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GreenPro Certification Standard for

“Tiles”

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1. Introduction

The construction industry is one of the fastest growing sectors in India contributing significantly to the economic growth. At the same time, the rapid growth of the sector poses a host of challenges for preserving the environment and health of occupants. The Green Building Movement spearheaded by the Indian Green Building Council (IGBC) has enabled the construction industry to incorporate Green Building concepts for the enhanced economic, health and environment performance of buildings.

Thus far, the Council has been instrumental in enabling 5.29 Billion Sq. of green buildings in the country. The Green Building market growth has created demand for Green products & services. The demand is expected to grow exponentially in the future.

Against this background, CII-Sohrabji Godrej Green Business Centre (CII-Godrej GBC) has launched the with the support of all the stakeholders including product manufacturers, standard developers, architects, Green building developers, conformity agencies etc.

The key objective of the council is to facilitate Green product market transformation in India through 'Green Product Certification'.

The initial focus of the council will be on Green building products and related technologies. Over a period of time, the council will expand its focus to other areas such as Industrial products, consumer items, services etc.

This certification is applicable for all Tile manufacturing units.

Why GreenPro Certification?

The GreenPro Certification is a tool for facilitating Green Product market transformation in the country. The GreenPro Certification is expected to:

1. Enable green building projects in selecting the right product and equipment
2. Increase the market demand for the Green products
3. Put a system in place for a product to be called 'green'

2. GreenPro Certification – Life Cycle Approach

The Green Products Rating adopts a holistic approach based on the 'Life Cycle' of the product. The rating system encourages the product manufacturers to implement measures that would result in environmental, health and wellbeing benefits at the following stages of the life cycle of the products.

1. Product Design
2. Raw materials
3. Manufacturing Process
4. Product Performance during use
5. Disposal / Recycling

3. Benefits

GreenPro certification benefits both the product manufacturers and the users. The benefits are both tangible and intangible.

<u>For Product Manufacturers</u>

Some of the benefits of GreenPro Certification for the product manufacturers are highlighted below:

1. GreenPro Certification differentiates the Green product from the competition
2. Increases the market reach out with credible and precise information on the Green features of the products
3. Enables Green product Innovation
4. Increases resources conservation through enhanced energy efficiency, water efficiency, use of renewable energy, minimization waste etc., during the manufacturing process and hence increase in profitability
5. Acts as a driver for achieving environment excellence
6. Complements National & International Green Building Certification systems

For Users

Use of rated Green Tiles leads to significant tangible and intangible benefits for the end users (Developers and Contractors).

Some of the benefits for the users are highlighted as below:

1. Recognition and credits for achieving national and international Certification for the Green Buildings
2. Improved product performance during use to reduce resource consumption and environmental impacts
3. Time and effort in carrying out due diligence in selecting a green product is saved
4. Ensures Toxic and hazardous substances free products which in turn decrease "health and wellbeing" risks of the users

4. National Priorities addressed in Certification

GreenPro Certification addresses the following which are priorities of the Government at the National level:

Water:

Water is a major concern in most part of the country. Implementation of water efficiency measures and "zero Liquid Discharge" are being encouraged to address the water related issues.

Land:

Availability of land and increase in land pollution are major areas of concern. The Certification system demands for increased recycling of material after use which would result in reduction in landfills and hence reduction in land pollution.

Energy Efficiency:

The Certification system encourages the product manufacturers to adopt energy efficiency improvement measures and reduce their energy consumption which is in line with the National Mission on Enhanced Energy Efficiency.

Renewable Energy:

The Certification advocates compliance with Renewable Purchase Obligation (RPO) and encourages product manufacturers to invest in renewable power generation. This is in line with Government of India's objective of increasing the contribution of renewable power sources.

A combination of improving energy efficiency and the use of renewable energy leads to support the government's efforts on Climate Change issues.

5. Development of GreenPro Certification Standards

GreenPro Certification applies product specific **'Certification Standards'** for evaluating the products. The Certification standards are developed with the support of respective product committees formed under the aegis of Green Products and Services Council.

