

APPLICATION CASE STUDY



DOC.NO. : AMTCS-1

CONDUCTED AT M/s. TATA ENGINEERING & LOCOMOTIVE LTD., JAMSHEDPUR.

APPLICATION : **CENTRIFUGAL PUMP**

PRESENT METHOD OF CONTROL : **THROTTLING VALVE.**

POWER CONSUMPTION BY PRESENT METHOD OF THROTTLING.

CONSUMPTION	THROTTLING VALVE OPENING
24.2 KW / HR.	55%

ACTUAL POWER CONSUMPTION USING AC VARIABLE SPEED DRIVE & THROTTLING VALVE FULLY OPEN:

CONSUMPTION	THROTTLING VALVE OPENING
4.6 KW / HR.	100%

* **NET POWER SAVING** : 24.2 KW - 4.6 KW = 19.6 KW/HR.

* **MOTOR RUNNING TIME** : 16 HRS / DAY

* **UNIT SAVING PER DAY** : 313 KWH

* **UNIT SAVING PER MONTH** : 9408 KWH

* **TARRIF AT THE RATE** : US \$ 8095.2

* **ENERGY SAVING PER MONTH** : US \$ 761.6

40 HP DRIVE SUGGESTED FOR THE ABOVE LOAD

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