Summary of study- Air compressor in a textile industry: Unit 9

Industry: Textiles

Unit profile : A textile unit located in Mumbai (Maharashtra)

engaged in manufacture of cotton yarn, knitted

fabrics and trims

Technology:

• Installation of energy efficient air compressor

• Improvement of operating practices

Application: Energy savings in compressed air system

Year of investigation: 2018

Key features:

Replacement of reciprocating air compressor with energy efficient inverter type compressor

• Optimisation of compressed air piping system

• Reduction of compressed air leakages

Improving inlet air conditions of air compressors

• Installation of measurement diagnostic tool

Energy and cost saving:

Details	Existing	Recommended
Compressed air system	Screw compressor +	Screw compressor +
	Reciprocating compressor	Inverter compressor
Energy saving (%)		75,000 kWh considering 50%
		air load factor

