FIELD TRIP – 1

Name of the organizer : Department of Physics

Name of the Field trip : Energy efficiency and demand side management in Agriculture sector.

No.of students involved : 10

No.of teachers involved : 02

Date of the visit : 04-02-2020

Place of the visit : Krishi Vignana Kendram (KVK), Bellam pally

Objectives of the Field trip :

Agri culture constitutes around 18.5 percent of India's total energy consumption and its power consumption is expected to rise by an estimated 54 percent b/w 2015 and 2022.

An estimated 2.1 crore agricultural pump sets are connected to power grid in India , to meet the irrigation needs of Indian farmers. Due to affordability , locally made inefficient pump sets that contribute to both energy and water wastage are being used by the Indian farmers with access to heavily subsidized water and electricity, farmers need a viable incentive to adopt more energy efficient practices.

In response , we are implementing the world's largest Agricultural demand side management program. Under the program, inefficient agricultural pump sets are replaced with BEE 5 star-rated energy efficient pump sets. AgDSM implementation can reduce peak demand and ultimately the total energy consumption in the Agricultural sector.

Expenditure incured & resources required : NIL

Problems encountered : NIL

Name of the resource person : K.V.K. Bellam pally

Out come of the visit (or)
Students gained knowledge about :

Our students are mainly from the rural areas. And they are from Agricultural back ground. So, They are more using pump sets for agriculture.

From this field trip students are learned about how to save energy with using motor pump sets. And also learned about the efficiency of energy with using different type of pump sets.

This field trip is more useful to our students.