The product committee involves all major stake holders related to the respective product category including product manufacturers, standard setters, conformity agencies, architects, users *et al.* The product committee is led by an expert who is also an unbiased specifier.

5.1 Features of GreenPro Certification

The Certification system follows prescriptive as well as performance based approach for evaluating a product. The Certification calls for demonstration of product performance through testing as per specified standards and implementation of measures at every stage of the Life Cycle of the product, leading to clearly measurable environmental benefits.

The Certification system evaluates green features for products based on various performance parameters grouped under the following Credit Modules.

1. **Product Design:** The Certification necessitates the manufacturer to demonstrate its top management commitment towards environmental performance improvement of the product.

2. **Product Performance:** The required performance parameters of the product need to be demonstrated through product testing as per the specified standards.

3. **Raw Materials:** The Certification demands for efforts to bring down the use of virgin materials through recycling and elimination of toxic and hazardous content in the input materials for product manufacturing.

4. **Manufacturing Process:** The green product Certification recognizes the efforts taken by the product manufacturer to reduce the resource consumption during the manufacturing process

5. **Waste Management:** The Certification calls for efforts to minimize the wastes or safer disposal of the wastes generated during manufacturing process

6. **Life Cycle Approach:** The Certification encourages the product manufacturer to carry out Life cycle analysis for the products and implement measures based on the impact analysis.

7. **Product Stewardship:** The Certification recognizes the measures implemented by the product manufacturers to reduce environmental and health impacts in product transportation, use and recycling / product disposal

8. **Innovation:** The Certification recognizes the innovative measures implemented by the product manufacturers which had resulted in substantial reduction in environment impact exceeding the threshold level specified in the Certification standard.

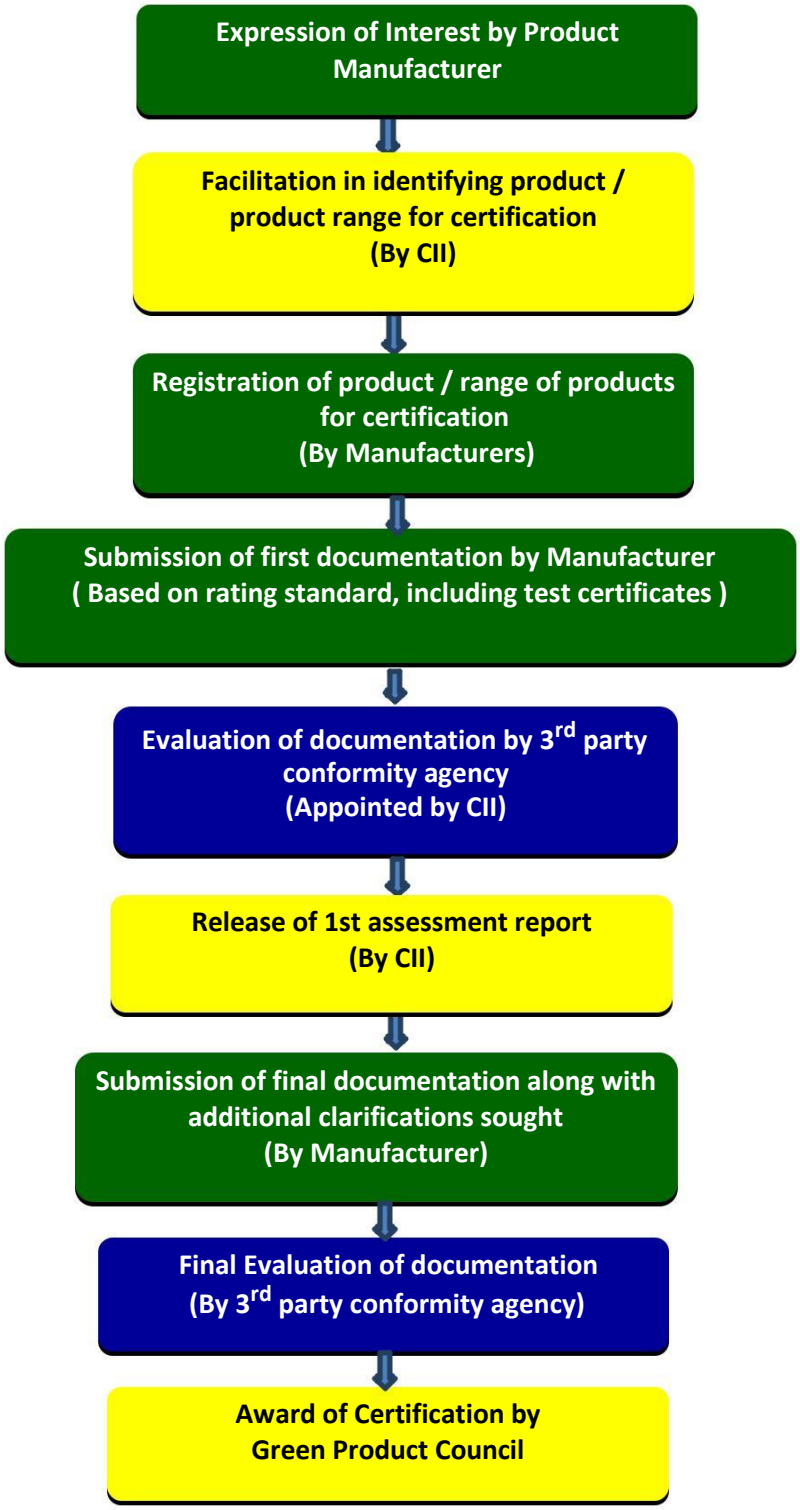
The approach and the Credit Modules for evaluation of products remain by and large the same for all the product categories. However, the credits as part of the individual Credit Modules and the weightage will vary depending upon the product categories and their significance.

