Design And Analysis Of Pressure Disc Type Filter

**Abstract—**

Presently used Filters for Beverages making industries are very bulky in shape and gives low outlet discharge. Hence they are less efficient .Therefore there is a need to design compact, automated unit that produces completely clear liquor and which have large outlet discharge. This concept highlights the design of new filter which fulfill the requirements of beverages making industries for filteration.For making filteration more feasible, unit is to be design in which multiple disc comprising of blades is to be mounted on a shaft for filteration. Multiple discs will get patterned throughout the shaft and number of disc decides the capacity of filter. The special arrangement of Two cake discharge blades (scrapper remover) suspended from a frame mounted on the tank and serve to deflect and guide the cake to the discharge tube. On large diameter filters, the blades are of the swing type that float to maintain the cake to disc clearance and so allow for the wobble of the turning discs.

Keywords - Outlet Discharge, Filter, Filtration ,Scrapper Remover, Multiple Disc, Discharge tube.