NAME: PUSHKEN DUGAM

ROLL HO: B22MED52

$$T = 60 (Power) = 60 \times 50,000 = 477.464829$$

2TX 1000

Tarque 2 477.5

Torque desyn =
$$477.5 \times 2 = 955$$
 N·m (S.f.)

Shoft Riander (shear stress)

$$C = \frac{T}{\sqrt{32}} \left(d_n^4 - d^4 \right)$$

$$T = \frac{955 \times d}{\pi \left(16d^{4}-d^{4}\right)}$$

$$C = \underbrace{955 \times 32}_{15 \times 11 \times d^3}$$

pur
$$dn = 2d$$

$$d = \left(\frac{955 \times 32}{15 \times \pi \times 200}\right)^{3}$$

F05 = 2

Oyd= 400 NmmL

E= 0.5.5yr

$$\frac{200}{2} = \frac{955 \times .9/2}{1000} \times 1000$$

$$43 = 955 \times 32 \times 1000$$

$$2 \times \pi \times 1000$$

$$t = 10.48 \text{ mm}$$
 $t_1 = 0.825 \text{ mm}$
 $t_2 = 0.9125 \text{ mm}$
 $t_3 = 0.9125 \text{ mm}$
 $t_4 = 0.9125 \text{ mm}$
 $t_5 = 0.9125 \text{ mm}$

$$T_{c} = \frac{h77.5 \times h \times 12103}{9 \times 17 \times (36.5)3} = 1.389 \text{ Wmm²}$$

$$T = \frac{2T}{bla} = \frac{955 \times 1000}{9 \times 54 \times 36.5} = 53.83 \text{ M/mm2}$$

$$\sigma_{L} = hT = 2 \times 955 \times 1000 = 161.5 \text{ Mmm}^{2}$$
 $36.5 \times 54 \times 6$