

FIELD VISITS

Field Visit-2022 :-

The Department of Civil Engineering, WISTM arranged a field visit on 13 May 2022



This year field visit covered three places which are situated in Visakhapatnam. The places are:

1. FLOATING SOLAR PLANT AT MEGHADRI GEDDA RESERVOIR
2. WATER TREATMENT PLANT AT MUDASARLOVA RESERVOIR
3. CONCRETE RAILWAY SLEEPERS PLANT PENDURTHI

120 Students from II/IV, III/IV and IV/IV B.E Civil Engineering Students accompanied by 6 senior faculty members, Sri K.RAJESH ,Sri P.VAMSI, Ms. P.GOWTHAMI, Ms. DEBA PRIYA PAUL, Ms.SNEHA SAI & Sri. SRINIVAS went to field visit and also they explained the key parameters at the site

The Site manager SRI. PRADEEP KUMAR explained about the floating solar plant, it's types, how they construct, materials using, power generation and power transmission to the power sub station. Sir, also explained many technical aspects and also other types of renewable energies and how they work. The power generated from this plant is 3MWp and the cost of the project is 16 Cr.



The explanation of the whole project went upto 1½ hr to 2hrs and then our students asked the doubts regarding the project.





- **What was the purpose of the floats?**
It is an floating equipment on water bodies, which will hold solar panels, cables, walkway, etc.....
- **Advantages of our Floats?**
Floats are filled with foam materials and it not allow water to ingress into the floats, if any holes/damages happened.



OVERVIEW OF SOLAR POWER PLANT

**Solar modules → string Inverter → AC Combiner box → Transformer → HT Panel
→ Transmission Line → Narava 33/11 KV Substation**

After the completion of the 1st Industrial tour then we headed to the MUDASARLOVA RESERVOIR to know about the water treatment.



There we saw the machinery of the many water treatment process and also our faculty explained about the process of water curing.



And finally we headed to the CONCRETE RAILWAY SLEEPERS PLANT AT PENDURTHI.

There the Site Incharge have explained about the railway sleepers there manufacturing, curing period and the quality tests.



Sri Uma maheswar rao and jagan sir, who are the incharge they explained the procedure and showed different phases of preparation



They have shown how the tendons are stressed, anchors are placed and the casting and curing process too which gives full idea about preparation of railway sleepers



The field visit went on smoothly and it enhanced and threw more light on the practical aspects of the CIVIL engineering subjects.