

GRIET/2022/IEEE IAS SBC-2

## **EVENT SUMMARY REPORT**

GRIET/Other						
institutes/Organization						
Address:	GRIET					
		Professional	l Body	Institutional Body		
	EEE	110105510114	Douy	Institutional Douy		
Department		IEEE-IAS S	SB Chapter	IEEE GRIET SB		
		IA34 (SBC6	4761C)			
			,			
Nature of the Event						
(Workshop / Seminar /						
Guest Lecture / Tech	Industrial visit					
Talk/FDP/GD/ Training						
Program / Quiz /						
Presentation/Conference/ Industry Visit/Any Co &						
Extracurricular						
Activities						
Title / Theme of the Event	Industrial Visit To 400kV Power Grid Substation					
Lvent						
	Dr. Pakkiraiah B					
Details of the Coordinators& Designation	Associate Professor (department of EEE)					
	GRIET, Hyderabad					
	Mrs G Sandya Rani					
	IEEE GRIET IAS SB Chapter Advisor					
Event Dates/Days	From	То	No. of Days			
	28 <sup>th</sup>	28 <sup>th</sup>				
	February	February	01			
	2022	2022				

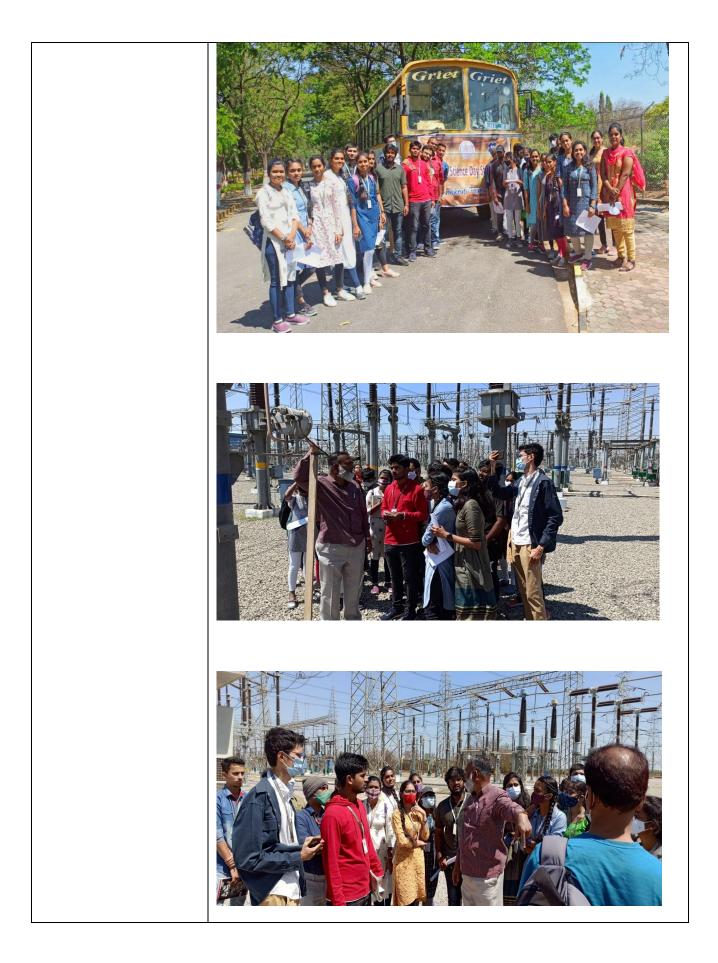
Details of the Speaker / Guest	Shri Mohamn	ned Mosin, Dep	outy, Gener	al Manager, Po	ower Grid
Organization	Corporation of India Ltd Sub-station, Ghatkesar, Ranga				
Address:	Reddy District, Telangana, India				
Participants		No.	No. of	No. of	
(Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	of UG students	PG Students	outside participants	Total Participants
Enclose participants list	1	25	0	0	26
Faculty Names & Designation	Dr. Pakkiraiah B, Associate Professor, EEE Department				
Summary of the Event	The department of Electrical Engineering, Gokaraju Rangaraju College of Engineering and Technology, Hyderabad had organized a one-day Industrial visit to 400kV Power Grid Substation, Ghatkesar on 28 <sup>th</sup> February, 2022. There were 25 students from EEE- III year along with teaching faculties Dr.Pakkiraiah. At 10:30 am, we reached at Substation, Ghatkesar. After reaching there, Shri Mohammed Mosin received us with a warm welcome. Mohammed Mosin sir had explained the working substation in depth. Then we were taken to the control room. In the control room, every quantity of the substation is continuously monitored and we observed the real time data of substation on the panel. <b>&gt; OBJECTIVE OF VISIT:</b> The trip was organized by the Samskruti Foundation and this visit was known as "National Science Day Study Trip". This foundation is coped with many engineering colleges to provide awareness about value ethics, tradition and culture of India. Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge of electrical power transmission and distribution. Being III-year students, they will get to know about basic industrial functioning of power transmission and distribution. Students will also get familiar with Transformer maintenance, circuit breaker, Transformer isolator, bus bar, Protective relays, Lightening arresters, Load break switches, SCADA system, Current and voltage Transformer and Battery room.				
	> EQUIF	PMENT IN A 40	OKV SUB-	STATION:	

