

## Frequently Asked Questions : Mines

**Question :** *“Are your pumps as Efficient as Conventional pumps...?”*

**Answer :**

The Pump **Efficiency** of Submerged pumps is nearly **similar** (*for the same duty conditions, with same speed & number of stages*) to Conventional pumps

○ **But, Conventional Bare Shaft pumps mandatorily require :**

**1. Suction Manifold Auxiliaries** like

- a. Foot Valve,
- b. Sluice Valve,
- c. Bell Mouth,
- d. Reducer,
- e. Suction Pipe, etc

all of which will have their Inherent **Unavoidable Friction Head (m) Losses** (*& hence will make the pump do more (unnecessary) work (& subsequently waste Energy too)*).

**2. Couplings** (*between Motor & Pump*) which will incur **Un-Avoidable Mechanical Power (kW) Losses** (*upto 1 % to 2%*)

As the above Ancillaries & Auxillaries are not required in Submerged pumpsets, hence they will have **Slightly Lower Power Consumption** (*despite nearly similar efficiencies*)

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Typically a Submerged pump may consume approx **1.5% to 3.5% Less Energy** (*than Conventional pumpset*)