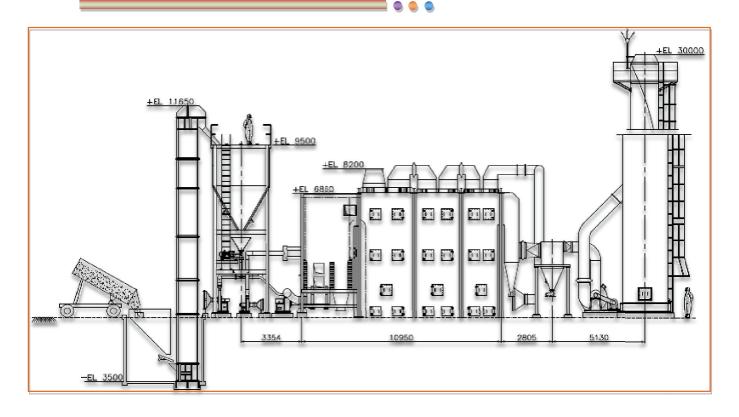


> CASE STUDY(2600 kg/hr)



Client:	M/s MADHU SILICA PVT LTD			
Location	GIDC-Chitra, Bhavnagar, Gujarat			
Type of Industry	Bulk Drug Industries			
Commissioned on	2009			
PROCESS DATA:				
Capacity	To suit 2600 kg/hr water evaporation of Flash Dryer having inlet temp of 675°C & 100°C as outlet temp.			
Inlet temp. of air to CFHAG	30°C			
Outlet temp. of Hot air from CFHAG	675°C			
Fuel using	Pulverized Indian/imported coal of size 6 to 8 mm			
NCV of coal	4200 Kcal/kg (minimum) to 5400 Kcal/kg			

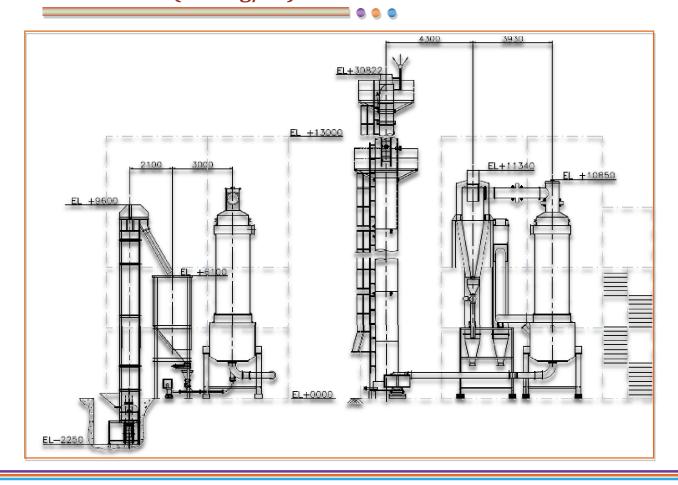
Cost evaluation (COAL V/s CNG)					
	Coal Fired HA	A G	Gas Fired HAG		
NCV value of fuel	5400 Kcal/Kg		8250 Kcal/Nm3		
Fuel price(Rs/Kg)	5.5		35		
Efficiency of HAG (%)	68		99		
Fuel consumption per ton of silica (Kg / Ton)	728		327		
Drying cost per ton of Silica (Rs/ton)	4005		11459		
Cost saving due to CFHAG					
Saving due to CFHAG per kg of silica produced (Rs /Kg)		7.45			
Payback Period		≈12 months			







> CASE STUDY(750 kg/hr)



Client:	M/s SUNSHINE INDUSTRIES		
Location	Dahej,Dist Bharuch, Gujrat		
Type of Industry	Bulk Drug Industries		
Commissioned on	Dec-13		
PROCESS DATA:			
Capacity	To suit 750 kg/hr water evaporation of Spray Dryer having inlet temp of 550°C & 117°C as outlet temp.		
Inlet temp. of air to CFHAG	30°C		
Outlet temp. of Hot air from CFHAG	540°C		
Fuel using	Pulverized Indian/imported coal of size 6 to 8 mm		
NCV of coal	4200 Kcal/kg (minimum) to 5400 Kcal/kg		

Cost evaluation (COAL V/s CNG)					
	Coal Fired HA	G	Gas Fired HAG		
NCV value of fuel	5400 Kcal/Kg		8250 Kcal/Nm3		
Fuel price(Rs/Kg)	5.5		35		
Efficiency of HAG (%)	68		99		
Fuel consumption per ton of silica (Kg / Ton)	821		369		
Drying cost per ton of Silica (Rs/ton)	4513		12911		
Cost saving due to CFHAG					
Saving due to CFHAG per kg of silica produced (Rs /Kg)		8.40			
Payback Period		10 Months			



