



IGBC GREEN HOMES

Revision No- 0, Date 29.05.12

1.1 Introduction:

The project 'Villa Sec-44' is being developed by Nutek Overseas Pvt Ltd at Noida. The single residential block is being developed giving due attention to the concept of Sustainability. The villa will have B+G+2 and approximate built-up area would be 6,000 sq.ft with 4,202 sq ft conditioned area.

1.2 Benefits of Green Homes:

Green homes can have tremendous benefits, both tangible and intangible. The most tangible benefits are the reduction in water and energy consumption right from day one of occupancy. The energy savings could range from 20 - 30 % and water savings around 30 - 50%. Intangible benefits of Green homes include enhanced air quality, excellent day lighting, health & wellbeing of the occupants, safety benefits and conservation of scarce national resources. Green homes rating system can also enhance marketability of a project.

1.3 IGBC Green Homes Requirement:

The proposed building is going under IGBC- Green Homes rating system. The Rating system requires the proposed project to demonstrate compliance with the mandatory provisions as well as quantify the energy savings under the "Energy Efficiency" category and this report assists to achieve the same.

1.4 Building Simulation:

The objective of the Draft Energy Analysis report is to evaluate Annual Energy usage and Energy Benefits associated with energy–efficient features. The report is prepared with the help of hourly simulation software which serves as an important tool to simulate various energy efficient measures particular to the building without being actually implementing. Energy efficiency measures in envelope, lighting and HVAC can be analyzed as well as thermal comfort of the occupants can be enhanced. After the energy and cost analysis, decisions on implementing the effective Energy Conservation Measures (ECMs) can be taken.

With several Energy Conservation Measures considered, the proposed building has achieve 33.1% improvement over the base building which is equivalent to base case and this will result in achieving 10 points for Optimized Energy Performance in IGBC rating system for Green Homes.





Energy Conservation Features:

Following are the Energy Conservation measures which were selected for the final analysis:

- 1. Usage of better thermal properties fly ash brick with 25 MM rock wool insulation for external walls.
- 2. Usage of 25mm XPS insulation and green terrace for better thermal properties of roof.
- 3. Better orientation of envelope with external shading devices such as overhangs and balcony's.
- 4. Better thermal properties of Glass (SGU).
- 5. Efficient VRV units with COP 4.2
- 6. Efficient TFA units to treat fresh air effectively and reduce the heat load.
- 7. Optimize design of external lighting layout to minimize external lighting load by 20%.



3. Building Model & Geometry:



4. Weather Data:

The weather data file for city of New.Delhi.421820 was taken from ISHRAE with the following details:

Project Properties				l	? X
Project Data	Contact Information 3-D View D	etails			1
Project Name: Site Address:	Villa Sec-44 Sec-44 Noida		Units of Me	asurement -	
File References Weather File: Library File:	CZ2\IND_New.Delhi.421820_ eQ_Lib.dat	Energy Code Compli Code & Version:	ance	Tendiisii	
Project Creati Last Modified:	on: 15:58, Sun, Apr 15, 2012 09:14, Mon, May 28, 2012				
				[Close

SNAP SHOT of Weather Data Selection



5. Performance Rating Method Compliance Report

Performance Rating Method Compliance Report					
Project Name :	Villa Sec-44				
Project Address :	Noida, UP				
Designer of Record :	Godrej & Boyce	Date: 10-03-2012			
Contact Person :	Jayesh Vira	Tel: 022-67961182			
City :	Mumbai				
Weather Data : IND_New.Delhi.421820_ISHRAE.bin					
Climate Zone : Moderate					

Space Summary	Space Summary							
Building Use	Conditioned Area (sf)	Unconditioned (sf)	Total (sf)					
1. Bed Room	1,272		1,272					
2. Living Rooms	312		312					
3. Kitchen	190		190					
4. Home Theaters	392		392					
5. Stairs		453	453					
6. Restrooms		933.6	933.6					
7. Lobby	700		700					
8. Electrical Room		242.3	242.3					
9. Store	45		45					
10. Lounge	487		487					
11. Play & Bar Room	562		562					
12. Dining Room	250		250					
13. Miscellaneous		261	261					
Total	4,210	1,889.9	6,099.9					

