



FABEX
ENGINEERING
PARTNERS FOR EFFICIENT PROCESSES



MONOMER SEPARATION FROM OIL BLEND

INK AND PIGMENTS

THE PROBLEM

In existing batch process, monomers were separated from oil blend. The reduction in monomer concentration in final product required to be reduce from 18% to minimum. The existing process limited to the 8% final concentration in product.

SOLUTION BY FABEX

Fabex Engineering suggested the Short Path Distillation technology by feasibility study at lab scale. The Short Path Distillation Unit (SPDU) has the internal condenser which possesses the lower pressure drop and condenses the component efficiently. The heat required for the distillation utilized efficiently with minimum losses. Pilot plant trials were conducted to fine tune the operating conditions. The final concentration of the monomer was reduced by 10 folds (0.3% in final oil blend) as compared to the existing operation.

ACHIEVEMENTS

- Increased efficiency by 20 folds
- 1 pot process
- Reduce operating cost and time
- Save energy consumption
- Increasing production rate
- Less handling & losses

**SHORT PATH
DISTILLATION UNIT
(SPDU)**