergy Research and Quality Assurance Laboratory***

- ✓ Test the quality parameters of Biodiesel according to International Standards such as ASTM, BIS and EN standards
- ✓ Quality analysis of nearly 350 samples were performed.

### ***Solar Energy***

- ✓ 100 kW of solar energy is produced every day in GKVK main campus while other sub-campuses produce 50 kW.
- ✓ Solar water heating systems & Solar street lights

### ***Biogas***

- ✓ Biowaste of 200 cows, sheep, goats reared in the GKVK farm are being used for the bio-methanation process
- ✓ About 4 to 5 tons of cow dung and agricultural waste available at the GKVK campus is being used for 3 biogas generation units of 200m capacity
- ✓ Biogas plant installed at ZARS, GKVK and VC Farm, Mandya generate about 300-320 electrical units per day and 25 KW Biogas generator runs for 10-12 hrs/day
- ✓ 25 biogas-based power generation units have been established in the farmers land as a PPP model (40:60 ratio of farmers and Government of India).