

Gradus Integrated Energy Solutions Pvt Ltd

110/C, Sameerana, Akshaya Nagar, BegurHobli -560068| +91 **98867 75176** | geetha@gradus.in

Client Name	Accenture, BANG 3 Complex, Bannerughatta Road, Bangalore
Location	AHU-13,Tower- A
UV System Model	UVGI System
UV System Installation Date	Thursday, November 08, 2012
Pre-Installation test date	Wednesday, October 31, 2012
Post installation test date	Wednesday, January 02, 2013

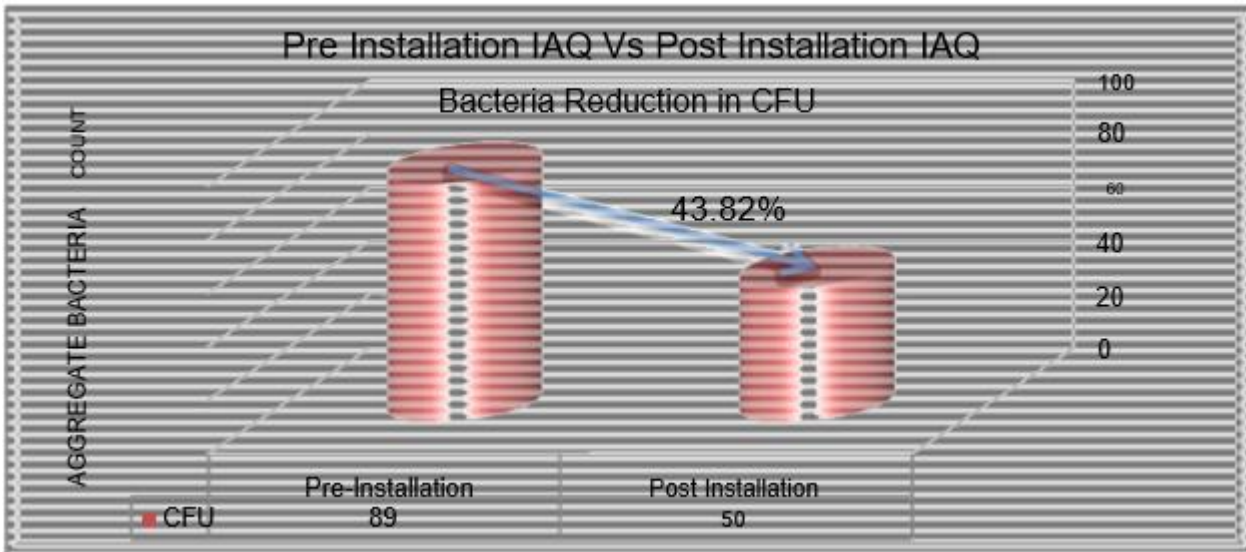
Location	Pre-Installation CFUs		Post Installation CFUs	% Reduction per location
A.H. Room	29		12	58.62%
Bay- 04	35		20	42.86%
Bay- 07	25		18	28.00%
Aggregate	89		50	43.83%

Note: CFU (Colony Forming Unit)

The reduction in the bacteria count in various bays is less because air supplied to these bays is mixed with other AHUs which does not have UV system installed even then we can see a reduction in the Bacterial count of Average 44%. Therefore, if the entire system comes under UV then the bacterial count will reduce drastically

% Bacteria Reduction Post UVGI System

43.82%



TEST S.NO	Coil Dimension (in Ft)		Average FPM	Increase in FPM =	KW Saving on 1AHU =
	Height	Width			
Test - 1	6.3	9.4	719.71	(AVG Post Install - AVG pre-Install)	FPM Incr*Area of coil/400
Test - 2	6.3	9.4	708.42		
AVG Result (Pre-Install)	6.3	9.4	714.06		
Test - 3	6.3	9.4	749.75		
Test - 4	6.3	9.4	751.13		
AVG Result (Post Install)	6.3	9.4	750.44	36.38	5.39

Return on Investment

S. no	Description	Units	Values
1	64" UVGI / Pc.	Rs. / Pc.	13,800.00
2	36" UVGI / Pc.	Rs. / Pc.	11,000.00
3	No. of 64" UVGI Systems	Qty.	3
4	No. of 36" UVGI Systems	Qty.	3
5	Total Basic Charges	(in Rs.)	74,400.00
6	VAT (as per Karnataka state)	14.50%	10,788.00
7	Total Supply Charges	(in Rs.)	85,188.00
8	Energy Saving / Hour	KW	5.39
9	No. of AHU Operation / Day (in Hours)	Hours	12
10	Energy Saving / Day (in KWH)	KWH	64.62
11	No. of AHU Operation / Month (in Days)	Days	22
12	Energy Saving / Month (in KWH)	KWH	1,421.72
13	KW /Unit (in Rs.)	Rs.	8
14	Total Estimated Electricity Saving/Month (in Rs.)	Rs.	11,373.79
15	Total Estimated Electricity Saving/Annual (in Rs.)	Rs.	136,485.52
16	Return on Investment over Savings (in months)	Months	7.49