

COMPRESSED AIR LEAK AUDIT REPORT

DATE:

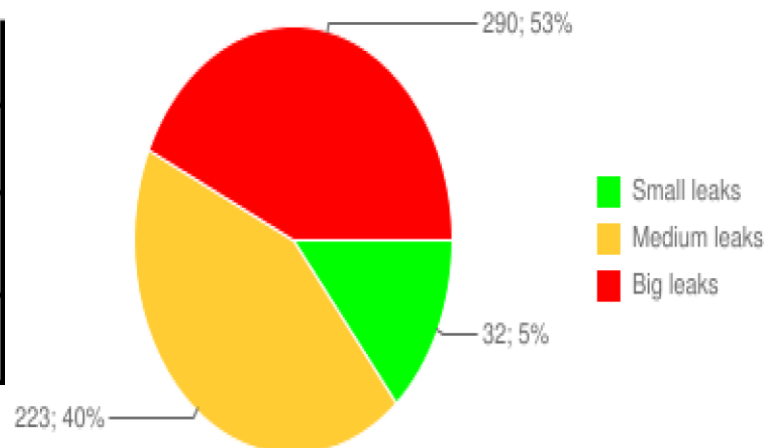
REPORT TYPE: Advanced

LEAK SURVEY COST BENEFIT REVIEW

Compressor working hours per year		5600	h
Compressed Air cost		0.019	INR/ft3
Repair labour hour cost		250	INR
Average air consumption per minute		2026	CFM
Average air consumption per hour		121560	CFH
Compressed Air System Specific Power		0.0028	kWh/ft3
Total leak flow		590.98	CFM
Defined leak cost		3,514,413.00	INR
Annual leak cost		3,773,115.00	INR
Return on investment for CALMS		1	MONTHS

Leakage Distribution

	All leaks	Big leaks	Medium leaks	Small leaks
Number of leaks	545	290	223	32
Defined leaks	512	271	211	30
Undefined leaks	33	19	12	2

