

## ***IGBC Green Factory Building Rating System - Version 2.0***

### ***First Addendum – April 2025***

- ❖ All the projects registered before 01 May 2025 can show compliance either through ***Version 2.0 or Version 2.0 with first addendum*** of the IGBC Green Factory Building Rating System
- ❖ All projects registered post 01 May 2025 shall mandatorily show compliance using ***version 2.0 with first addendum*** of the IGBC Green Factory Building Rating System



Credit Number / Location		Addendum																		
		<p><b>Exemplary Performance:</b></p> <p>This credit is eligible for exemplary performance under Innovation in Design &amp; Operation by providing rainwater systems to capture run-off volume greater than ‘one-day rainfall’ as specified in Table 7.</p> <p>Table 7 Criteria to arrive at “One-day Rainfall” for exemplary performance</p> <table><tr><th rowspan="2">S No</th><th rowspan="2">Average Peak Month Rainfall (mm)</th><th colspan="2">One-day Rainfall (% of Average Peak Month Rainfall)</th></tr><tr><th>Case A</th><th>Case B</th></tr><tr><td>1</td><td>Upto 500</td><td>14%</td><td>10%</td></tr><tr><td>2</td><td>501 – 700</td><td>11%</td><td>8%</td></tr><tr><td>3</td><td>701 &amp; above</td><td>8%</td><td>6%</td></tr></table>	S No	Average Peak Month Rainfall (mm)	One-day Rainfall (% of Average Peak Month Rainfall)		Case A	Case B	1	Upto 500	14%	10%	2	501 – 700	11%	8%	3	701 & above	8%	6%
S No	Average Peak Month Rainfall (mm)	One-day Rainfall (% of Average Peak Month Rainfall)																		
		Case A	Case B																	
1	Upto 500	14%	10%																	
2	501 – 700	11%	8%																	
3	701 & above	8%	6%																	
WC Credit 4	Wastewater – Treatment	<p><i>Newly Added</i></p> <p><i>Notes:</i></p> <ul style="list-style-type: none"><li><i>• In cases where the project is located within an industrial park with the facility to divert wastewater to a centralized or common wastewater treatment plant. The credit compliance can be demonstrated by diverting the wastewater.</i></li></ul>																		
WC Credit 5	Water Metering and Management	<p><i>Credit Requirement is modified as follows:</i></p> <p>Points are awarded as follows:</p> <table><tr><th>Percentage of water metered for different end uses:</th><th>Points</th></tr><tr><td>≥ 80%</td><td>1</td></tr><tr><td>≥ 90%</td><td>2</td></tr></table>	Percentage of water metered for different end uses:	Points	≥ 80%	1	≥ 90%	2												
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WC Credit	Alternative Water Consumption	<i>The WPR Percentage requirements have increased from 30%, 40%, 50% &amp; 60% to 40%, 50%, 60% &amp; 70%, respectively.</i>										
		Points awarded are as follows:										
		<table><tr><th>Water Performance Ratio (% Alternate Water to Total Water Consumption)</th><th>Credit Points</th></tr><tr><td>40</td><td>1</td></tr><tr><td>50</td><td>2</td></tr><tr><td>60</td><td>3</td></tr><tr><td>70</td><td>4</td></tr></table>	Water Performance Ratio (% Alternate Water to Total Water Consumption)	Credit Points	40	1	50	2	60	3	70	4
		Water Performance Ratio (% Alternate Water to Total Water Consumption)	Credit Points									
		40	1									
		50	2									
60	3											
70	4											
<b>Exemplary Performance:</b>												
This credit is eligible for exemplary performance under Innovation in Design & Operation if the water performance ratio is greater than 75%												
EE Mandatory Requirement 2	Minimum Energy Performance	<i>Mandatory compliance is modified as follows: (Removed requirements for Fans, Pumps &amp; Motors).</i>  <b>Option 1: Prescriptive Method</b>  The Factory buildings shall meet the following prescriptive measures, as applicable:  <b>1) Building Envelope:</b>										

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Credit Number / Location		Addendum			
			Envelope Component	Air-Conditioned Spaces	Other Spaces
			Overall Roof Assembly U-value (W/m2K)	1.2	1.5
			Overall Wall Assembly U-value (W/m2K)	1.5	2.2
			Solar Heat Gain Coefficient	0.40 (WWR < 40%)	0.6 (WWR < 40%)
			All Climates except Cold (non-north façade)	0.35 (WWR > 40%)	0.5 (WWR > 40%)
			Solar Heat Gain Coefficient (Cold Climate)	0.8	0.8
		2) Lighting			
The Lighting Power Density (LPD) in the building interior, exterior and parking areas shall be reduced by minimum 10% over ASHRAE 90.1 2016/NBC 2016 .					
EE Mandatory Requirement 3	Commissioning Plan for Building Systems	Mandatory compliance is modified as follows:  Compliance Options:  The commissioning authority is required to have at least 3 years of prior experience in equipment & systems.			
EE Credit 2	Enhanced Energy Performance	Credit compliance is modified as follows: ❖ Option 1 - Prescriptive Approach:  Demonstrate that the project is able to enhance energy efficiency in the building by meeting the minimum (or maximum) values prescribed in Credit 2.1 to Credit 2.4. Credit 2.1: Efficient Building Envelope  Demonstrate the excellence in energy efficiency of building an envelope by meeting the specified requirements at the following envelope component level.			
		Points: 3			