Advisory Messages						
	Proposed Building Design Case	Budget Building	Difference (Proposed Budget)			
Number of hours heating loads not met (system/plant)	0	0	0			
Number of hours Cooling loads not met (system/plant)	0	35	35			
Number of warnings	-	-	-			
Number of errors	-	-	-			
Number of defaults overridden	-	-	-			
Description of differences between th not documented on other forms :	e budget buildir	ig and propos	ed design			
Not Applicable						

Additional Building Information	
Quantity of Bldg	1 Bldg's with B+G+2
Simulation Program	eQUEST 3-63
Utility Rate : Electricity	Rs. 6/kWh or \$ 0.12/kWh
Utility Rate : Natural Gas	-
Utility Rate : Steam or Hot Water	-
Utility Rate : Chilled Water	-

Godrej & Boyce Mfg Co Ltd Green Building Consultancy Services

Villa Sec-44, Noida Green Building Consultancy Services – Energy Simulation Report



Table 4: Baseline & Proposed Design Input Parameters

The building was first modeled on the basis of IGBC Green Homes Guidelines specifically incorporating all the requirements of Annexure 1. The building was simulated with following input parameters:

Comparison of Proposed Design and Baseline Design

Model Input		
Parameter	Proposed Design Input	Baseline Design Input
Exterior Wall Construction	U-value of the wall a - 0.099 Btu/hr. sq feet °F or 0.56 W/sqm K (Section Detail Attached Below)	U-value of the wall for composite climate as per green homes guidelines is 0.44 Btu/hr. sq feet °F or 2.5 W/sqm K
Roof Construction	U-value of the roof - 0.11 Btu/hr. sq feet °F or 0.625 W/sqm K (Section Detail Attached Below)	U-value of the roof for composite as per green homes guidelines is 0.21 Btu/hr. sq feet °F or 1.2 W/sqm K
WWR	22%	22%
Fenestration U- factor	0.49 Btu/hr. sq feet °F	U-value of the glass for composite as per green homes guidelines is 1.0 Btu/hr. sq feet °F
Fenestration SHGC	0.40	0.42 (SHGC for composite climate as per green home guidelines)
Fenestration Visible Light Transmittance	0.51	0.51

Shading Devices	Yes (Balcony's and overhangs)	None
Lighting		
Interior Lighting Power Density (W/sf)	Interior Lighting (for residential units) – 5.7 W/sq m Common Area Lighting (for residential units) – 5.9 W/sq m	As per IGBC guidelines-: Interior Lighting (for residential units) – 5.0 W/sq m Common Area Lighting (for residential units) – 4.0 W/sqm
Daylighting Controls	Yes 10% saving consider (Dimmers)	None
Other Lighting Control Credits	None	None
Office Equipment density	Different for different areas Living Rooms : 1.0 W/ft2 Kitchen : 1.5 W/ft2 Bed Rooms : 0.5 W/ft2 Home Theaters: 1.5 W/ft2 Rest Rooms : 0.25 W/ft2	Different for different areas Living Rooms : 1.0 W/ft2 Kitchen : 1.5 W/ft2 Bed Rooms : 0.5 W/ft2 Home Theaters: 1.5 W/ft2 Rest Rooms : 0.25 W/ft2
Exterior Lighting Power (kW)	Total Power = 0.24 kW (20% reduction on external lighting load)	Total Power = 0.3 kW
Process Lighting (kW)	None	None
Elevator Load (KW)	10 KW	10 KW



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HVAC system		
Primary HVAC		Three star rated PTAC units
System Type	VRV system with 4.2 COP	having 2.7 COP as per green
		nomes guidelines.
Fan Control	VRV System – Two Speed	Constant Volume
Other HVAC System	News	News
Туре	None	None
Fan Power	0.000070 kw/cfm	0.000070 kw/cfm
Service Water	Electric heater to cater	Electric heater to cater
Heating System	100% load	100% load

Table -IGBC Green Homes average baseline budget case figures of

Annual Energy Consumption

The following tabulated values determine the Average budget case figures of annual energy consumption of the building. The budget case was initially modeled with the original orientation and then again modeled each time by rotating the same to 90, 180 and 270 degrees.