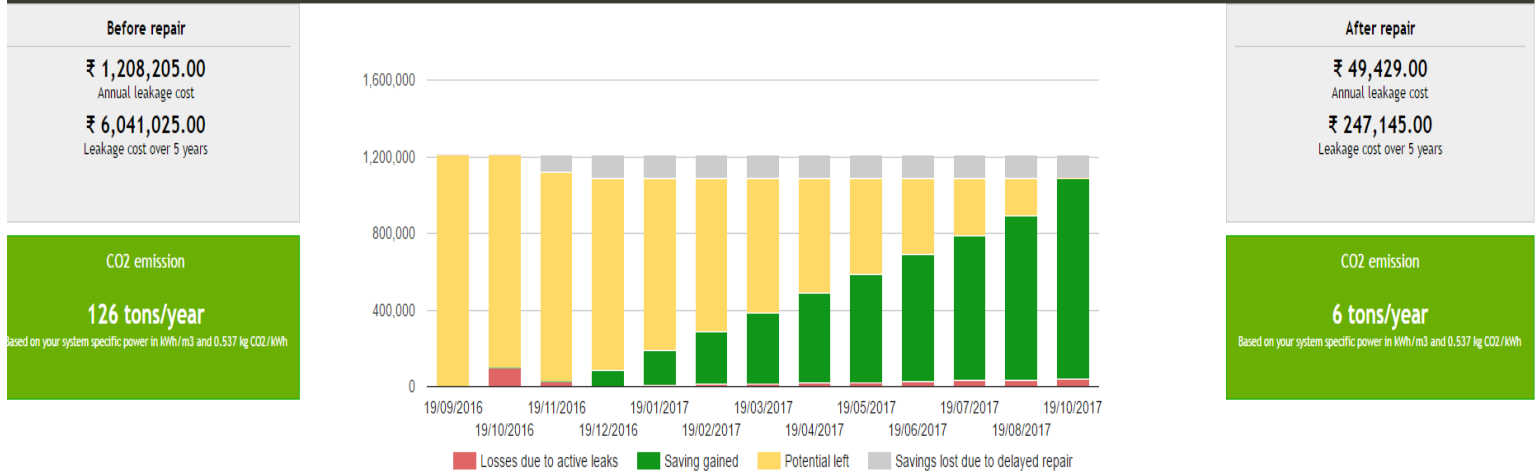


List of Leaks

Leak ID	dB	Pressure	Micro location	Leak description	Repair description	Material description	Estimated repair time	Defined	Repair material cost	Flow	Annual leak cost	
		barg					min		INR	CFM	INR	
1	37		com room dryer out	hex nipple	retighten	Thread Sealant	30	yes	100	0.80	5,118.00	
2	30		dryer in	hex nipple	retighten	Thread Sealant	30	yes	100	0.62	3,966.00	
3	37		comp room	hydraulic hose	retighten	Refix	20	yes	0	0.80	5,118.00	
207	57	6.5	line 3	PU Connector	Replace	PU Connector 1/2" x 8mm	15	yes	115	1.42	9,052.00	
5	30		comp room	filter in	retighten	Thread Sealant	30	yes	100	0.62	3,966.00	
6	37		comp room	filter out	retighten	Thread Sealant	30	yes	100	0.80	5,118.00	
7	24		comp	flange gasket	replace gasket	Gasket	30	yes	100	0.45	2,902.00	
8	34		comp room	welding leak	re weld	Welding	30	yes	150	0.74	4,726.00	
9	25		comp room	pressure gauge valve	retighten or replace valve	Siphon Cock	20	yes	300	0.45	2,902.00	
10	35		comp room	filter drain	refix or replace	Filter Drain Valve	20	yes	275	0.74	4,726.00	
							TOTAL ESTIMATED	Estimated repair time	#Defined Leaks	Repair material cost (INR)	Flow CFM	Annual leak cost (INR)
								9905 (165.1h)	512/545	196,945.00	591	3,773,115.00

