



Energy Efficiency Labels for Residential Buildings

Overview of Tool

Bureau of Energy Efficiency

Bureau of Energy Efficiency, Ministry of Power, Government of India

1

Stages of Labelling

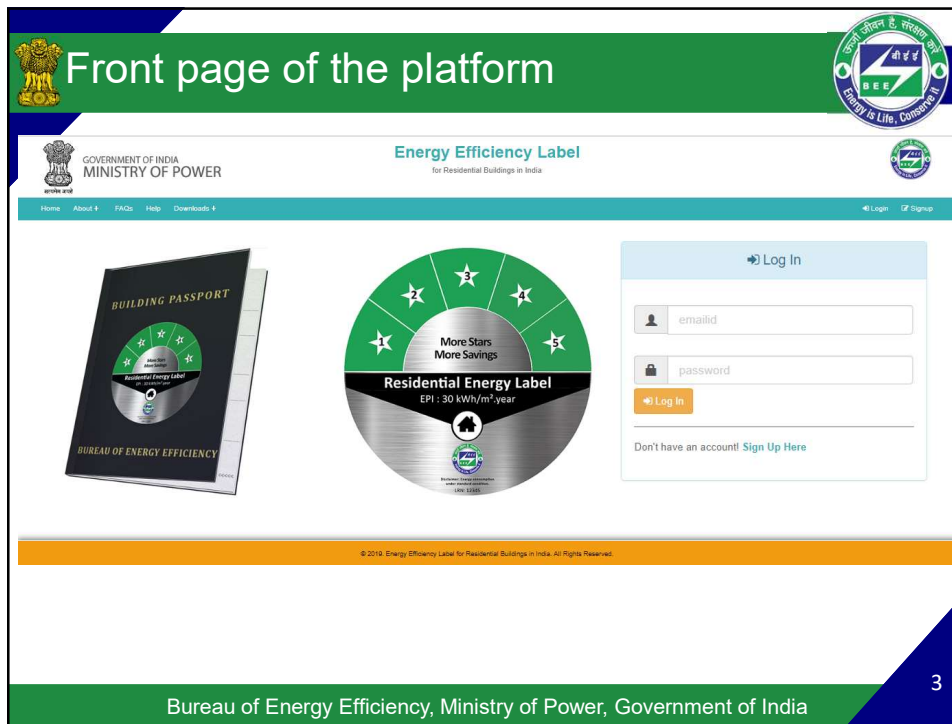
```

    graph TD
      A[Construction permit is issued] --> B[Occupancy Certificate Obtained]
      A --> C{Applied For Label}
      C --> B
      C --> D[Existing building]
      B --> E[Final Star Label]
      D --> F[Final Star Label with certain assumptions for Operation]
      subgraph New Dwelling
        B
        E
      end
      subgraph Existing Dwelling
        D
        F
      end
      G[Not mandatory in case the builder is availing the label at occupancy certificate stage] -.-> C
  