A Product needs to comply with certain specified mandatory requirements. The mandatory requirements will vary depending upon the product category.

The threshold limit of all the credits is 100. The product manufacturers can apply for the Credits depending upon the applicability and gain credit points for the Certification.

6. *Methodology of Certification*

The step by step methodology for the Certification is mentioned below.



6.1 Product testing

The Green Product Certification calls for testing of select product parameters for the award of Certification. The product parameters will vary depending upon product categories. Wherever testing of the products is specified, the Certification system also specifies the testing standards and the requirements.

The product manufacturers can carry out the product testing in any of the Laboratories accredited by the **National Accreditation Board for Testing and Calibration Laboratories (NABL)** according to the specified standards and produce the test certificates with the test results for further evaluation.

If the product testing has been already carried out in an NABL accredited laboratory owned by the product manufacturer, the product manufacturer has to submit the details of the test procedures & methodology for verification.

If the product testing needs to be carried out outside the country, the laboratory should have been accredited by the accrediting agency recognized by the Government of the respective country or an accrediting agency which is a member of international bodies such as International Laboratory Accreditation Co-operation (ILAC), Asia Pacific Laboratory Accreditation Co-operation (APLAC) etc.

6.2 Evaluation by 3rd party Conformity Agency

The document submitted by the product manufacturer will be evaluated by a 3rd party conformity agency appointed by CII-Godrej GBC.

Conformity agency is a competent 3rd party agency for carrying out product conformity assessment for various products which would involve Product testing, inspection, factory audits and documentary review.

7. Green product Certification

A product will be certified depending upon the number of credit points achieved based on the evaluation of 3rd party conformity agency.

The maximum achievable credit points are 100. A product will be certified as 'Green Product' if it achieves 50 or more credit points in the evaluation.

8. Validity of the Certification

GreenPro Certification is valid for 2 years from the date of award of the Certification with a yearly review for the product / product range.

At the end of the validity period, the product manufacturer needs to apply for the renewal of the Green product Certification.

Before the end of the validity period, the product manufacturer can attempt for higher level of Certification after implementing sufficient measures for gaining credit points. However, the attempt can be made only after a year from the date of award of the product Certification.

9. Fee for Green product Certification

The fee details are available on website www.greenbusinesscentre.com. The fee details can also be obtained through the contact details mentioned in the manual.

