



BIARJOMAND CEMENT CO.

Ref. No.:
7.906.UA.14.2.02.00/B
Ref. Drawing No.:
1.906.UA.14.2.01.00/C

Description: Total Air consumption
Dept. Item:

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No.		Description	TCA (m ³ /min)	RCA (m ³ /min)	Pressure (bar)	Remarks
1	611BF030 / 611FN035	TOP OF CEMENT SILO 1	0.88		7	
2	612BF030 / 612FN035	TOP OF CEMENT SILO 2	0.88		7	
3	611BF090 / 611FN095	CEMENT SILO 1 BIN	0.37	1	7	
4	612BF090 / 612FN095	CEMENT SILO 2 BIN	0.37		7	
5	641BF160 / 641FN165	PACKING PLANT 1	1.00	1	7	
6	642BF160 / 642FN165	PACKING PLANT 2	1.00	1	7	
7	222BF040 / 222FN045	ADDITIVE FEEDER DEDUSTING	0.13	1	7	
8	222BF100 / 222FN105	TOP OF ADDITIVE HOPPER	0.50		7	
9	482BF050 / 482FN055	TOP OF CLINKER HOPPER	0.22		7	
10	511BF120 / 511FN125	CEMENT MILL FEED	0.37	1	7	
11	531BF090 / 531FN095	SEPARATR DEDUSTING	1.88		7	
12	481BF010 / 481FN015	TOP OF CLINKER SILO 1	0.88		7	
13	482BF020 / 481FN025	TOP OF CLINKER SILO 2	0.88		7	
14	482BF030 / 482FN035	TOP OF BYPASS CLINKER	0.80		7	
15	482BF010 / 482FN015	CLIKER FEEDING FROM BYPASS HOPPER	0.13	1	7	
16	531BF100 / 531FN104	MILL DEDUSTING	2.33	1	7	
17	-	Bag Filter from Crusher to Cooling System	7.00		7	
18	-	Kiln Bag House	6.33	2	7	
19	-	Packing Machins	2.00		7	
20	-	Preheater+ Kiln+Cooler	10.00	1	7	
21	-	Two Way Chute	4.00		7	
SUB TOTAL			42.0	10		

TCA: Treated Compressed Air
RCA: Raw Compressed Air

Site Conditions:
Altitude : 1200 m
Max. ambient temperature : 45°C
Min. ambient temperature : -11°C

1	Treated compressed air	42.0
2	Unexpected cases correction factor	1.150
3	Simultaneous consumption correction factor	0.950
TCA Total		45.85

1	Raw compressed air consumption	10.000
2	Unexpected cases correction factor	1.100
3	Simultaneous consumption correction factor	0.900
RCA Total		9.900

1	Total compressed air consumption	55.749
2	Altitude & temperature correction factor 45°C	1.350
3	Dryer (without heater) consumption (purging Air)	1.200
Total capacity of compressor (FAD) m³/min @ 10 bar		90.3

1	Total treated compressed air	45.849
2	Pressure Correction Factor @ 8.5 bar	0.900
3	Inlet Temperature Correction Factor @ 50°C	1.280
Total capacity of dryer (m³/min @ 10 bar)		52.8