```

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2

Front page of the platform



GOVERNMENT OF INDIA
MINISTRY OF POWER

Energy Efficiency Label
for Residential Buildings in India

Home About FAQs Help Downloads Login Sign Up

BUILDING PASSPORT
BUREAU OF ENERGY EFFICIENCY

Residential Energy Label
EPI : 30 kWh/m²·year

Log In

emailid

password

Log In

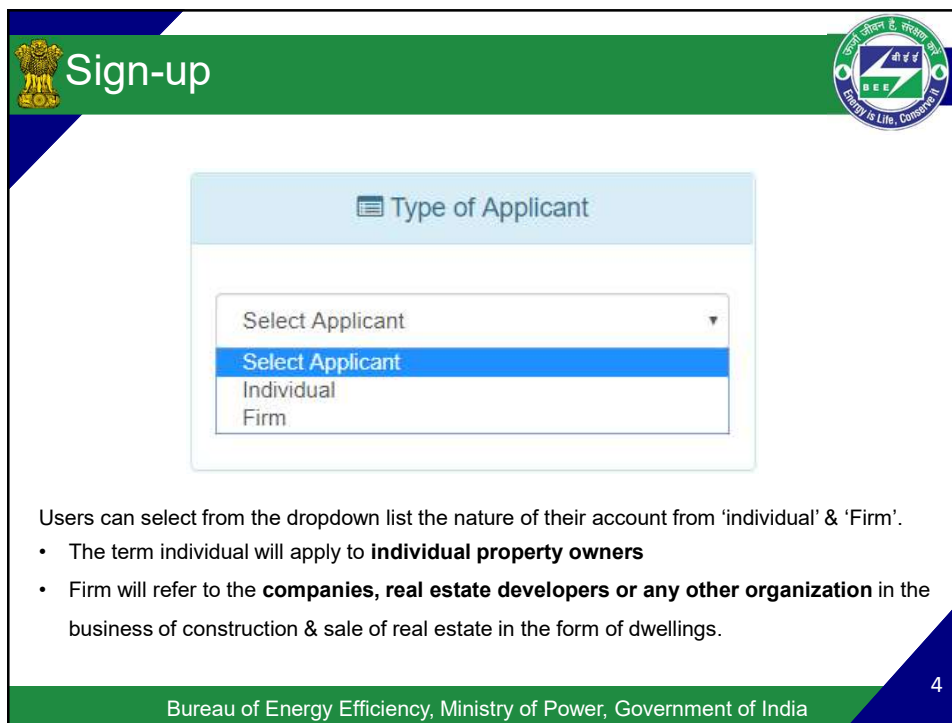
Don't have an account? [Sign Up Here](#)

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3

Sign-up



Type of Applicant

Select Applicant

Select Applicant

Individual

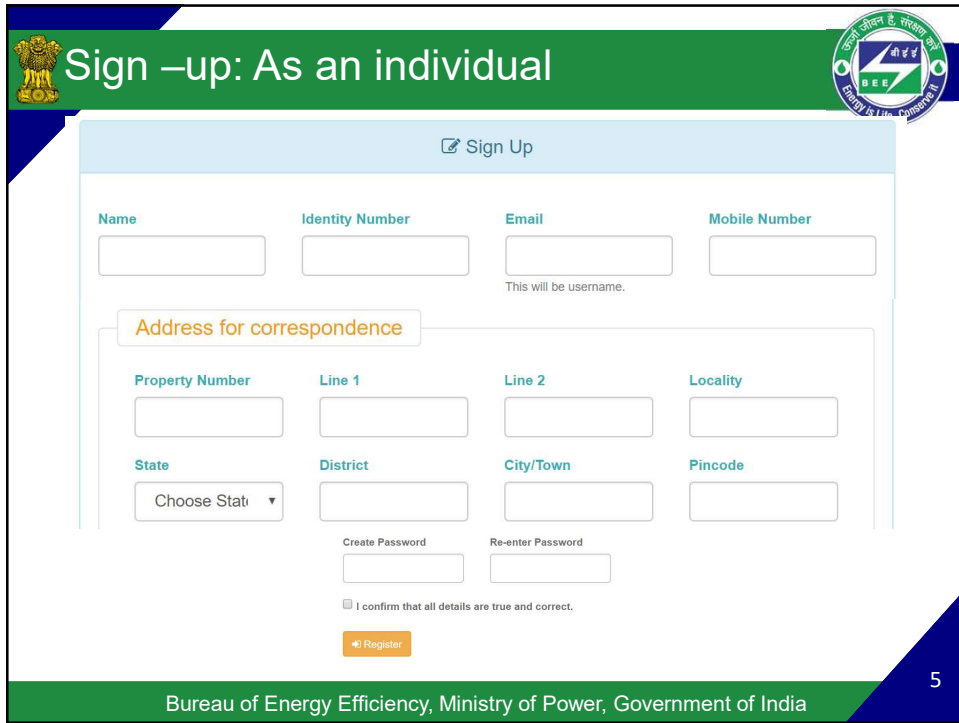
Firm

Users can select from the dropdown list the nature of their account from 'individual' & 'Firm'.

- The term individual will apply to **individual property owners**
- Firm will refer to the **companies, real estate developers or any other organization** in the business of construction & sale of real estate in the form of dwellings.

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4



Sign –up: As an individual

Sign Up

Name Identity Number Email Mobile Number

This will be username.

