

Entrepreneur India

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Neutralization of Phospho-Gypsum

Capacity:	600000 MT/annum
Plant and machinery cost:	1008.00 Lakh
Working Capital:	0.00 Lakh
Rate of return(ROR):	36.89 %
Break Even Point (BEP):	43.92 %
TCI:	3114.00 Lakh
Cost of Project:	3114.00 Lakh

Phospho-gypsum is a by-product of the phosphoric acid industry and consists of 65-70 % gypsum, 25-30 % water and 5-10 % impurities, i.e. phosphoric acid and its salts, hydrofluoric acid and its compounds. There are more than few plants (those of Onoda in Japan, Giulnichemic GmbH , Knauf in Germany, etc.) where the impurities are eliminated by washing Phospho-gypsum with water or separating off coarse and very fine particles. Phosphoric acid production scenarios in India, there are 11 no. of phosphoric acid manufacturing units located in 7 States namely Andhra Pradesh, Gujarat, Kerala, Maharashtra, Orissa, Tamil Nadu and West Bengal. Earlier, the total production of phosphoric acid is about 1.2 Million Tons. Phosphogypsum generation in the Country is about 11 Million Tons per annum (based on the assumption that 5 Tons of Phospho-gypsum generated per ton of phosphoric acid production).

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