Credit Number / Location		Addendum														
			<b>Envelope Component</b>	<b>Air-Conditioned Spaces</b>	<b>Other Spaces</b>	<b>Credit Points</b>										
		Overall Roof Assembly U-value	0.6 W/m²K	1.0 W/m²K	1											
			0.3 W/m²K	0.5 W/m²K	2											
		Overall Wall Assembly U-value	0.75 W/m²K	1.5 W/m²K	1											
		Solar Heat Gain Coefficient All Climates except Cold Climate (non-north façade)	0.3 (WWR < 40%)	0.4 (WWR < 40%)	1											
			0.25 (WWR > 40%)	0.3 (WWR > 40%)												
		<b>Credit 2.2: Efficient Lighting System</b>														
		<b>Points: 3</b>														
		Demonstrate that the interior lighting power density of the project is reduced by at least 30% over the ECBC 2017 Baseline.														
<table><tr><th colspan="2">Reduction in LPD &amp; Control</th><th>Points</th></tr><tr><td colspan="2">≥ 30% Reduction in LPD</td><td>1</td></tr><tr><td colspan="2">≥ 50% Reduction in LPD</td><td>2</td></tr><tr><td colspan="2">50% of lighting load shall have automatic control* to reduce lighting energy use</td><td>1</td></tr></table>					Reduction in LPD & Control		Points	≥ 30% Reduction in LPD		1	≥ 50% Reduction in LPD		2	50% of lighting load shall have automatic control* to reduce lighting energy use		1
Reduction in LPD & Control		Points														
≥ 30% Reduction in LPD		1														
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50% of lighting load shall have automatic control* to reduce lighting energy use		1														
<p>*Lighting of all non-emergency exterior &amp; interior areas such as warehouses, staircases, corridors, façade, pathways, should have at least one of the following lighting controls:</p> <ol style="list-style-type: none"><li>Daylight Control</li><li>Occupancy Control</li></ol>																

Credit Number / Location	Addendum														
	<div><div>Credit 2.3: Efficient HVAC System</div><div>Points: 4</div><div>Use of centralised or unitary air conditioning system to demonstrate the compliance for HVAC System</div><div>Case A: Centralised Air Conditioning System</div><div>Project should use chillers as per Standards and Labelling Program of BEE. Points are awarded as below:</div><table><thead><tr><th>Star Rating</th><th>Points</th></tr></thead><tbody><tr><td>3 Star</td><td>1</td></tr><tr><td>4 Star</td><td>2</td></tr><tr><td>5 Star</td><td>4</td></tr></tbody></table><div>Note: When a building is using multiple chillers, the overall energy efficiency rating (COP &amp; ISEER) for compliance can be determined by calculating a weighted average of the energy efficiency ratings (COP &amp; ISEER) of all the chillers and determine the equivalent star rating using the BEE's star labelling system.</div><div>OR</div><div>Case B: Other HVAC System or Non-conditioned Buildings</div><div>Project should use air conditioning system as per Standards and Labelling Program of BEE. Points are awarded as below:</div><table><thead><tr><th>Star Rating</th><th>Points</th></tr></thead><tbody><tr><td>4 Star</td><td>1</td></tr><tr><td>5 Star</td><td>2</td></tr></tbody></table></div>	Star Rating	Points	3 Star	1	4 Star	2	5 Star	4	Star Rating	Points	4 Star	1	5 Star	2
Star Rating	Points														
3 Star	1														
4 Star	2														
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Credit Number / Location		Addendum															
			<table><tr><td>HVLS Fans</td><td>1</td></tr><tr><td>Evaporative Cooling System</td><td>1</td></tr></table>	HVLS Fans	1	Evaporative Cooling System	1										
		HVLS Fans	1														
		Evaporative Cooling System	1														
<p><b>Credit 2.4: Low Energy Cooling System</b> <b>Points: 2</b></p> <p>Installed / implement any of the following low energy comfort systems in place of (or in conjunction with) refrigerant-based cooling systems.</p> <ol style="list-style-type: none"><li>Desiccant cooling system</li><li>Solar air conditioning</li><li>Tri-generation (waste-to-heat)</li><li>Radiant cooling system</li><li>Ground source heat pump</li><li>Adiabatic cooling system</li></ol>																	
EE Credit 3	Green Power	<p><i>Credit compliance is modified as follows:</i></p> <p>(Maximum achievable points increased from 6 points to 8 points)</p> <table><tr><th>The percentage total of onsite/offsite renewable energy to the total annual non-process energy consumption</th><th>Credit Points</th></tr><tr><td>≥ 30%</td><td>1</td></tr><tr><td>≥ 40%</td><td>2</td></tr><tr><td>≥ 50%</td><td>3</td></tr><tr><td>≥ 60%</td><td>4</td></tr><tr><td>≥ 70%</td><td>5</td></tr><tr><td>≥ 80%</td><td>6</td></tr></table>		The percentage total of onsite/offsite renewable energy to the total annual non-process energy consumption	Credit Points	≥ 30%	1	≥ 40%	2	≥ 50%	3	≥ 60%	4	≥ 70%	5	≥ 80%	6
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Credit Number / Location		Addendum		
			≥ 90%	7
			≥ 100%	8
<b>EE Credit 5</b>	Energy Monitoring	<p><i>The Credit Point has been revised from 4 to 2. Real-time Energy Performance is included as part of the exemplary.</i></p> <p><i>EE Credit 5: Energy Performance Monitoring</i></p> <p><b>EE Credit 5: Energy Monitoring</b></p> <p><b>Exemplary Performance:</b></p> <p>This credit is eligible for exemplary performance under Innovation in Design &amp; Operation if the project provides a monitoring system along with dashboards.</p>		
<b>MR Credit 2</b>	Organic Waste Management	<p><i>Newly Added:</i></p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <li>• The project can also assess opportunities available in the community for the treatment of organic wastes.</li> </ul>		
<b>MR Credit 7</b>	Eco-Friendly Wood-Based Materials	<p><i>The Credit is now only applicable for New Buildings</i></p>		
<b>IEQ Mandatory Requirement 2</b>	Minimum Fresh Air Requirement	<p><i>The Credit is interpreted as follows:</i></p> <p><b>For Mechanically Ventilated Spaces</b></p> <p><i>Demonstrate that the fresh air ventilation in all regularly occupied areas meets the minimum ventilation rates, as prescribed in NBC 2016.</i></p> <p><b>For Air-Conditioned Spaces</b></p> <p><i>Demonstrate that the fresh air ventilation in all regularly occupied areas meets the minimum ventilation rates, as prescribed in ASHRAE Standard 62.1 - 2016.</i></p>		