Address for correspondence

Property Number Line 1 Line 2 Locality

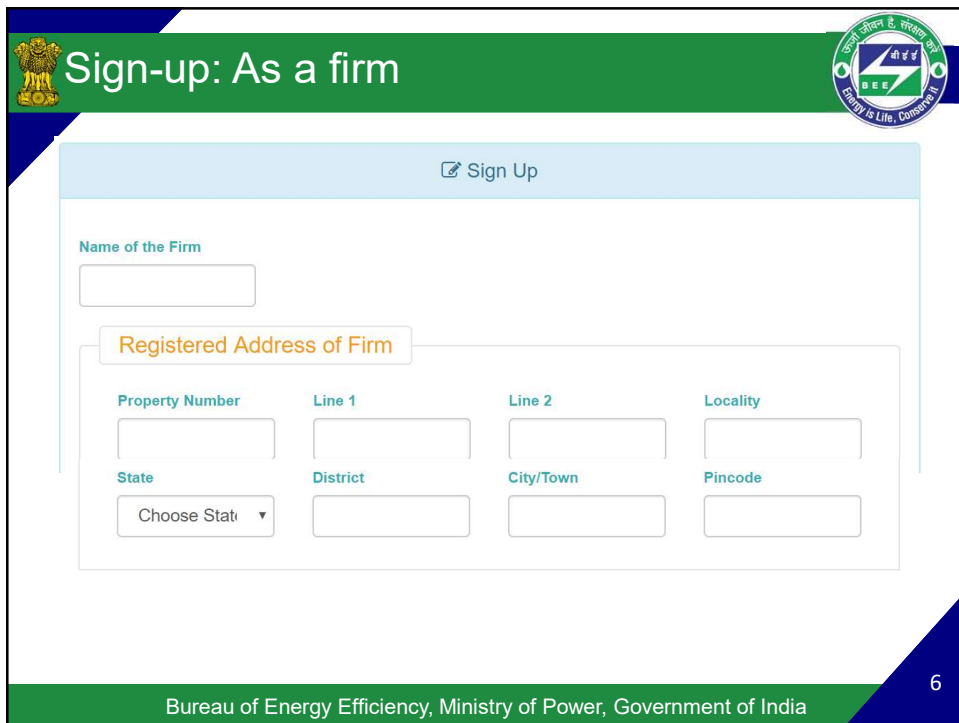
State District City/Town Pincode

Create Password Re-enter Password

I confirm that all details are true and correct.

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5



Sign-up: As a firm

Sign Up

Name of the Firm

Registered Address of Firm

Property Number Line 1 Line 2 Locality

State District City/Town Pincode

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6

Sign-up: As a firm

Firm Registration Proof

Document
List of Document

Doc Identity Number

PAN of firm
Choose File No file chosen

PAN Identity Number

Authorised Person Details

Name of authorised person <input type="text"/>	Designation <input type="text"/>	Email <input type="text"/> <small>This will be username.</small>	Mobile Number <input type="text"/>
--	--	---	--

Authorization Letter

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7

Individual & Firm: Front page


Registered User

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8



Individual & Firm: View Registered Projects




☰ Registered Project


S. No.	Identification Number	Project Name	Address	Date of Registration	Type of Label	Status	Action
1	T3LTE	Pop1	eaff, cadva	10-05-2019	Final	In Progress	
2	K12TY	jjgda	qefea, sdvsd	15-05-2019	Final	Pending with IAME	--
3	AMHUW	Test 24	Street 12, Ahmedabad	15-05-2019	Final	Pending with IAME	--

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9



Individual: Register New Property



Register New Property

Name of the Property

Registered Address of Property

Line 1

Line 2

Locality

State


District

City/Town


Pincode

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10



Individual: Register New Property



Latitude

Climate

Approved Architectural Plan


Built up Area (m2)

Property Authentication proof


I confirm that all details are true and correct.

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11



Firm: Register new property



Name of the Project

Registered Address of Project

Line 1

Line 2

Locality

State



District

City/Town

Pincode

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12

 **Firm: Register new property** 

Project Detail

Total Number of Blocks

Upload Approved Architectual Plan



Total Built up Area (m2)

Total number of dwelling units

Type of application

Number of dwelling units to be evaluated under the BEE Star Label Program

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 **Firm: Register new property** 

Total built up area to be evaluated


Project Authentication proof

I confirm that all details are true and correct.

