

## ENERGY SCAVENGER HUNT

From the desk of Environment Club

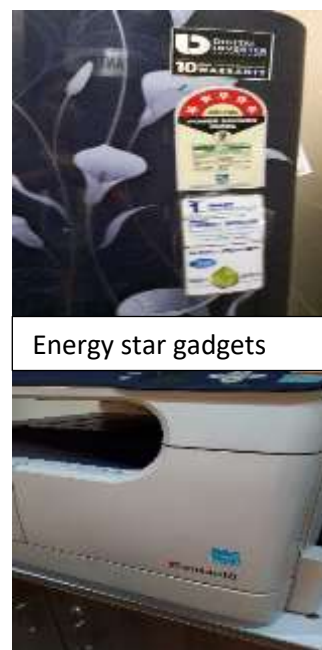
### REPORT

Under the aegis of Environment club, the energy scavenger hunt activities were taken up by energy team and worked out all possibilities, strategies and mass awareness campaigns to achieve the goal of minimal consumption and maximum conservation and make this campaign a successful step towards 'urja bachao,desh badhao'.

#### 1.An Inspection of Electrical Gadget and Tool Room

The Energy saving team (Urja Sangrahak ) of the school visited the electrical room of the school on October 13<sup>th</sup> ,2017,as well as all the locations where electrical gadgets(computer room, Kitchen area, Laboratories) are placed in the school campus and noted the following points after their detailed inspection under the supervision of Administrative Officer of school, Mr. Halder.

- 1.The insulation of the wires in the tool room was found perfect as per the standards.
2. Thimbles were properly maintained and were regularly replaced as per the requirement.
- 3.Existing systems of CFL lights are replaced by **LED** light system to be energy sufficient.
- 4.Computers in the computer room which were not in use, were found in switch off mode system rather than standby mode.
- 5.The electrical Gadgets like water coolers are in auto mode system to switch off when water is cooled.
6. The gadgets in usage are energy-star gadgets for e.g. refrigerators, air conditioners, photocopiers and Microwave.
7. The cooling system was natural as it was properly aerated, and no extra system was installed to cool the gadgets.



Energy star gadgets

#### Strategies Practiced-

- 1.. Class Status Booklet was found to be filled regularly by the class teachers to provide status of electrical Gadgets of their class to their reporting officers and further action was taken immediately by administrative officer.
2. Every class has a class monitor to switch off the fans and light of the classroom, if leaving the class room for other venues.
3. During day time no lights are switched on as the class rooms are daylight.



Energy monitors

4. The Air conditioners are provided only at places of basic need for efficient working of gadgets like for e.g. Computer room, Staff room, Administrative office, Library, Head Mistress Room, Vice Principal's room and Principals Room. Strict instructions are followed by all to run the gadgets in the most efficient mode for the least number of hours to save energy. They are switched on strictly after 11a.m during summers to beat the heat.

5. The devices used by horticulture unit is manually driven for e.g. lawn mower.

The size of photocopier system (3 in no.), placed at locations is as per the requirement to curb the usage of electricity.

7. The school has a **memorandum of understanding (MOU or MoU)** between its sister schools to follow the minimal use and maximum conservation of energy which is strictly followed under environment Policy

### **Operational Strategies in action--(Discussion with A.O Mr. Halder)**

1. The solar systems are in a process of materialization and further installation.

2. CFLs are replaced by LED lights.

3. to bring in occupancy sensor gadgets asap.

### **2) Creative Ideas -Saving energy-**

A debate on **creative ideas to save energy** was conducted by the students and resulted in ideas like-

a) There should be **auto diminution light bulbs** which can increase the brightness of light or decrease as per requirement instead of putting one standard watt bulb.

b) The flooring can have **pizzo cells** to generate energy by footsteps which can meet the demand of that floor to a sufficient amount.

c) The roofing of the classes should be able **to minimize the energy** usage as to keep classes cool during summers and insulate during winters.

### **3)Energy Saving Pledge -**

*I understand that energy consumption affects our natural environment and human health and wellbeing.*

*I pledge to make every effort to support UP Energy campaign and commitment to save energy and to be a role model for others. I pledge that I will strive to:*

*Use lights only when necessary and turn lights out as I leave rooms empty or pass, and encourage others to do the same.*

*Close windows and doors to prevent the loss of air conditioning and heat.*

*Avoid using heating and air-conditioning whenever possible.*

*Learn how to change the power settings on my computer to "energy saver"*

*Limit my electrical demands. .*

*Avoid coming to school in my personal vehicle and prefer carpooling and public transport whenever possible.*



**4) Estimation of energy saved used by computers in school-**

a)  $47 \times 0.794 \times 16 = 597.08$  (saved) (Mon-sat)

b)  $47 \times 0.794 \times 24 = 895.6329$  (saved)( On Sunday)

**Energy Club**