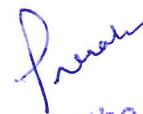




**JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, JAIPUR**  
**DEPARTMENT ELECTRICAL ENGINEERING**

**Session 2015-16**

Name of Event	1 Day Industrial Visit to JMRC
Category:	Industrial Visit
Date & Time	9 September, 2015 & 9.00 AM to 6.00 PM
Venue	Jaipur Metro Mansarovar and GSS Mansarovar Jaipur, Rajasthan
Target Audience	B.Tech students of III and Vth Semester
Student Coordinators	Mr. Surendra Legha
Coordinators	Local Coordinator : Mr. Ram Singh & Mr. Gopal Tiwari , Assistant Professor Electrical Engineering, JECRC Jaipur 9887712330, 8890750291, 0141-2770232, 2770120 (O) ramsingh.ee@jecrc.ac.in , gopaltiwari.ee@jecrc.ac.in
PO and PSO	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 and PSO1
Organizer	Students of Vth semester and III Semester 2015

  
**Head of the Department**  
**Electrical Engineering**  
**JECRC Jaipur**

Description	<ul style="list-style-type: none"> <li>➤ Traction transformer converts 132kv to 25kv. This 25kv is sent to TSS(transmission substation).</li> <li>➤ Then it is fed to occ(operating control cell) from where the trains are control.</li> <li>➤ This 25kv is used to run the METRO.</li> <li>➤ Auxiliary transformer converts 132kv to 33kv .</li> <li>➤ From auxiliary transformer, electricity is fed to ring main.</li> <li>➤ This 33kv is then converted into 415v through the local transformers and supplied to the required load in the control building itself.</li> </ul> <p>➤ Generally two type of insulator substations are used      1.Gas insulated substation (GIS)-25kv</p> <p style="padding-left: 40px;">2.Air insulated substation (AIS)-25kv,132kv</p> <ul style="list-style-type: none"> <li>➤ SF6 gas is used in GIS.</li> <li>➤ Vacuum insulated substation are also used at very high voltage.</li> <li>➤ CT &amp; PT are dry type to avoid hazards like fire etc.</li> <li>➤ Cables used for transmission have low halogen content to avoid fire hazards.</li> <li>➤ At mansarovar both GIS and AIS type are present while at chandpole only GIS is present.</li> <li>➤ Near the civil-lines station there is the junction of two ring main circuits. One is coming from mansarovar other is from chandpole so that's why the circuit is made grounded to avoid sparking. So here for a short while the train runs due to its own momentum.</li> </ul>
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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, JAIPUR  
DEPARTMENT ELECTRICAL ENGINEERING

COMPOSE

Fwd: JMRC VISIT

Inbox x

Inbox (170)

Starred

Important

Sent Mail

Drafts (13)

Follow up

Misc

Priority

More



prem legha

3:25 PM (23 minutes ago)

to me

----- Forwarded message -----

From: CHAIN SUKH JEENGAR <[csj.jmrc@gmail.com](mailto:csj.jmrc@gmail.com)>

Date: Wednesday, September 9, 2015

Subject: JMRC VISIT

To: prem legha <[legha.prem@gmail.com](mailto:legha.prem@gmail.com)>

We have state of the art Electrical Engineering technology on Jaipur Metro, where number of electrical assets are imported from worldwide.

If a group of electrical engineering student wants to visit Jaipur Metro, you have to come on your transport between 10:00 to 13:00 hours at Mansarovar Metro Rail Depot at Bhrigu Path. Contact DGM/Traction and EM, Shri Sarkar - 7728895411 as Nodal Officer. You have to purchase Smart Card of Rs. 100 per person, which has security amount Rs. 50 and add value of Rs. 50 for travel in Jaipur Metro without ID proof. If required, it will be shown 132/25 KV AC Traction Sub Station, Electrical Traction Network, Supervisory Control and Data Acquisition System, Auxiliary Sub Stations with ring main feeder, Lift & Escalators etc. by the Nodal Officer and his team. In addition, electrical assets on Metro Trains may be shown in the depot. While travelling from Mansarovar Chandpole and back by Smart Card, with 10% discount on travel, you will be charged 27 from your Smart Card. The Smart Card is your personal property, which can be recharged also and maybe utilized for travelling in Jaipur Metro afterward. Minimum group of 50 is required. There may be more number of groups from IInd year to IVth year students in batches of 40 to 60, and visits may be on any day from Monday to Saturday.

C.S.Jeengar

Director (Operation & System) JMRC

Mob-9001156661

On Wed, Sep 9, 2015 at 9:59 AM, prem legha <[legha.prem@gmail.com](mailto:legha.prem@gmail.com)> wrote:

Search people...

Shikha Maheshwar...

Principal JECRC

Sandeep Sharma

Senthil Lakshmanan

Sushma Soni

Arpit Agrawal

HoD CS

HoD ECE

Principal JECRC

Ram Singh





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**DEPARTMENT ELECTRICAL ENGINEERING**



***INTERACTIVE DISCUSSION***







**JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, JAIPUR**  
**DEPARTMENT ELECTRICAL ENGINEERING**



*Praveen*  
Head of the Department  
Electrical Engineering  
JECRC Jaipur