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Individual: General details of property




General DetailsLayoutConstructionEnvelope DetailsHVACLighting DetailsUnit Details


Name of the Project <input type="text" value="Hshs"/>	State <input type="text" value="Chandigarh"/>	Climate <input type="text" value="Choose Climate"/>
Latitude <input type="text" value="less than 23.5"/>	Total Number of Blocks <input type="text" value="2"/>	Total Built up Area (m2) <input type="text" value="2000"/>
Total number of dwelling units <input type="text" value="2"/>	Type of application <input type="text" value="Final"/>	Number of dwelling units to be evaluated <input type="text" value="2"/>
Total built up area to be evaluated <input type="text" value="2000"/>	Project Authentication proof 1522229240.jpg	
Architectural Plan 561355471.jpg		

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15



Firm: General details of property




General DetailsLayoutConstructionEnvelope DetailsHVACLighting DetailsUnit Details


Name of the Project <input type="text" value="Hshs"/>	State <input type="text" value="Chandigarh"/>	Climate <input type="text" value="Choose Climate"/>
Latitude <input type="text" value="less than 23.5"/>	Total Number of Blocks <input type="text" value="2"/>	Total Built up Area (m2) <input type="text" value="2000"/>
Total number of dwelling units <input type="text" value="2"/>	Type of application <input type="text" value="Final"/>	Number of dwelling units to be evaluated <input type="text" value="2"/>
Total built up area to be evaluated <input type="text" value="2000"/>	Project Authentication proof 1522229240.jpg	

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16



Firm: General details of property



Enter details for dwelling units


Name of the block:	Number of Floors	Total Number of Units per floor
Block 1	1	1
Block 2	1	1

Number of distinct dwelling types


4

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17



Firm: General details of property




Enter details for dwelling types


S.No	Dwelling Type	Number of identical units	Area (m2)
1	Dwelling Type 1		
2	Dwelling Type 2		
3	Dwelling Type 3		
4	Dwelling Type 4		

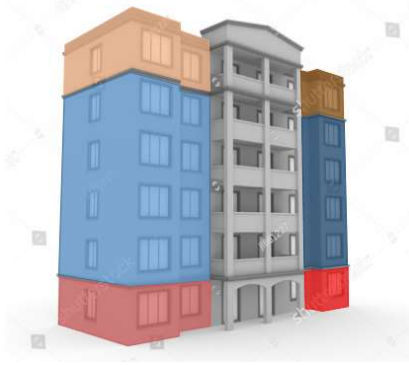
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18



Distinct Dwelling Units





Dwelling Type 1

Dwelling Type 4


Dwelling Type 3

Dwelling Type 6


- A distinct dwelling unit type will fulfil a combination of all of the below mentioned properties and all the dwelling units with identical properties will fall under that particular dwelling type.
 1. Distinct architectural layout (i.e. space configuration)
 2. Distinct orientation/exposure to sun
 3. Distinct built up area
 4. Distinct boundary conditions i.e. floor adjacent to ground or not, roof/ceiling exposed to sun or not, number of facades exposed

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19



Individual: Layout of property



General Details
Layout
Construction
Envelope Details
HVAC
Lighting Details
Unit Details

Layout

Wall-2 [Y1]

Wall-1 [X1]

Select
▼

- Select
- L-shape
- U-shape
- T-shape
- Rectangular-Corner-shape
- Reactangular-Shape
- Custom

Select
▼

- Select
- N
- S
- E
- W
- NE
- NW
- SE
- SW

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20

10

Firm: Layout of dwelling types

General Detail

Dwelling Type 1 10

Layout
Construction
Envelope Details
HVAC
Lighting Details
Unit Details

Layout

Wall-2 [Y1]

Wall-1 [X1]

X1 (m)

Y1 (m)

Select
 Select
 L-shape
 U-shape
 T-shape
 Rectangular-Corner-shape
 Rectangular-Shape
 Custom

Select
 Select
 N
 S
 E
 W
 NE
 NW
 SE
 SW

Floor Height (m)

Orientation

21

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Layout of property

Layout
Construction
Envelope Details
HVAC
Lighting Details
Unit Details

Conditioned Spaces

Wall-2 [Y1]

Wall-1 [X1]

X1 (m)

Y1 (m)

Floor Height (m)