Credit Number / Location		Addendum																											
IEQ Credit 5	Indoor Air Quality	<i>Credit compliance is modified as follows:</i>																											
		<b>Compliance Options</b>																											
		<b>Option-1: Monitor IAQ Parameters</b>																											
		<b>Point: 1</b> Measure IAQ parameters in all regularly occupied spaces and ensure that 80% of the measurements are well within the threshold values of Class C as specified in Annexure-VI. Points are awarded as follows:																											
		<table><tr><th>IAQ Parameters</th><th>Points</th></tr><tr><td>IAQ parameters (CO<sub>2</sub>, PM 2.5, CO, TVOC)</td><td>1</td></tr></table>	IAQ Parameters	Points	IAQ parameters (CO <sub>2</sub> , PM 2.5, CO, TVOC)	1																							
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IAQ parameters (CO <sub>2</sub> , PM 2.5, CO, TVOC)	1																												
IEQ Credit 6	Daylighting	<i>Credit compliance is modified as follows:</i>																											
		<b>Compliance Options:</b>																											
		The project shall provide adequate daylighting to meet or exceed the Useful Daylight Illuminance (UDI) between 100 lux and 2000 lux for at least 15% of the total floor area (regularly occupied spaces) for 50% of the potential daylit time in a year. The project may choose one of the following options to show credit compliance.																											
		<b>Table 12 Daylighting for regularly occupied spaces</b>																											
		<table><tr><th colspan="3">Percentage of regularly occupied space meeting UDI requirement</th><th rowspan="2">Points</th></tr><tr><th>Multi floor</th><th>Combination</th><th>Single floor</th></tr><tr><td>≥ 10%</td><td>≥ 20%</td><td>≥ 30%</td><td>1</td></tr><tr><td>≥ 15%</td><td>≥ 25%</td><td>≥ 35%</td><td>2</td></tr><tr><td>≥ 20%</td><td>≥ 30%</td><td>≥ 40%</td><td>3</td></tr><tr><td>≥ 25%</td><td>≥ 35%</td><td>≥ 45%</td><td>4</td></tr><tr><td>≥ 30%</td><td>≥ 40%</td><td>≥ 50%</td><td>5</td></tr></table>	Percentage of regularly occupied space meeting UDI requirement			Points	Multi floor	Combination	Single floor	≥ 10%	≥ 20%	≥ 30%	1	≥ 15%	≥ 25%	≥ 35%	2	≥ 20%	≥ 30%	≥ 40%	3	≥ 25%	≥ 35%	≥ 45%	4	≥ 30%	≥ 40%	≥ 50%	5
		Percentage of regularly occupied space meeting UDI requirement			Points																								
		Multi floor	Combination	Single floor																									
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