

Description: **Drive turbine rotor of Synthesis gas Compressor**

Client Name: B.V.F.C.L. Namrup

Tag No. of Machine: 1.41 CR-1

Machine Sl. No.: 5234

Machine type: T1/180

Power: 11600 kW

Service: Steam turbine

Rotor make: M/s Franco Tosi S.p.A., Italy

Rotor Drawing No.: 1701/1

Total length of the rotor: 2149 mm

Journal Bearing span: 1670 mm

Location of shaft vibration probe: At 90°

Maximum dia. of rotor: 415 mm

Front/Rear Journal dia.: 114.19 mm

Type of Journal Bearing: Tilting pad (Kingsbury)

Net weight of the rotor: 500 kg

Type of coupling: dry coupling

Normal speed: 14600 rpm

Maximum speed: 15300 rpm

1<sup>st</sup> critical speed: 2500-5000 rpm

2<sup>nd</sup> critical speed: 5000-11500 rpm