Orientation
 Select
 Select
 N
 S
 E
 W
 NE
 NW
 SE
 SW

1. After choosing the shape of the property, the user will be required to fill in the dimensions of the shape. For ex., after choosing rectangular shape, the user will be required to fill in the length of two sides of the rectangle (X1, Y1) in meters.
2. The User will be required to fill in the height of the floor in meters in this section

22

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11

Construction: Wall Details

Layout Construction Envelope Details HVAC Lighting Details Unit Details

Wall Details

Definitation Type
Properties

Wall Name

Thermal Properties (W/m²K)

S.No.	Wall Name	Thermal Properties (W/m ² K)	Uploaded Proof
1	Wall1	2.4	305222436.jpg

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23

Construction: Roof Details

Roof Details

Definitation Type
Properties


Roof Name Thermal Properties (W/m²K)

S.No.	Roof Name	Thermal Properties (W/m ² K)	Uploaded Proof
1	roof1	3.5	522284894.jpg

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24

Construction: Fenestration Details




Fenestration Details

Select Fenestration	<input type="text" value="Select"/>	Name of the window	<input type="text"/>
Type	<input type="text" value="Select"/>	Thermal Properties (W/m ² K)	<input type="text"/>
SHGC	<input type="text"/>	Visual Light Transmission	<input type="text"/>
Glazing %	<input type="text"/>	Opaque Frame Properties (W/m ² K)	<input type="text"/>
	<input type="button" value="Upload Proof"/>		<input type="button" value="Upload Proof"/>

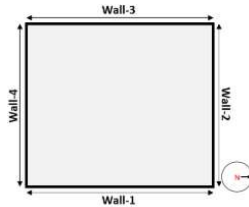
25

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Envelope Details



Wall-1

Wall Name	Length	Height	Area	
<input type="text" value="Wall1"/>	<input type="text" value="100"/> m	<input type="text" value="3.5"/> m	<input type="text" value="350"/> m ²	



Construction

Type	Length	Height	Area	Is the floor slab adjacent to ground?
<input type="text" value="Wall1"/>	<input type="text" value="100"/> m	<input type="text" value="3.5"/> m	<input type="text" value="350"/> m ²	<input type="text" value="Yes"/>

Boundary Condition

26

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 **Envelope Details** 

Wall-1



Fenestration

Type	Number	Length	Height	Area
Win1	2	2 m	1 m	2 m ²

Shading Type: Overhang Overhang Depth: 0.25 Overhang Distance: 1

[+ Add Fenestration](#)

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 **Envelope Details** 

Roof

Roof Name	Width	Height	Area	Roof exposed to outside
roof1	100 m	10 m	1000 m ²	Yes

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HVAC Details

Layout Construction Envelope Details HVAC Lighting Details Unit Details

AC Details

Air Conditioner Type	Capacity	ISEER
Window <small>490870148.jpg</small>	5 kW	3.1
Split <small>1791542697.jpg</small>	2.5 kW	3.5

+ Add AC

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29

Lighting Details

Layout Construction Envelope Details HVAC Lighting Details Unit Details



Fill the lighting system details

Fixture Type	Power	Number of fixtures
Led1 <small>1319961007.jpg</small>	15 W	4
Cfl <small>1144679276.jpg</small>	28 W	2

+ Add lighting system type

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30

 **Individual: Units details** 

General Details | Layout | Construction | Envelope Details | HVAC | Lighting Details | **Unit Details**

Unit Name
GIZ india



Address
RK Puram New Delhi

To show summary of full application [click here](#)

I confirm that I want to apply for label

I Agree

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 **Firm: Units details** 

Layout | Construction | Envelope Details | HVAC | Lighting Details | **Unit Details**


	Dwelling Unit Number	Floor	Tower/Building name
5	10	2	Tower 3

To show summary of full application [click here](#)


I confirm that I want to apply for label

I Agree

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Successful Submission



1


Congratulations!
You have successfully submitted your application.
Your application reference number is W7UWVK

Proceed for Payment

6

Name	Abhi
Address	1123
City	1123
Pin code	312415
Buildup area(sq.m ²) area	80
Type of Label	Final
Label Reference Number	W7UWVK

Unit Name	Predicted EPI (kWh/m ² .Year)	Predicted Star Label
VDR# JKSA	27.78	5 Star



*Disclaimer: The results shown here is based only on the information provided by the user. This result and predicted star label can not be offered as guarantee for any advertisement or any transaction like mortgage/loan/leasing. Final results will be generated after data review and testing of the information EPI.


