

Project Title : Designing of Steam line connected to 12 MW Turbine

Resulted in : Cost Effectiveness & Smooth Operation

Engineering Designed By -

Steam-Therm Consultancy,  
Dombivli (East), Dist : Thane  
Country : India

## Scope of Work.

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1. To study the troubleshooting happening at Turbine Inlet and to provide optimum solution to customer

### Issue

- It was 8" steam pipe inlet line to 12MW steam turbine and client was facing issue of steam pressure drop of 4 bar near turbine inlet. Due to 4 bar steam pressure drop client was wasting huge money on fuel (Bagasse) for boiler.
- Client insisted to change the line size of turbine from 8" to 10" to solve the pressure drop option. This was very costly solution.

## Solution Provided by STC

- Our team studied the complete piping network, collected all Pressure Vs Temperature Vs Load data for turbine.
- Without changing complete pipe sizing we have suggested minor routing change like we have avoided few numbers of elbow.
- We removed Moisture separator for steam inlet (Because for 88 bar 515 degree C moisture separator can be avoided if we provide proper draining and trap arrangement).
- Here we provided very cost-effective solution with minimum fabrication change which saves clients capital cost in material purchase and client also saved money by minimizing pressure drop.