

4.0 Energy Conservation:-

4.1 Continuous monitoring of energy consumption of various shop/sheds/service buildings through individual energy meters is done by energy conservation team headed by Dy CEE and ADEE.

4.2 Replacement of old inefficient High pressure sodium vapour lamps with high wattage CFL lamps and Metal halide lamps.

4.3 Energy conservation week observed and seminar was conducted to spread awareness among workshop staff.

4.4 **Solar Energy**

i) Electrical department of workshop has began the process of installation of shed rooftops with an aggregated capacity of 1.5 MWp solar PV project. This project is based on “Design, Build, Finance, Operate and Transfer” (DBFOT) basis. Electrical energy generated through this project is utilized by workshop and any surplus will be exported to DVVNL.

ii) Proposal of Solar Energy panel of 50 KVA load at 6 locations (Admin Bldg.STC Hostel, DY.CMM Office, Metallurgy Lab. & Account office) has already been sent to Railway Board for approval.

4.5 **LED Lights:** - To improve the illumination levels and energy conservation, all the existing CFL lamps and HPSV & MH lamp fittings will be replaced by low wattage with equivalent lumens level LED lamp fittings. This will be done in phased manner. In the first phase, procurement of 160 Nos 60 watt, 110 Nos 70 watt and 1100 Nos Retro-fit T-5 LED lights is being done through store requisitions. LED fittings are being procured as per latest Railway Board guidelines and RDSO specification.

4.6 **Energy efficient fittings provided on replacement account during March 16 to Dec.16.**

- a) **Retro-fitment / T- 5 of 28 W in place of 60 W - 210 Nos.**
- b) 65/85 watt CFLs in place of 250 watt HPSV&MH lamps - 170 Nos.
- c) 40/50 watt Ceiling Fans in place of 60/70 watt fans - 78 Nos.