Average Baseline Energy End Usage Characterization



Villa Sec-44, Noida Green Building Consultancy Services – Energy Simulation Report



15% 32% Space Cool Space Heat 1% Hot Water Vent. Fans Ext. Usage Misc. Equip. 1% Area Lights



Energy – Use Comparison for all end uses (kWh*1000)

Proposed Energy End Usage Characterization

kWh*1000	0 Deg	90 deg	180 Deg	270 Deg	Avg Baseline	Proposed Case
Space Cool	47.60	44.75	45.41	47.99	46.44	21.06
Space Heat	8.85	8.98	9.02	8.54	8.85	0.55
Hot Water	2.67	2.67	2.67	2.67	2.67	2.67
Vent. Fans	4.18	3.79	4.10	4.45	4.13	3.38
Ext. Usage	1.18	1.18	1.18	1.18	1.18	0.95
Misc. Equip.	28.17	28.17	28.17	28.17	28.17	28.17
Area Lights	8.36	8.36	8.36	8.36	8.36	10.03
Total	101.01	97.90	98.91	101.36	99.80	66.81
Savings					33.1%	32.99

Energy – Use Comparison for all end uses (Cost \$0.12/kWh)

Cost \$0.12/kWh	0 Deg	90 deg	180 Deg	270 Deg	Avg Baseline	Proposed Case
Space Cool	5,712	5,370	5,449	5,759	5572.50	2,527.20
Space Heat	1,062	1,078	1,082	1,025	1061.70	66.00
Hot Water	320	320	320	320	320.40	320.40
Vent. Fans	502	455	492	534	495.60	405.60
Ext. Usage	142	142	142	142	141.60	114.00
Misc. Equip.	3,380	3,380	3,380	3,380	3380.40	3,380.40
Area Lights	1,003	1,003	1,003	1,003	1003.20	1,203.60
Total	12,121	11,748	11,869	12,163	11,975	8,017
Savings					33.1%	3958.20



Proposed Vs Baseline (kWh*1000)



When proposed model is compared to Green Home Baseline model, <u>33.1%</u> energy savings can be obtained. The project qualifies to earn <u>10</u> <u>IGBC Green Homes points</u>

IGBC Green Homes® SUMMARY

The As Is case (Proposed) model shows a positive overall energy performance as compared with the IGBC Green Homes guidelines stipulated baseline model.

For the purposes of determining IGBC[®]Green Homes points for Energy and Atmosphere Credit, the energy costs associated with the entire building are considered for the As Is case model and compared to the overall building energy costs for the minimally-compliant model. The end-uses considered are the Lights, Equipment, Heating, Cooling, and Fan energy.

In our case the As Is model has a positive energy performance (33.1 %) as compared to IGBC baseline model. This will help us to target 10 (Ten) points.





7.1 Annexure – Schedules

Schedules for – Bed Rooms

Occupancy

Day Schedule	Day Schedule Name: Bed room Occupancy WD								
	Type: Fra	action		•					
Hourly Values									
Mdnt - 1:	1.0000	ratio	8-9 am:	0.0000	ratio	4-5 pm:	0.0000	ratio	
1-2 am:	1.0000	ratio	9-10 am:	0.0000	ratio	5-6 pm:	0.0000	ratio	
2-3 am:	1.0000	ratio	10-11 am:	0.0000	ratio	6-7 pm:	0.0000	ratio	
3-4 am:	1.0000	ratio	11-noon:	0.0000	ratio	7-8 pm:	0.0000	ratio	
4-5 am:	1.0000	ratio	noon-1:	0.0000	ratio	8-9 pm:	0.0000	ratio	
5-6 am:	1.0000	ratio	1-2 pm:	0.0000	ratio	9-10 pm:	0.0000	ratio	
6-7 am:	1.0000	ratio	2-3 pm:	0.2500	ratio	10-11 pm:	0.0000	ratio	
7-8 am:	1.0000	ratio	3-4 pm:	0.2500	ratio	11-Mdnt:	1.0000	ratio	

Lighting

Day Schedule	e Name: 🛛	Bed room I	Lighting WD					
	Type: F	raction		•				
Hourly Values	s ———							
Mdnt - 1:	0.000	ratio	8-9 am:	0.0000	ratio	4-5 pm:	0.0000	ratio
1-2 am:	0.000	ratio	9-10 am:	0.0000	ratio	5-6 pm:	0.0000	ratio
2-3 am:	0.000	ratio	10-11 am:	0.0000	ratio	6-7 pm:	0.0000	ratio
3-4 am:	0.0000	ratio	11-noon:	0.0000	ratio	7-8 pm:	0.8000	ratio
4-5 am:	0.0000	ratio	noon-1:	0.0000	ratio	8-9 pm:	0.8000	ratio
5-6 am:	0.0000	ratio	1-2 pm:	0.0000	ratio	9-10 pm:	0.8000	ratio
6-7 am:	0.9000	ratio	2-3 pm:	0.0000	ratio	10-11 pm:	0.8000	ratio
7-8 am:	0.9000	ratio	3-4 pm:	0.0000	ratio	11-Mdnt:	0.8000	ratio

