



**“Basic Engineering Design Package (BEDP) for DCPD Plant
with associated infrastructure - pre-qualification process” –
INSTRUCTON TO BIDDER**

Appendix 3

Process Description

Process Overview

In general, the DCPD plant produces dicyclopentadiene by the rectification of light pyrolysis gasoline.

The DCPD unit consists of the following main sections:

Reaction Section (Dimerization)

Light pyrolysis gasoline contains DCPD and cyclopentadiene (CPD). The dimerization process converts CPD into DCPD to increase its concentration in the stream directed to the separation section.

Separation Section

Comprising four vacuum distillation columns:

- **Depentanizer** – Removes light hydrocarbons (C4, C5) and part of the aromatic fraction. Bottoms are routed to the BTX column.
- **BTX Column** – Separates hydrocarbons with boiling points lower than DCPD. Overhead fraction contains aromatics; bottoms proceed to the DCPD column.
- **DCPD Column** – Concentrates DCPD by separating it from heavier hydrocarbons. Bottoms rich in MeDCPD are recycled.
- **Purification Column** – Removes organic impurities and by-products. DCPD product is withdrawn via a side draw; distillate and bottoms are recycled.

Storage and Dispatch

Four storage tanks are planned:

- 3 storage tanks, each 500 m³
- 1 storage tank 1000 m³

(capacities to be confirmed by BEDP Contractor).

Liquid DCPD will be pumped to storage tanks and dispatched to customers via tank trucks.