

# HPDUCER-NHT

## Solution for increased pressure drop in hydroprocessing units

### Area of application

- NHTs are fixed bed-Gas phase hydrotreaters for Naphtha

### Issue

- Catalyst beds are highly prone to plugging issues. The plugging can be due to contaminants such as corrosive products etc.

### Effects

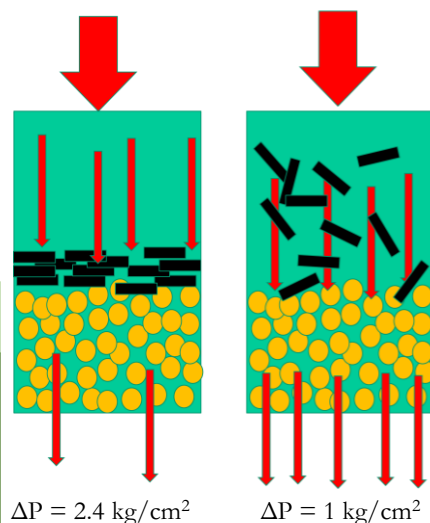
- Plugging leads to increase in pressure drop across the reactors which results in reduced feed throughput and loss of GRM

### Available Solutions

- Shutdown and offline reactor cleaning (Skimming)
  - Skimming process is costly process in terms of unplanned shut down of unit and catalyst replacement
- Online reactor cleaning without shutdown
  - Most of the refineries follow the online reactor cleaning with dispersant chemical. Only very few global players offer the dispersant chemicals.



Feed      Feed + HPDUCER



### HPDUCER by HPCL

- ✓ HPCL R&D has developed novel dispersant chemical "HPDUCER" for pressure drop reduction
- ✓ Solution is available for online reactor cleaning system by dosage of Dispersant Chemicals
- ✓ Dispersant Chemicals can control the pressure drop with limited period of dosage
- ✓ Successfully demonstrated for Naphtha Hydrotreating Unit

Indigenous;  
Made in India

Cost effective  
as compared  
to imported  
dispersants

Longevity and  
effectiveness  
of HPDUCER:  
Effective with  
less chemical  
consumption

Increases the  
Service Factor  
of Unit:  
Increases Feed  
Throughput

Proven for Gas  
phase, Liquid  
Phase and  
Trickle bed  
reactors