**Values Obtained from CFD:**Force = 12577.7535 N

Mass flow = 15.655 kg/s

Wu2=101.142 m/s

Wa2=263.483 m/s

Wu3=-757.7311 m/s

Wa3=286.279 m/s

**Calculated Values (Matlab)**

Alfa3p=20.7976°

Force = 490.5324 N

Mass flow =45.7231 kg/s

Torque = 1.2989E+04 N-m

Power Euler = 3.8155E+04 Hp

Power Torque = 3.8306E+04 Hp

Euler/Torque = 0.9961

**Appendix:**

**A colorful drawing of a flow

AI-generated content may be incorrect.A blue and white logo

AI-generated content may be incorrect.A graph of a graph

AI-generated content may be incorrect.A colorful diagram of a heat wave

AI-generated content may be incorrect.**

**A black and white image of a pipe

AI-generated content may be incorrect.**