

	DATA TO TURBINE DESIGN	Sheet 1 of 1
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PROJECT : Installation of GTC at Gandhar
SERVICE : Natural Gas Compressor
CUSTOMER : GAIL
CONSULTANT : EIL
No. of Units : 1

Condition	CASE2B #	CASE2A	CASE2C	CASE2D	CASE1A
Total Compr Power (kW)	8199	7540	6705	7333	5783
Compr Speed (RPM)	11142	10612	9993	10511	9797

Condition	CASE1B	CASE1C	CASE1D
Total Compr Power (kW)	6114	5211	5518
Compr Speed (RPM)	10122	9307	9624

Rated Speed: 11142 rpm **M C S:** 11700 rpm **Trip Speed:** 12285 rpm

- Guarantee Case
Direction of rotation of compressor (Looking from driven end of Compressor/coupling end): CW
Speed Range % : 70 - 105 of 11142 rpm

Lube Oil System:
 Lube Oil Requirements for Compressor :
 Flow 275 lpm
 Heat Losses 105 kW
 Oil grade ISO VG 32 / ISO VG 46
 Pressure required at lube oil header mounted on compressor base plate 2.5 kg/cm2g
Request to include above oil quantities in GT lube oil system design

Notes:

Lube Oil requirement for gear box is 300 lpm & Heat losses are 180 kW. Oil grade and pressure required are same as above.
Request to include above oil quantities in GT lube oil system design

Any special design requirements: Please refer enquiry specifications

Rev
1