

## Summary of study: Air compressor in an ink manufacturing unit: Unit - 1

**Industry** : Ink manufacturing

**Unit profile** : An ink manufacturing unit located in Noida (Uttar Pradesh) engaged in the production of printing ink

**Technology** :

- Inverter type screw compressor
- Use of single compressor
- Operating practices improvements

**Application** : Energy savings in compressed air system

**Year of investigation** : 2013

**Key features:**

- Replacing existing compressor with inverter type screw air compressor
- Effective use of single compressor at high loads
- Reduction of discharge pressure
- Booster compressor to meet high pressure requirements
- Reduction of leakages
- Improved indoor ventilation in compressor room
- Air quality improvement with higher size air dryer (Adsorption type heatless dryer)

**Energy and cost saving:**

Details	Existing	Recommended
Compressed air system	Rotary screw air compressor: 75 kW (2 units)	Inverter type compressor (1 unit)
Power savings (%)		15

**Note:**

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Adoption of energy efficient technologies and practices can generate greater benefits in compressed air applications in industries.

