

Maintenance Activities in Year 2021

Planned Outage in year 2021 was Yearly Inspection type but during planned outage in year 2020 one of the Intermediate Pressure Steam Turbine Blade stage 21 was damaged but the Steam Turbine still could be operated normally. The Power Plant discussed with OEM (Original Equipment Manufacturer) and got the advice to replace all blades in stage 21 as a precaution measure. Therefore, we have decided to replace all of Steam Turbine Blades in stage 21 at the expense of EGAT. The duration of work was 30 days. The important maintenance activities are as follows;

| Item | Activity | Objective |
|------|--|--|
| 1 | Replace IP Steam Turbine Blade Stage 21 | OEM recommendation |
| 2 | Inspect Compressor, Combustion, Gas Turbine by Bore Scope Inspection | To inspect malfunctions of Compressor and Gas Turbine |
| 3 | Field Balance GT11 | To solve the problem of vibration at bearing no.1 |
| 4 | Overhaul CTG (Combustion Turbine Generator) Power Transformer | Time based maintenance |
| 5 | HRSG (Heat Recovery Steam Generator) Life Assessment | To assess the maintenance activities of HRSG in Major Overhaul in year 2024 |
| 6 | Inspect Condenser Tube by Eddy Current) 100% | To inspect leakage of tube in Condenser and assess maintenance activities in Major Overhaul in year 2024 |

Maintenance Activities in Year 2022

The planned outage of year 2022 was schedule as 21st August to 2nd September 2022. And the duration of this planned outage is more than the normal duration of Yearly Inspection because of additional work, but the total duration of this planned outage is not exceeding the Planned Outage Hours specified in the contract and does not affect the annual Contracted Available Hour (CAH).

The additional work of this planned outage is Excite Transformer Gasket Replacement that take 10 days to execute. And the summary of important maintenance works will be done in this year as follows;

| Item | Activity | Objective |
|------|--|-------------------------|
| 1 | Excite Transformer Gasket Replacement | Time based maintenance |
| 2 | Insulating Flange CW Replacement | Deteriorated equipment |
| 3 | Hydrostatic Test | Legal inspection |
| 4 | Replace tube of High-Pressure Evaporator in HRSG | Deteriorated equipment. |