10. Updation of the Standard

GreenPro Certification Standard for Tiles is the result of Green Product and Services council's efforts towards facilitating market transformation in Green Building Products. The council's endeavour is to periodically update the standard and raise the bar.

The updating of the standard will be taken up with the support of the product committee on consensus basis. Updates or addenda will be incorporated and formally communicated to the applicants.

GREENPRO CERTIFICATION STANDARD

FOR TILES

Summary of Credits & Points Distribution

GreenPro Certification - Tiles (Floor and Wall)		
Credits	***Criteria***	**Credit Points**
1	**Product Design**	
Credit 1.1	*Eco - Vision*	1
	Strategies adopted, resource allocation, stake holder engagement, Implemented measures & Impacts	
	- At design stage of the product	2
	- At manufacturing stage of the product	2
	Sub Total	**5**
2	**Raw Material**	
Credit 2.1	***Prohibited Substances***	10
	Lead and Cadmium to be tested against ISO 10545-15 or equivalent ASTM standards	
Credit 2.2	***Recycled content***	15
	Recycled content > 10%≤ 12%	3
	Recycled content > 12%≤ 14%	5
	Recycled content > 14%≤ 16%	7
	Recycled content > 16%≤ 18%	9
	Recycled content > 18%≤ 20%	11
	Recycled content > 20%≤ 25%	13
	Recycled content > 25%	15
Credit 2.3	***Regional material***	15
	Regional material content by weight > 30%≤ 40%	3
	Regional material content by weight > 40%≤ 50%	5
	Regional material content by weight > 50%≤ 60%	7
	Regional material content by weight > 60%≤ 70%	9
	Regional material content by weight > 70%≤ 80%	11
	Regional material content by weight > 80%≤ 90%	13
	Regional material content by weight > 90%	15
	Sub Total	***40***
3	**Manufacturing Process**	
Credit 3.1	***Energy Efficiency***	**12**
	Monitoring the Energy Consumption	2
	Reduction in specific energy consumption ≥ 5%	5
	Reduction in specific energy consumption ≥ 10%	8
	Reduction in specific energy consumption ≥ 15%	12

Credit 3.2	***Water Efficiency***	**8**
	Monitoring the Water Consumption	1
	Reduction in specific water consumption	4
	Implementation of rain water harvesting	2
	Beyond the fence initiatives	2
Credit 3.3	***Renewable Energy***	**5**
	On-site renewable energy generation (Both electrical & thermal)	
	≥2.5% ≤ 5% substitution	2
	> 5% substitution	5
	Sub Total	**25**
4	**Waste Management**	
Mandatory Requirement*	*Solid, Liquid and Gaseous Wastes : Compliance to local regulations*	
Credit 4.1	*Waste Utilisation & Disposal*	
	Non Hazardous waste	
	10% reduction in disposal of waste per unit of production	1
	15% reduction in disposal of waste per unit of production	2
	Hazardous Waste	
	> 5%reduction in waste going to landfill	1
	> 10%reduction in waste going to landfill	2
	> 15%reduction in waste going to landfill	3
Sub Total		**5**
5	**Life Cycle Approach**	
Credit 5.1	*Life Cycle Analysis*	4
	Measures taken & Quantification of benefits achieved	
	- Implementation of at least one initiative	*1*
	- 2% impact reduction	*2*
	- 4% impact reduction	*3*
	- 6% impact reduction	*4*
	- 8% impact reduction	*5*
	- 10% impact reduction	*6*
Sub Total		***10***
6	**Product Stewardship**	
Credit 6.1	***Education***	**2**
	> 10% of people involved in handling the product after despatch and users	1
	> 20% of people involved in handling the product after despatch and users	2

Credit 6.2	***Quality Management System***	**2**
Credit 6.3	***Extended Producer Responsibility***	**6**
	1) Recycling of faulty pieces	2
	2) Product take back programme	2
	3) Responsible Packaging	2
Sub Total		**10**
7	**Innovation**	
Credit 7.1	*Innovation*	4
Credit 7.2	*Other Credentials, Awards and Accolades*	1
Sub Total		**5**
Total Points		***100***

1.0 Product Design

Credit 1.1: Eco-Vision **Points: 5**

Intent:

To design the product holistically considering all the environmental attributes, so as to minimize associated impacts

Award of points:

Provide the details of the Eco Vision to action as per the following for achieving excellence in design of the products that would result in environmental, health & wellbeing benefits.