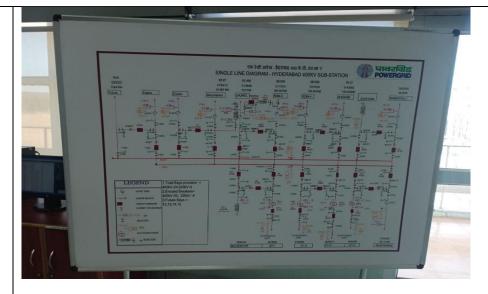
The equipment required for a transformer Sub-Station depends upon the type of Sub-Station, Service requirement and the degree of protection desired. 400KV EHV Sub-Station has the following major equipment's: • Bus-bar • Insulators • Isolating Switches • Circuit breaker • Protective relay • Instrument Transformer • Current Transformer Voltage Transformer • Metering and Indicating Instrument • Miscellaneous equipment • Transformer • Lightening arrestors • Line isolator • Wave tap Shri Mohammed Mosin sir had explained the above equipment's one by one, their functions etc. He explained each and every thing with a great interest and shared a lot of knowledge with us. He explained the how the transmission and distribution takes places, the protective schemes taken to protect the equipment's present in substation. SINGLE LINE DIAGRAM (SLD): A Single Line Diagram (SLD) of an Electrical System is the Line Diagram of the concerned Electrical System which includes all the required ELECTRICAL EQUIPMENT connection sequence wise from the point of entrance of Power up to the end of the scope of the mentioned Work. As these feeders enter the station they are to pass through various instruments. The instruments have their usual functioning.

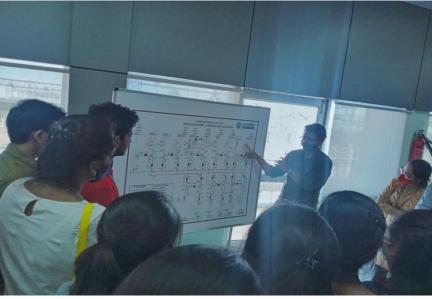
## > CONCLUSION:

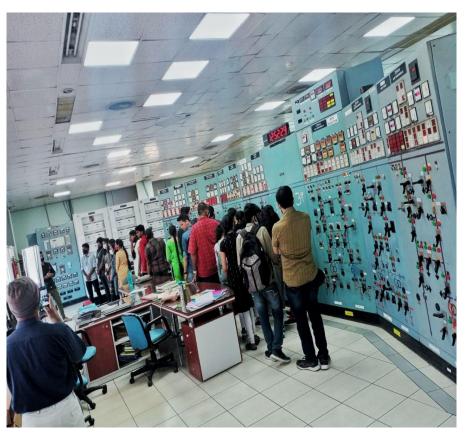
Now from this report we can conclude that electricity plays an important role in our life. We are made aware of how the transmission the transmission of electricity is done. We too came to know about the various parts of the substation system. We are very grateful to 400 kV Ghatkesar Substation for giving permission for this visit. Students got an opportunity to know regarding practical aspects about what they are learning in theory. We hope that such kind of events will be given by Samskruti Foundation in future also. It was an informative, interesting and a successful visit.

IRG (in rupees) Deposited A/C no A/C	NA
name and date and other details	
Expenditure (in rupees) (Enclose proof-bills)	NIL
<b>POs attained with this</b> <b>Event</b> (number and description)	<ol> <li>Broad education necessary to understand latest trends and development in electrical machines.</li> <li>Recognition of the need for, and an ability to engage in life-long learning.</li> </ol>
<b>Photographs of the</b> <b>event</b> (Hard copy and soft copy)	











G. Gordlykeni

Signature of Coordinator

B. Phoneendra Babu Signature of HOD