

Costa Rica hydroelectrical power plant project has been carried out to TOSHIBA of Brazil, during 2000 to 2001. This small Hydroelectrical Central is composed with Generator Unit of 7,5 MV and Elevatory Substation of 13,8/34,5 kV.

In this Project, ELTMAN has designed the follow activities:

· Control and Protection Project to Generator Unit and Substation of 34,5 kV, including activities that are listed below:

- Workstatement;
- Control Points List;
- Unifiliars, Trifiliars, Functionals and Logicals diagrams;
- PLCs Configurations;
- PLCs Programming;
- MHIs Levels 1,2,3 configuration;
- Man/Machine Interface programming;
- Adjustment and configuration for protections;
- Control screen of Levels 1, 2 and 3;
- Interconnection diagrams and cable lists;
- Acceptance tests in Plant and Commissioning tests for entire Protection and Control system;

· Electromechanical installation project of Power House and Substation, including:

- Power House layout and Elevatory Substation;
- Electrical Equipments Fittings;
- Soil loop;
- Electric conductors project;
- Illumination project;
- Power cables dimensioning;
- Batteries and loaders dimensioning;
- Auxiliary services dimensioning.