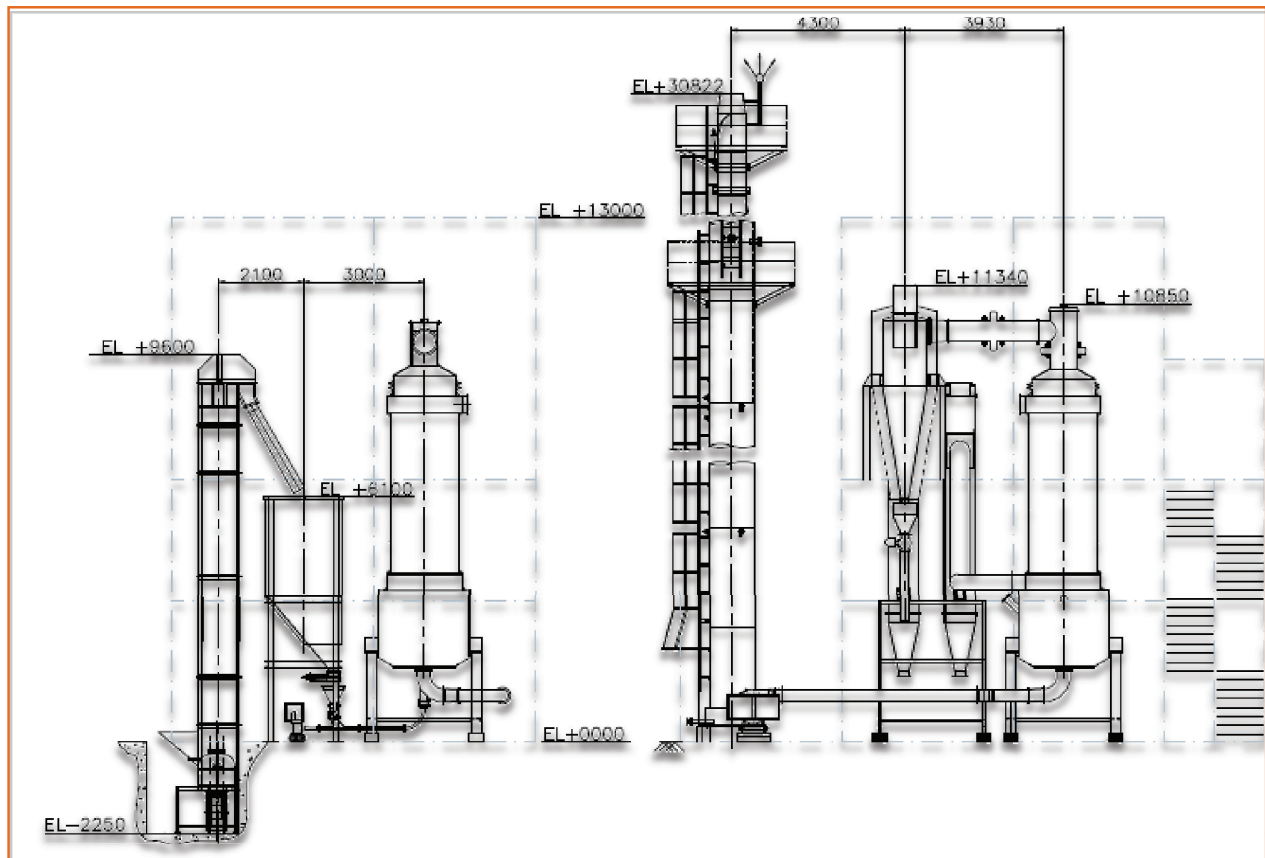


➤ CASE STUDY(750 kg/hr)



Client:		M/s SUNSHINE INDUSTRIES		
Location	Dahej, Dist Bharuch, Gujrat	Cost evaluation (COAL V/s CNG)		
Type of Industry	Bulk Drug Industries		Coal Fired HAG	Gas Fired HAG
Commissioned on	Dec-13	NCV value of fuel	5400 Kcal/Kg	8250 Kcal/Nm ³
PROCESS DATA:		Fuel price(Rs/Kg)	5.5	35
Capacity	To suit 750 kg/hr water evaporation of Spray Dryer having inlet temp of 550°C & 117°C as outlet temp.	Efficiency of HAG (%)	68	99
Inlet temp. of air to CFHAG	30°C	Fuel consumption per ton of silica (Kg / Ton)	821	369
Outlet temp. of Hot air from CFHAG	540°C	Drying cost per ton of Silica (Rs/ton)	4513	12911
Fuel using	Pulverized Indian/imported coal of size 6 to 8 mm	Cost saving due to CFHAG		
NCV of coal	4200 Kcal/kg (minimum) to 5400 Kcal/kg	Saving due to CFHAG per kg of silica produced (Rs /Kg)	8.40	
		Payback Period	10 Months	