Equipment

Day Schedule	Day Schedule Name: Bed room Equipment WD									
	Type: Fra	action		-						
Hourly Values	s ———									
Mdnt - 1:	0.0000	ratio	8-9 am:	0.0000	ratio	4-5 pm:	0.0000	ratio		
1-2 am:	0.0000	ratio	9-10 am:	0.0000	ratio	5-6 pm:	0.0000	ratio		
2-3 am:	0.0000	ratio	10-11 am:	0.0000	ratio	6-7 pm:	0.0000	ratio		
3-4 am:	0.0000	ratio	11-noon:	0.0000	ratio	7-8 pm:	0.8000	ratio		
4-5 am:	0.0000	ratio	noon-1:	0.0000	ratio	8-9 pm:	0.8000	ratio		
5-6 am:	0.0000	ratio	1-2 pm:	0.0000	ratio	9-10 pm:	0.8000	ratio		
6-7 am:	0.9000	ratio	2-3 pm:	0.0000	ratio	10-11 pm:	0.8000	ratio		
7-8 am:	0.9000	ratio	3-4 pm:	0.0000	ratio	11-Mdnt:	0.8000	ratio		

Fan

Day Schedule	Name: B	ed room HVAC Fan WD			
	Туре: 0	n/Off	-		
Hourly Values					
Mdnt - 1:	1	8-9 am:	0	4-5 pm:	0
1-2 am:	1	9-10 am:	0	5-6 pm:	0
2-3 am:	1	10-11 am:	0	6-7 pm:	0
3-4 am:	1	11-noon:	0	7-8 pm:	0
4-5 am:	1	noon-1:	0	8-9 pm:	0
5-6 am:	1	1-2 pm:	0	9-10 pm:	0
6-7 am:	1	2-3 pm:	1	10-11 pm:	0
7-8 am:	1	3-4 pm:	1	11-Mdnt:	1



Space Cooling

Day Schedule	Name: Be	ed room Cool	ing WD					
	Type: Te	mperature		•				
Hourly Values	;							
Mdnt - 1:	78.0	°F	8-9 am:	85.0	°F	4-5 pm:	85.0	°F
1-2 am:	78.0	°F	9-10 am:	85.0	°F	5-6 pm:	85.0	°F
2-3 am:	78.0	°F	10-11 am:	85.0	°F	6-7 pm:	85.0	°F
3-4 am:	78.0	°F	11-noon:	85.0	°F	7-8 pm:	85.0	°F
4-5 am:	78.0	°F	noon-1:	85.0	°F	8-9 pm:	85.0	°F
5-6 am:	78.0	°F	1-2 pm:	85.0	°F	9-10 pm:	85.0	°F
6-7 am:	78.0	°F	2-3 pm:	78.0	°F	10-11 pm:	85.0	°F
7-8 am:	78.0	°F	3-4 pm:	78.0	°F	11-Mdnt:	78.0	°F

B. Schedules for Living Rooms

Occupancy

Day Schedule	Name: Liv	ving Roc	m Occupancy WD					
	Type: Fra	action		_				
Hourly Values								
Mdnt - 1:	0.0000	ratio	8-9 am:	0.3000	ratio	4-5 pm:	0.2000	ratio
1-2 am:	0.0000	ratio	9-10 am:	0.3000	ratio	5-6 pm:	0.2000	ratio
2-3 am:	0.0000	ratio	10-11 am:	0.3000	ratio	6-7 pm:	0.4500	ratio
3-4 am:	0.0000	ratio	11-noon:	0.3000	ratio	7-8 pm:	0.4500	ratio
4-5 am:	0.0000	ratio	noon-1:	0.5000	ratio	8-9 pm:	0.4500	ratio
5-6 am:	0.0000	ratio	1-2 pm:	0.5000	ratio	9-10 pm:	1.0000	ratio
6-7 am:	0.0000	ratio	2-3 pm:	0.2000	ratio	10-11 pm:	1.0000	ratio
7-8 am:	0.1500	ratio	3-4 pm:	0.2000	ratio	11-Mdnt:	0.3500	ratio