- Eco-Vision statement
- Strategies adopted, resource allocation, stake holder engagement, Implemented measures & Impacts
    - At design stage
    - At manufacturing

Credits	Criteria	Credit Points
1	**Product Design**	
Credit 1.1	Eco - Vision statement	1
	Strategies adopted, resource allocation, stake holder engagement, Implemented measures & Impacts	
	- At design stage of the product	2
	- At manufacturing stage of the product	2

Exemplary Performance:

This credit is not eligible for exemplary performance under Innovation Credit

Documentation Required:

1. Eco Vision statement

2. Strategies adopted at design & manufacturing stage to achieve eco vision

3. Proof for resource allocation for improving the design of the product & manufacturing of the product

4. Details of employees and stakeholders engaged

5. Details of measures taken at design stage and manufacturing stage of product with quantification of benefits

2.0 Raw Materials

Credit 2.1 Prohibited Substances **Points: 10**

Intent

Eliminate exposure to heavy metals during manufacturing that can lead to long term health effects either through respiration / direct contact.

Award of Points

Prohibited substances – Lead and Cadmium to be tested against ISO standards

Mandatory Requirement

Product shall not contain lead and cadmium. Product may contain impurities / traces deriving from raw materials. Sum of all metal concentration shall not exceed 0.1% (1000 ppm).

Test the product as per the standards specified below and produce the test certificates.

Lead and Cadmium to be tested against ISO 10545-15 or equivalent ASTM standards.

Documentation Required

Test certificates compliance for the concentration of lead and cadmium present in the tiles.

Credit 2.2 Recycled Content **Points: 15**

Intent

Encourage the use of industrial waste in the manufacturing process of tiles to avoid dumping of industrial waste in landfills, thereby reducing environmental impacts.

Requirement

Utilization of recycled content in manufacturing of tiles for more than 10% by weight will gain credit points as mentioned below.

Award of points

Utilization of industrial waste in manufacturing of tiles for more than 10% by weight will gain credit points as mentioned below.

Credits	Criteria	Credit Points
2	**Raw Material**	
Credit 2.2	**Recycled content**	
	Recycled content ≥ 10 % < 12%	3
	Recycled content ≥ 12% < 14%	5
	Recycled content ≥ 14 % < 16%	7
	Recycled content ≥ 16% < 18%	9
	Recycled content ≥ 18% < 20%	11
	Recycled content ≥ 20 % < 25%	13
	Recycled content ≥ 25%	15

Exemplary Performance:

This credit is eligible for exemplary performance under Innovation Credit, if the industrial waste content in manufacturing of tiles exceeds more than 25% of the raw material content.

Documentation Required:

1. Declaration by the manufacturer highlighting the % of industrial waste by weight in the product or product range applied for rating
2. Details of Annual production and raw materials purchased.

Credit 2.3 Regional Materials **Points: 15**

Intent:

Encourage the use raw materials that are extracted or manufactured locally to reduce fossil fuels for transportation, thereby reducing associated environmental impacts.

Mandatory Requirement

Source the raw materials minimum of 30% of by weight regionally within 250 kms from the place of manufacturing of tiles.

Award of points:

Credit points will be awarded for any additional sourcing of raw materials over and above 30% by weight which is a mandatory requirement.

Threshold limits for the award of credit points for sourcing of regional materials are as below.

Credits	Criteria	*Credit Points*
Credit 2.3	**Regional material**	
	Regional material content by weight > 30 ≤ 40%	3
	Regional material content by weight > 40%≤ 50%	5
	Regional material content by weight > 50%≤ 60%	7
	Regional material content by weight > 60 ≤ 70%	9
	Regional material content by weight > 70%≤ 80%	11
	Regional material content by weight > 80%≤ 90%	13
	Regional material content by weight > 90%	15

Exemplary Performance:

This credit is not eligible for exemplary performance under Innovation Credit.

