



प्रोजेक्ट्स एण्ड डेवलपमेंट इण्डिया लिमिटेड
(भारत सरकार का उपक्रम)

PROJECTS & DEVELOPMENT INDIA LIMITED

(A GOVT. OF INDIA UNDERTAKING)
PDIL BHAVAN, A-14, SECTOR-1, NOIDA-201301
DISTT. GAUTAM BUDH NAGAR(U.P.) INDIA

PN/GMN/Indo-Gulf

Dated: 24th November 2006

TO WHOM SO EVER IT MAY CONCERN

M/s. Indo Gulf Corporation Ltd., Jagdishpur had identified MP decomposition section of urea plant as a potential area for implementing energy saving measure by utilizing effectively the low grade heat from off-gases which was otherwise being dumped in cooling water.

Conventionally, off-gases from medium pressure decomposers at about 140oC are condensed in a water cooled condenser and recycled back to process as carbamate. It was found that heat content in off-gases from medium pressure decomposers were adequate to concentrate urea solution from 70% to 85%, and thus reduce the heat requirement in the first stage vacuum concentrator.

The novel concept of recovering heat from off-gases from MP de-composer was developed by Snamprogetti which envisaged installation of a pre-vacuum concentrator in urea plant, where off gas heat was utilized to concentrate urea solution from 70% to 85%. Net result of the above was reduction in low pressure steam consumption in the downstream section (first stage concentrator) and thereby achieve saving in energy consumption. Based on the novel process scheme of M/s. Snamprogetti, PDIL carried out the detail engineering and implemented this retrofitting measure in existing Urea plant with help of Owner, M/s. Indo Gulf Corporation.

Indo-Gulf was first of the few units which implemented this novel technology of vacuum preconcentration as part of energy saving measures in their urea plant. The vacuum pre-concentrator was successfully installed and commissioned at Indo Gulf and is giving the desired results.

Certified on behalf of M/s. PDIL.

(A. K. Pal)
General Manager-in-Charge



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