Please click on download button to download your submitted application and predicted star label for your property.

5


Download

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33




Successful Submission




1. This section will contain the application reference number which will be used to address the application throughout its lifecycle.
2. This section will contain the unit name & address filled in by the users in the 'Unit Details' tab.
3. Predicted EPI (Energy Performance Index) for the property will appear in this section. The unit for EPI will be kWh/m².Year.
4. Predicted Star label for the property will appear in this section
5. Users can download this page in '.PDF' format upon clicking on this button
6. Users can proceed to the payment section for the application upon clicking this button. The 'proceed to payment' will only appear if the user is eligible for a star label.


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34




Residential Label






Residential Energy Label
EPI : 30 kWh/m²·year




उर्जा दक्ष घर
ईपीआर: 30 किलोवाट घंटा प्रति वर्ग मीटर प्रति वर्ष


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35



Letter of award: 'Applied For' Label





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Ministry of Power, Government of India

Application Reference Number: _____
DD Month YYYY

Name of Applicant
Address Line 1
Address Line 2
District, State
Pin Code

Sub: Energy Efficiency Star Labelling for Residential Buildings – "Applied For Label"

Dear Name of Applicant,

This has reference to your application for "Applied for" label under BEE Energy Efficiency Star Rating of Residential Buildings.

Consequent to scrutiny and verification of the data submitted by you, we are pleased to inform that your property/project at 'Address', has been awarded "Applied for" Star Label as per table enclosed below in Annexure.


Thanking You,

Yours faithfully,


(Name)
Director, BEE


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36



Letter of award: 'Final' Label





Bureau of Energy Efficiency
Ministry of Power, Government of India

Application Reference Number: _____
DD Month YYYY

Name of Applicant
Address Line 1
Address Line 2
District, State
Pin Code

Sub: Energy Efficiency Star Labelling for Residential Buildings – "Final Label"

Dear *Name of Applicant*,

This has reference to your application for 'Final Label' under BEE Energy Efficiency Star Rating of Residential Buildings.

Consequent to scrutiny and verification of the data submitted by you, we are pleased to inform that your property/project at 'Address', has been awarded Star Label as per certificates enclosed below in Annexure.


Thanking You.

Yours faithfully,


(Name)
Director, BEE


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37



Final Label Certificate






Bureau of Energy Efficiency
Ministry of Power, Government of India

*It is certified that "Address of Residence" located in ***** climatic zone has been awarded a BEE 5-star Label with the details below:*

Basic Information	
Address of the residence	: _____
Total area requested for labelling (m ²)	: _____ ###
Total number of dwelling units requested for labelling	: _____ ###
Label reference Number	: _____

Label Information	
Predicted Energy Performance Index (EPI) (kWh/m ² _year)	: _____ ###
BEE star label awarded	: 
BEE Star Label Criteria	: 2019-2020
Label Awarded on	: dd-month-yyyy
Valid till	: dd-month-yyyy

Application Reference Number: _____


Dated. dd/mm/yyyy

Name Surname
Director, BEE


*Disclaimer: The results shown here is based only on the information provided by the applicant. This result and predicted star-label can be referred or considered for any advertisement or any transaction like renting/leasing/selling purpose only

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38

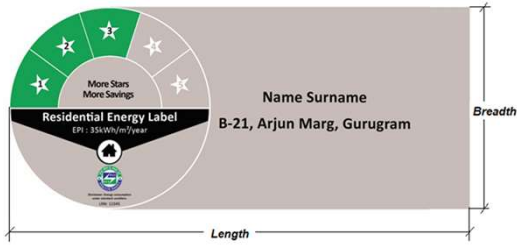


Plaque Details





There are three optional sizes for the Name Plaque. The sizes are:

Small: Length- 381 mm (15 inches) X Breadth- 152.4 mm (6 inches)
Medium: Length-476.25 mm (18.75 inches) X Breadth - 190.5 mm (7.5 inches)
Large: Length-571.5 mm (22.5 inches) X Breadth-228.6 mm (9 inches)



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41

Thank You

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42