Documentation Required:

1. Declaration by the manufacturer, highlighting the % of raw materials by weight sourced regionally
2. Details of the sources of the raw materials and the distance from the manufacturing facility.

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3.0 Manufacturing Process

Credit 3.1: Energy Efficiency **Points: 12**

Intent:

Enhance energy efficiency in the manufacturing process of the product, to reduce environmental impacts.

Award of points:

Establish specific energy consumption of the plant and monitor on a continuous basis

Implement energy efficiency improvement projects or technologies for reducing the energy consumption.

Credits	Criteria	Credit Points
3	**Manufacturing Process**	
Credit 3.1	**Energy Efficiency**	**12**
	Monitoring the energy consumption	2
	Reduction in specific energy consumption ≥ 5%	5
	Reduction in specific energy consumption ≥ 10%	8
	Reduction in specific energy consumption ≥ 15%	12

Exemplary Performance:

This credit is eligible for exemplary performance under Innovation Credit, provided, the measures implemented for reducing the energy consumption are innovative and resulted in significant reduction in energy consumption

Documentation Required:

1. Details of annual production, energy consumption & specific energy consumption for the preceding 3 years
2. Details of National Benchmark & International Benchmark data with comparisons
3. Details of implementation of energy efficiency improvement measures with actual benefits achieved

Credit 3.2: Water Efficiency **Points: 8**

Intent:

Incorporate water efficiency measures in the manufacturing process to reduce potable water consumption and implement measures to benefit the society at large.

Award of points:

- Implement water efficient measures & technologies and recycle* waste water generated from the plant to reduce the fresh water consumption.
- Harvest or Capture minimum of 95% of rain water runoff from roof & non roof areas of the manufacturing facility
- Implement measures for improving the availability of portable water beyond the fence for the benefit of the local community

Credits	Criteria	Credit Points
3	**Manufacturing Process**	
Credit 3.2	**Water Efficiency**	**8**
	Monitoring the water consumption	1
	Reduction in water consumption	4
	Implementation of rain water harvesting	2
	Beyond the fence initiatives	2

*Recycling of water can be factored into the reduction in specific water consumption

Exemplary Performance:

This credit is eligible for exemplary performance under Innovation, if the facility achieves the status of “Zero effluent Discharge” (OR)

The measures taken exceed the threshold limits.

Documentation Required:

1. Details of annual water consumption & Specific water consumption for 3 years
2. Details of National Benchmark & International Benchmark data with comparisons
3. Rain water harvesting system installed and quantity of water harvested annually
4. Details of the beyond the fence initiatives and the benefits

Note:
Manufacturing units which are in operation for less than 2 years need to demonstrate a system in place for specific water consumption monitoring and provide the Benchmarking details as highlighted in point no: 2.

Credit 3.3: Renewable Power **Points: 5**

Intent:

Encourage the use of on-site & off site renewable energy sources to reduce the dependence on fossil fuels and their associated environmental impacts.

Award of points:

Install on-site & off-site renewable energy system to reduce dependence on fossil fuels.

Credits	Criteria	Credit Points
3	**Manufacturing Process**	
Credit 3.3	**Renewable Energy**	
	On-site renewable energy generation (Both electrical & thermal)	
	≥2.5% ≤ 5% substitution	2
	> 5% substitution	5

A company is eligible for claiming the allotted points to the threshold level of 5 Credits if they have done exceedingly in either on-site or off site renewable energy generation.

Documentation Required:

1. Details of installation of onsite and offsite renewable power generating sources including the technology, installed capacity and location with photographs of installations.

2. Details of total power consumption in the manufacturing facility and renewable power produced in kWh

3 Alternate Option

GreenCo – Green Company Rating System

To evaluate "How Green a company is", CII has launched the GreenCo rating system for manufacturing unit.

