ABSTRACT

Screw Conveyor is a kind of material handling equipment without flexible pulling member and use thread principle in course of its job. Inclination of screw conveyor is needed at condition of limited equipments and location. Determination of inclination of screw conveyor, dimension of screw conveyor and bulk material characteristic pour to be moved to have role to get required by material capacities that is needed.

In this final project is discussing to determination of coefficient of angle screw conveyor, determination of bulk material pour to be moved according to its flowability characteristic, determination of lead screw, determination of maximum angle screw conveyor, and calculation of capacities for incline screw conveyor.

Using triple Screw in incline screw conveyor heel its performance better than using double screw and single screw, with consideration of capacities of material evacuation, in material evacuation, and maximum angle of screw conveyor.

Keyword: inclination of screw conveyor, dimension of screw conveyor, bulk material characteristic, capacities, angle of screw conveyor and coefficient of angle screw conveyor.