Name: Muvva Srija
Entry no: 2020EE30605
Project Mentor: Dileep Nigam, HOD Rectifier
Internship Supervisor: Prof. Mustafijur Rahman
Internship: Vedanta Limited
Location: Jharsuguda, Odisha

Date	Work
15-06-2023	• Reached Township, Accommodation • Discussed Rules to be followed
16-06-2023	• Formalities • Documents checking, Vedanta profile creation • Induction program
17-06-2023	• Total plant tour(overview) (smelters, powerplant, casthouse...) • Rules to be followed at plant
18-06-2023	• ID card, safety kit issued • Safety precautions class • Emergency safety precautions
19-06-2023	• Fire safety class • Carbon plant visit
22-05-2023	• Potline visit (details of every machine) • Cast house visit
23-05-2023	• carbon plant – GAP (green anode plant visit, details of anode making, physical and chemical quality check) • Bake Oven, rodding visit
24-05-2023	• Mentor, project, dept, allotted • Project – 6th ICT (3x250 MVA) Transformer erection and commissioning • Meeting with HOD rectifier, HOD pscs
25-05-2023	• Mind map of the process going here (power plant to potline to casting) • Understanding components installed at switchyard • Reading books of each components understanding their functioning
26-05-2023	• Site visit 400kV switch yard • Plant 1 rectifier unit visit • Reading books of each components understanding their functioning
27-05-2023	• Site visit 220kV switchyard • Studying Power system protection • What needs to be included in Project report overview from mentor
29-05-2023	• Transformer construction for industrial uses • 6^{th} ICT installation (project) reliability • Pre commissioning & post commissioning Tests performed on previous ICTs
30-05-2023	• Pre commissioning & post commissioning Tests performed on previous ICTs • Transformer protection methods • Protection systems using relays
31-05-2023	• How tests are done • Why these tests are done • Studied about Transformer parts

01-06-2023	• Project Site visit • GIB foundation • Why GIB (gas insulated busbar) • What is GIS (gas insulated substation)
02-06-2023	• Discussed contents need to be covered in Report • Report Making • Site visit (BUS B to BUS A changed)
05-06-2023	• Report making • Studying manuals provided by company • Environment Day programs
06-06-2023	• Site visit- protection systems for equipment • Overview of civil work at 6th ICT project • Report making
07-06-2023	• Plant 1(CPP) visit • Overview of their process • Report making
08-06-2023	• Rectifier units visit • Report making • Studies working of each component
09-06-2023	• Power plant (IPP) site visit • Operations, simulations data collected • Report making
10-06-2023	• Powerplant to 400kV switchyard – station transformer, generator transformer etc. visited • SLDs collected • Report making
12-06-2023	• Substations visit • Report making • Referring Test reports
13-06-2023	• 6th ICT project site visit • Report making • Previous ICT test reports collected
14-06-2023	• DC-DC interconnection site visit • Reliability of this DC-DC interconnection project • Collected data on how they managed breakdowns before
15-06-2023	• Study of Transformer protection system • Project Site visit • Report making
16-06-2023	• Project site visit • SCADA software Understanding
17-06-2023	• Gone through the previous ICT test Reports • Commissioning Test of ICT

19-06-2023	• Study of fire controlling systems • Report making
20-06-2023	• Study of Transformer protection system (working of each part) • Working of Alarms and trip elements
22-06-2023	• Understanding of SCADA operating modes • Overview of control panels
23-06-2023	• DGA test, BDV test • Study of Relays
24-06-2023	• Dry air pressure fallen -Why, How • Study of Research paper regarding the same
26-06-2023	• Overview of Automation of all substations • Requirements of this project
27-06-2023	• Studied operating modes of SCADA • Relay study from computer from control room