



Stock # TG55

16,000 kw Back pressure steam turbine generator set consists of following

STEAM TURBINE:

Manufacturer: NG Brazil
Model HB-510E
Rating: 16,000 KW (straight back pressure)
Inlet steam: 650 psig/750 °F
Extraction steam 250 psig (presently not used)
Exhaust steam 20 PSIG
Max. inlet flow 320,000 lbs/hr , steam rate: 20.0 lbs/kwh
Speed: 8,800 rpm
Serial no 4.1.3942
Rotation CCW

GEAR REDUCER

Manufacturer NG Brazil
Model no
Inlet speed: 8800 rpm
Outlet speed 1800 rpm

GENERATOR:

Manufacturer: GE Motors Brazil
Model 27R631, TEWAC , type ATB
Frame 89005
Rated Power: 20,000 kva, 16,000 kw
Voltage: 4160 V, 3 phase, 60 hz
PF 0.8
Speed: 1800 rpm
Exciter Brushless

History Built 2007, shutdown 2023

SCOPE OF SUPPLY

Steam Turbine, Gear reducer, lube oil tank, lube oil pump, piping mounted on skid
Bottom exhaust steam Turbine
Inlet steam valve (2 pcs)
Exhaust expansion joint
Generator with brushless exciter
Generator terminal box with surge arrester and capacitor
Air to water cooler
Cooling water inlet and outlet isolation valve
Lube oil cooler
Lube oil purifier.
Turbine control panel with Bently Nevada Vibration monitor 3500, Woodward 505 governor.
Basler DECS-200 voltage regulator, Woodward 505 governor
Generator Control and Synchronization panel

NSV Energy LLC
35 Hickory Springs Industrial Drive
Canton GA 30115



MCC
Battery and Battery charger 125 VDC

Generator breaker with cts and pts can be supplied if needed additional cost.

