

HPD & HPA Decolorization: Carbonatation Sugar Refinery

 HPD (High Performance Decolorant) and HPA (High Performance Adsorbent) are patented products engineered and designed for superior decolorization as an alternative of IER and GAC in carbonatation sugar refinery.

Functionality:

- HPD enhance the carbonatation impurity removal by 30-40%.
- HPA improves liquor's quality, filterability and impurities removal by 70-80%.
- Removes beverage floc.
- Energy savings.
- No liquid effluent discharges.
- Low centrifugal washing water consumption.
- Low pol in mud.
- Operates at higher brix.
- Increases over-all factory yield.

Process Diagram:

Feasibility study:

Carbonatation Refinery, 1500 MTD

-			
HPD (ppm)	HPA (ppm)	Fine Liquor (IU)	%Color Removal
Carbonated Liquor Color: 753 IU			
200-250	500-750	188	75 %
200-250	750-1000	136	82 %
200-250	1000-1500	90	88 %

Application:

1st Step: HPD added to the carbonated liquor.

2nd Step: HPA added to the clear liquor.