GreenCo advocates a performance based approach. It aims to provide leadership and guidance to businesses on how to implement green strategies. The rating system evaluates green features specific to manufacturing unit against the following performance parameters:

- Energy Efficiency
- Water Conservation
- Renewable Energy
- Greenhouse Gas Emission
- Waste Management
- Material Conservation, Recycling and Recyclability
- Green Supply Chain
- Product Stewardship
- Life Cycle Analysis

The certification levels of GreenCo are as follows:

Level 1	Certified
Level 2	Bronze
Level 3	Silver
Level 4	Gold
Level 5	Platinum

Green Product Rating & GreenCo

The parameters highlighted as part of the module 3.0 - Manufacturing are related to a manufacturing unit and already covered in GreenCo rating. The documentations required and the evaluation procedures are one and the same.

Hence, a Company which has received a GreenCo rating in the past 2 years need not to again submit the documents and apply for the credits as part of the manufacturing module.

Credit points for the manufacturing module will be awarded for a GreenCo company as below.

Level	Points
GreenCo Platinum / Gold	12
GreenCo Silver	8
GreenCo Bronze	4

4. Waste Management

Credit 4.1: Waste Utilization & Disposal **Points: 5**

Intent:

Encourage appropriate handling and disposal of waste during manufacturing, thereby reducing environmental impacts and enhance health & wellbeing of the society. Mandatory Requirement. Compliance to local regulations on solid, liquid and gaseous wastes discharged from the manufacturing location.

Award of points:

Minimize wastes through 'reduce, reuse and recycle' techniques. Reduce waste disposal to landfill

Credits	Criteria	Credit Points
4	**Waste Management**	
Mandatory Requirement*	Solid, Liquid and Gaseous Wastes : Compliance to local regulations	
Credit 4.1	Waste Utilisation & Disposal	**5**
	Non Hazardous waste	
	10% reduction in disposal of waste per unit of production	1
	15% reduction in disposal of waste per unit of production	2
	Hazardous Waste	
	> 5%reduction in waste going to landfill	1
	> 10%reduction in waste going to landfill	2
	> 15%reduction in waste going to landfill	3

Exemplary Performance:

This credit is eligible for exemplary performance under Innovation Credit, if 100% of the waste generated is utilized through innovative ways and means with higher value addition

Documentation Required:

1. Declaration from company highlighting that all the compliance requirements are met as per the local regulations *
2. Details of the following for the preceding 3 year:
    - Waste Generated and their quantity by weight or volume
    - Utilization of the wastes and the process of utilization
    - Wastes handed over to Approved Common Hazardous Wastes Treatment
    - Storage and Disposal Facility (TSDF)

*Note: Company has to produce a copy of the environment statement to the 3rd party conformity agency for assessment purpose during their plant visit

5.0 Life Cycle Approach

Credit 5: Life Cycle Analysis **Points: 10**

Intent:

Identify environmental impact at every stage of the life cycle of the product and initiate measures to reduce such impacts

Award of points: Carry out Life cycle analysis of the product for the boundary conditions of Cradle to Cradle. i.e. From the raw material sourcing to recycling / disposal of the manufactured products.

The product manufacturer can carry out the life cycle analysis with the support of external service provider or with internal expertise using a LCA software tool.

Based on the Life Cycle impact analysis, implement measures for reducing the environmental impacts.

Credits	Criteria	Credit Points
5	**Life Cycle Approach**	
Credit 5	Life Cycle Analysis	4
	Measures taken & Quantification of benefits achieved	
	- Implementation of at least one initiative	1
	- 2% impact reduction	2
	- 4% impact reduction	3
	- 6% impact reduction	4
	- 8% impact reduction	5
	- 10% impact reduction	6

Exemplary Performance:

This credit is eligible for exemplary performance if the implemented measure is innovative and addresses any of the measure that has not been covered as part of the rating system

Documentation Required:

1. LCA study report with the details of the study conducted and impact analysis
2. Details of the measures implemented based on the impact analysis of LCA study and the benefits achieved

6.0 Product Stewardship

Product stewardship advocates that all those involved in the Life Cycle of product share responsibility for reducing its health and environmental impacts with producers bearing the primary responsibility.