Space Heating

Day Schedule	Name: Be	ed room He	ating WD					
	Type: Te	mperature		-				
Hourly Values	;							
Mdnt - 1:	70.0	°F	8-9 am:	65.0	°F	4-5 pm:	65.0	°F
1-2 am:	70.0	°F	9-10 am:	65.0	°F	5-6 pm:	65.0	°F
2-3 am:	70.0	°F	10-11 am:	65.0	°F	6-7 pm:	65.0	°F
3-4 am:	70.0	°F	11-noon:	65.0	°F	7-8 pm:	65.0	°F
4-5 am:	70.0	°F	noon-1:	65.0	°F	8-9 pm:	65.0	°F
5-6 am:	70.0	°F	1-2 pm:	65.0	°F	9-10 pm:	65.0	°F
6-7 am:	70.0	°F	2-3 pm:	70.0	°F	10-11 pm:	65.0	°F
7-8 am:	70.0	°F	3-4 pm:	70.0	°F	11-Mdnt:	70.0	°F

Lighting

Day Schedule	e Name: Liv	ving Roon	n Lighting WD					
	Type: Fra	action		•				
Hourly Values	s ———							
Mdnt - 1:	0.0050	ratio	8-9 am:	0.6500	ratio	4-5 pm:	0.0000	ratio
1-2 am:	0.0050	ratio	9-10 am:	0.0000	ratio	5-6 pm:	0.2000	ratio
2-3 am:	0.0050	ratio	10-11 am:	0.0000	ratio	6-7 pm:	0.6000	ratio
3-4 am:	0.0050	ratio	11-noon:	0.0000	ratio	7-8 pm:	1.0000	ratio
4-5 am:	0.0050	ratio	noon-1:	0.0000	ratio	8-9 pm:	1.0000	ratio
5-6 am:	0.0050	ratio	1-2 pm:	0.0000	ratio	9-10 pm:	1.0000	ratio
6-7 am:	0.0050	ratio	2-3 pm:	0.0000	ratio	10-11 pm:	1.0000	ratio
7-8 am:	0.8000	ratio	3-4 pm:	0.0000	ratio	11-Mdnt:	1.0000	ratio

Villa Sec-44, Noida Green Building Consultancy Services – Energy Simulation Report



Equipment

Day Schedule	e Name: Liv	ving Ro	om Equipment WD					
	Type: Fra	action		•				
Houriy values	s							
Mdnt - 1:	0.0100	ratio	8-9 am:	0.3500	ratio	4-5 pm:	0.2500	ratio
1-2 am:	0.0100	ratio	9-10 am:	0.8500	ratio	5-6 pm:	0.2500	ratio
2-3 am:	0.0100	ratio	10-11 am:	0.8500	ratio	6-7 pm:	0.4500	ratio
3-4 am:	0.0100	ratio	11-noon:	0.8500	ratio	7-8 pm:	0.8500	ratio
4-5 am:	0.0100	ratio	noon-1:	0.8500	ratio	8-9 pm:	0.8500	ratio
5-6 am:	0.0100	ratio	1-2 pm:	0.8500	ratio	9-10 pm:	0.7000	ratio
6-7 am:	0.0100	ratio	2-3 pm:	0.2500	ratio	10-11 pm:	0.5000	ratio
7-8 am:	0.3500	ratio	3-4 pm:	0.2500	ratio	11-Mdnt:	0.3500	ratio

Space Cooling

Day Schedule N	lame: Liv	ving Room Co	oling WD					
-	Туре: Те	mperature		•				
Hourly Values –								
Mdnt - 1:	85.0	°F	8-9 am:	85.0	°F	4-5 pm:	78.0	°F
1-2 am:	85.0	°F	9-10 am:	85.0	°F	5-6 pm:	78.0	°F
2-3 am:	85.0	°F	10-11 am:	85.0	°F	6-7 pm:	78.0	°F
3-4 am:	85.0	°F	11-noon:	78.0	°F	7-8 pm:	78.0	°F
4-5 am:	85.0	°F	noon-1:	78.0	۴F	8-9 pm:	78.0	°F
5-6 am:	85.0	°F	1-2 pm:	78.0	°F	9-10 pm:	78.0	°F
6-7 am:	85.0	°F	2-3 pm:	78.0	°F	10-11 pm:	85.0	°F
7-8 am:	85.0	°F	3-4 pm:	78.0	°F	11-Mdnt:	85.0	°F

