

Entrepreneur India

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Benzoyl Peroxide

Capacity:	500 kgs/Day
Plant and machinery cost:	24.00 Lakh
Working Capital:	61.00 Lakh
Rate of return(ROR):	38.95 %
Break Even Point (BEP):	54.38 %
TCI:	120.00 Lakh
Cost of Project:	120.00 Lakh

It is white, granular, crystalline solid. It is tasteless and has faint odour of benzaldehyde. It is manufactured by using benzoyl chloride and hydrogen peroxide as basic raw material. Benzoyl peroxide is a toxic chemical. It is used as bleaching agent for flour, fats, oils and waxes, polymerization catalyst, drying agent for unsaturated oils, pharmaceutical & cosmetic purposes, burn out agent for acetate yarns, production of cheese, embossing vinyl flooring. The basic raw materials required are benzoyl chloride, hydrogen peroxide, sodium hydroxide, chloroform & methanol. The reaction is as under:
$$2C_6H_5COCl + H_2O_2 \rightarrow (C_6H_5CO)_2O_2 + 2HCl$$

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