Potential Saving

POTENTIAL LEAKAGE SAVINGS



Your company is saving ₹ 1,158,776.00 per year which equals 120 ton CO₂/year

Leak Photos



FLOW CONTROL VALVE



AIR BLOWING

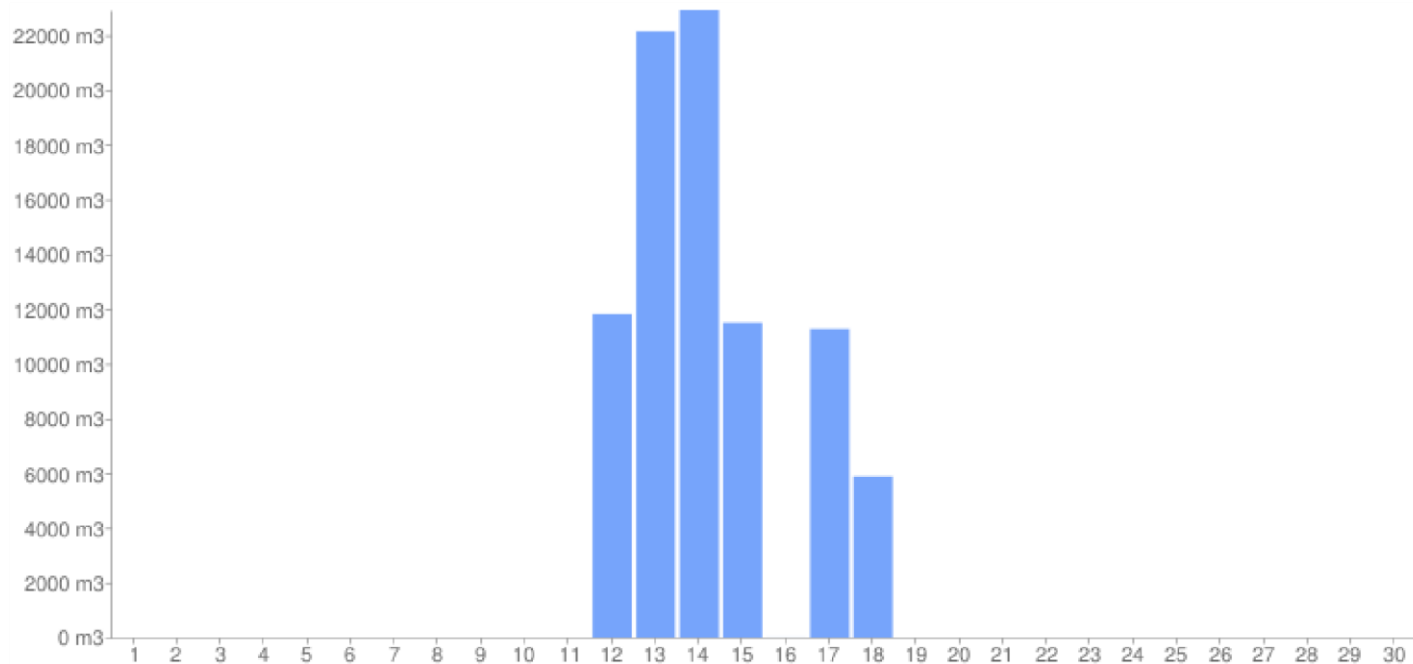


CONTROL VALVE



BALL VALVE

Compressed Air Consumption



COMPRESSED AIR LEAK ANALYSIS

Company

Location

Analysis date

Typical consumption estimation period

Custom: from 15/04/2017

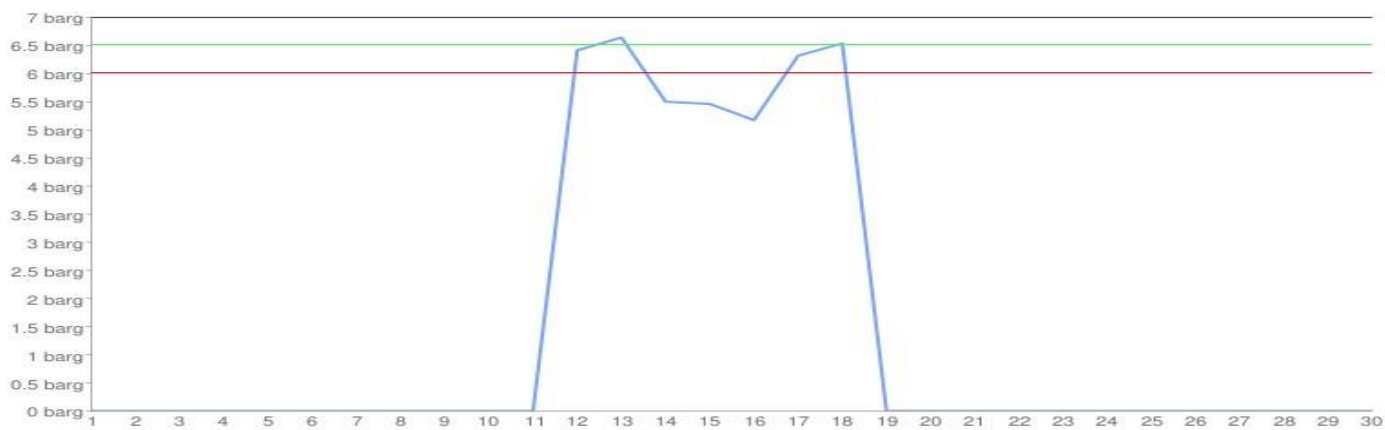
Working hours per year

8000h

Analysis description

Period	Leak Average Pressure	Leak Average Power	Leak Average Flow	Leak Electrical Energy	Leak Air Consumption	Leak Cost
	barG	kW	m³/min	kWh	m³	EUR
15/04/2017 06:00:00 - 15/04/2017 12:00:00	6.02	159.71	16.33	958.27	5879.80	6707.89
Week estimation				26831.67	164634.26	187821.69
Year estimation				1277698.42	7839726.74	8943888.94

Total average pressure



- Pressure min critical: 6.00 barg
- Pressure min (load point): 6.50 barg
- Pressure max (unload point): 7.00 barg