Fan

Day Schedule	Name:	Living F	Room HVAC Fan WD			
	Type:	On/Off		•		
Hourly Values	;					
Mdnt - 1:		0	8-9 am:	0	4-5 pm:	1
1-2 am:		0	9-10 am:	0	5-6 pm:	1
2-3 am:		0	10-11 am:	0	6-7 pm:	1
3-4 am:		0	11-noon:	1	7-8 pm:	1
4-5 am:		0	noon-1:	1	8-9 pm:	1
5-6 am:		0	1-2 pm:	1	9-10 pm:	1
6-7 am:		0	2-3 pm:	1	10-11 pm:	0
7-8 am:		0	3-4 pm:	1	11-Mdnt:	0

Space Heating

Day Schedule	e Name: Liv	ving Room H						
	Туре: Те	mperature		-				
Hourly Values	s							
Mdnt - 1:	65.0	°F	8-9 am:	65.0	°F	4-5 pm:	70.0	°F
1-2 am:	65.0	°F	9-10 am:	65.0	°F	5-6 pm:	70.0	°F
2-3 am:	65.0	°F	10-11 am:	65.0	°F	6-7 pm:	70.0	°F
3-4 am:	65.0	°F	11-noon:	70.0	°F	7-8 pm:	70.0	°F
4-5 am:	65.0	°F	noon-1:	70.0	°F	8-9 pm:	70.0	°F
5-6 am:	65.0	°F	1-2 pm:	70.0	°F	9-10 pm:	70.0	°F
6-7 am:	65.0	°F	2-3 pm:	70.0	°F	10-11 pm:	65.0	°F
7-8 am:	65.0	°F	3-4 pm:	70.0	°F	11-Mdnt:	65.0	°F



Wall and Roof Section Details-:

WALL COMPOSITION									
ltem	Thickness (mm)	Thickness (Inch)	R Value per inch (hrSq.ft°F/Btu)	R Value (hrSq.ft°F/Btu)					
External Air				0.250					
Plaster	20	0.787	0.2	0.157					
Fly Ash Brick	230	9.055	0.35	3.169					
Rock Wool Slab	25	0.984	5.8	5.709					
Plaster	15	0.591	0.2	0.118					
Internal Air	-			0.680					
Total R Value				10.084					
U Value (Btu/hrft ² °F)				0.099					

ROOF ASSEMBLY									
Particulars	Thickness (mm)	Thickness (Inch)	R Value per inch (hrSq.ft°F/Btu)	R Value (hrSq.ft°F/Btu)					
External Air	-			0.25					
Cement Plaster	20	0.787	0.2	0.16					
Water Proofing	0	0.000		0.06					
RCC Slab	150	5.906	0.11	0.65					
XPS Insulation	25	0.984	5.2	5.12					
Terrace Garden	300	11.811	0.167	1.97					
Internal Air		0.000		0.92					
Total R Value				9.13					
U Value (Btu/hr-ft ² °F)				0.11					



Chiller Cut Sheet-:

NAL OI4	DAIKIN AIRCONDITIO 12th Floor, Building No.9, Tower 'A Gurgaon - 122002, Haryana, Inc Tel: 0124 - 4555444 Fax: 0124- 4 www.daikinindia.com	NING INDIA PVT. LTD. V DLF Cyber City DLF Phase III ia 555455	DAIKIN	
DAIPL/VT/CERT	7/2012	May 11,	May 11, 2012	
M/s Meinhardt, A-8, Sector 16, Noida, U.P. 2013	301			
Dear Sir,				
We hereby certify & Eco-friendly ref Also our 8 HP conditions. (35de Also Daikin VRV	r that Daikin VRV units contains frigerant. (Model – RXYQ8PRY6) ODU g DB outside, 27 deg DB/ 19deg system has featured of night tim	R410A refrigerant, which is a has COP value of 4.27 a WB inside at 100% connecti- le quiet operation.	0A refrigerant, which is a Non-ODS s COP value of 4.27 at nominal inside at 100% connection ratio) iet operation.	
Thanking you,				
Yours truly,				
For Daikin Airconditioning India Pvt. Ltd.				
Devesh Arya				