In the Green Product Rating, Product Stewardship credit focuses on the following:

- Education for the Stake holders on Green Products for reaping the intended benefits fully
- Quality management system for minimizing the rejection rate after product dispatch
- Extended producer responsibility increasing the recycling or safer disposal

The credit points are allotted for the focus areas as applicable for the individual product categories. In case of tiles only education for the stakeholders has been considered.

Credit 6.1: Education **Points: 2**

Intent:

Educate those involved in handling the product at every stage post-dispatch, so as to reap the intended environmental benefits.

Award of points:

Companies to develop and implement stake holder specific awareness and information sharing programs for reaping the benefits of Green products at every stage of its life cycle.

Credits	Criteria	Credit Points
6	**Product Stewardship**	**2**
Credit 6.1	Education	
	> 10% of people involved in handling the products after dispatch and users	1
	> 20% of people involved in handling the products after dispatch and users	2

Exemplary Performance:

This credit is not eligible for exemplary performance under innovation criteria.

Documentation Required:

1. Details of the stake holder's specific awareness or information dissemination programmes about the Green Products, its features and their roles to reap the intended benefits
2. Estimation of % of stake holders covered

Credit 6.2: Ensure Quality & Minimize Rejection Rate **Points: 2**

Intent:

Minimize rejection rate during dispatch & storage and ensure that the quality of product is maintained till delivery to the end user.

Compliance options:

Companies to have a Quality management system to ensure that the quality of the products is maintained as per the requirements during dispatch and storage, until the final delivery. Quantify, record and monitor the rejection of the products after the dispatch.

Credits	Criteria	Credit Points
6.2	**Product Stewardship**	**2**
Credit 6.2	Quality Management System	2

Exemplary Performance:

This credit is not eligible for exemplary performance under innovation criteria

Documentation Required:

1. Details of the quality management system to bring down the rejection rate after the dispatch of the products
2. Details of the quantify of product dispatched and the rejection rate

6.3 Extended Producer Responsibility **Points: 6**

Intent:

To encourage manufacturers to institute a mechanism for product take-back for recycling or safe disposal at the end of useful life.

Compliance options:

The company is encouraged to have a mechanism for product take back which would involve:

- Collection
- Environmentally sound treatment of collected product
- Use of product & materials in the form of reuse or recycling

The company has to employ an environmentally friendly procedure or method to dispose of products that cannot be reused or recycled. The disposal method to comply with the Law of the country

Credits	Criteria	Credit Points
	Extended Product Responsibility	**6**
Credit 6.3	Extended Producer Responsibility	
	Recycling of faulty pieces	2
	Product take back programme	2
	Responsible Packaging	2

Exemplary Performance:

This credit is not eligible for exemplary performance under innovation criteria.

Documentation Required:

1. Details of recycling of the waste produced in the plant
2. Details of the mechanism in place for product take back
3. Details of packaging used for the tiles, measures implemented to use eco-friendly packaging materials

7.0 Innovation

Credit 7: Product Innovation **Points: 5**

Intent:

Recognize initiatives that are not addressed in this rating system but have a profound impact in protecting the environment.

Compliance options:

1. As part of the credit, the product manufacturer can apply for four innovative measures. If the implemented measures meet any one of the following criteria mentioned below can be considered as an innovative measure.

- Any environmental measure not covered in the rating but addressed by the manufacturer
- Any measure surpassing the credit threshold of any of the credits included as part of this rating

2. Receipt of Eco labels, Awards & accolades

The points for innovative measures are as follows:

Credits	Criteria	Credit Points
7	**Innovation**	
Credit 7.1	Innovation : Each innovative measure implemented at any stage of Life cycle will gain 1 Credit Point	4
Credit 7.2	Other Credentials, Awards and Accolades	1

Documentation Required:

1. Details of the innovative measures highlighting the Intent and the measured Impacts
2. Copy of the certificates for the details of Eco-labels, Awards & accolades obtained