Name: Muvva Srija

Entry no: 2020EE30605

Internship Supervisor: Prof. Mustafijur Rahman

Internship: Vedanta Limited

Location: Jharsuguda, Odisha

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| 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 * 6th 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 |