Technology Systems Programme

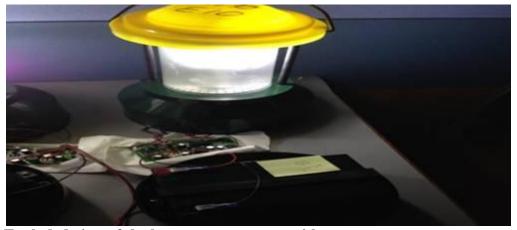
15.) Indian Institute of Science (IISc), Bangalore has developed and demonstrated Hybrid Ultracapacitor (HUC) lighted solar/mechanical/grid chargeable lanterns with mobile charger. HUC technology is protected by the Institute and its know-how is transferred to M/s Mesha Inc., US.

A photograph of the HUC along with some lantern units with their technical specifications is given below.



The technical features of the lanterns are as under.

- 1. 2W cool white LED light.
- 2. 4-5 hours lighting from fully charged condition.
- 3. Full charging time about 2 hrs.
- 4. Charging possibilities through grid, solar and mechanically driven dynamo.
- 5. Mobile charging via USB.
- 6. 5 year product warranty.
- 7. Meets MNRE specifications.



Exploded view of the lantern components with energy management system.

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