

**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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