

Fan Data Sheet					
Client	Ghaen Cement Co .			Data Sheet No.	
Customer	Ghaen Cement Plant			Date	
Project	Pre - Heater Fan Optimizing Project			Manufacturere	
Fan Item NO.					
Fan Name	Pre - Heater ID Fan			Prepared	
Site Condition	Elevation Above Sea Level	1609 m		Site Location	Ghaen South Khorasan Province
	Design Barometric Pressure	838.8 mbar			
	Ambient Temperature (°C)	Min.		Relative Humidity	Min.
		Max.			Max.
Design Data	Capacity	586.000 m3/hr		St. Pressure	Pa at Inlet
	Gas Density	0.440 kg/m3			Pa at Outlet
	Gas Temperature	347 °C		Dyn. Pressure	Pa at Inlet
	Speed	950 rpm			Pa at Outlet
	Static Pressure Difference	mbar		Relative Humidity	
	Total Pressure Difference	62 mbar		Impeller Nom . Diameter	3130 mm SWSI
	Shaft Power	1345.6 kw		Charactristic Curve	HRC6 - 313- CC01
	Motor Rated Power	1500 kw		Fan Speed	990-950 rpm
Gas Data	Gas Name	Process Air			
	Dust Content	mg/Nm3		Type	
	Corrosives	Yes / No		
Mechanical Data	Fan Type	HRC6-313		Construction	DWDI
	Blade Type	Backward Curved			Between Bearing
		Mech. Design Temperature	420 °C		Aeeangement
Construction	Impeller Nom . Diameter	3130 mm		Wear Plates:	No On Blades
	Impeller Width mm			No On Disk
	Impeller Material	Alform700/ Weldox700			
	Shaft Diameter	440 mm		Flange Diamter	800 mm
	Shaft Length	4750 mm		Shaft Material	42CrMo4
	Casing Material			
	Bearing @ Drive End	22244 E/C3		Housing @ Drive End	HFO 244
	Bearing @ Non - Drive End	22244 E/C3		Housing @ Non - Drive End	HFO 244
	Lubricant	Oil		Lubrication Methode	Free
	Cooling Vane	Yes	Yes/No	Power Transmission Type	Flexible Coupling / PN
	Moment of Inertia (GR2)	Kg/m2			
	Total Weight (EX. Accs . & Motor) Kg		Rotor Weight	7700 Kg
Painting	Sandblast	SA 2 1/2			
	1St Layer	Alkyd Zinc Phosphate 60 Micrones DFT On Casing Inner & Imdeller			
Control	Type Of Flaw Control	Inlet Damper & Motor Speed Control			
Included Items	Impeller & Shaft Assembly	*			
	Flexible Coupling PN630	*			
	Cooling Disk (x2)	*			
	Inlet Nazzle (x2)	*			