





**Pilot Version** 

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CII-Sohrabji Godrej Green Business Centre

#### I Introduction

Businesses across the globe have begun to realize the impending impact of their actions on the environment and its contribution to the phenomenon of climate change. The achievement of higher growth with optimal use of resources and better emission and discharge standards is need of the hour.

Several companies have taken proactive initiatives to integrate environmental concerns in their businesses and have improved the environmental performance and business competitiveness.

Pursuing "Green" has become the new driver for companies on the quest towards growth, competitiveness and global excellence. Numerous benefits have been achieved by companies restructuring their various business processes towards ecological sustainability.

#### Need for Development of GreenCo Rating for sugar sector

Companies across the globe have taken many initiatives to reduce their ecological footprint, in several areas such as energy efficiency, water, GHG, waste reduction, etc.

With number of businesses going green on the rise and several initiatives on different areas evokes a spark in an individual's mind on "How Green is the Company". A clear holistic mechanism is presently not available for evaluating the performance of companies on the ecological front. Against this background, CII, through an extensive stakeholder consultation and interaction with experts have developed the 'Greenco rating' for evaluating the 'greenness of companies'.

The GreenCo Rating is a framework to define and assess the performance of a company on Green front. The GreenCo Rating is a framework to monitor and sustain green initiatives and guide the companies towards achieving excellence in Green. CII have extended this voluntary framework for sugar sector with all the GreenCo parameters and credits fine tuned to the sector.

#### Scope of the Rating

The proposed rating would cover sugar plants, sugar plants with cogeneration facility, and sugar plants with cogeneration facility and distillery. The rating would be applicable to existing facility and new facility.

### II Background of the GreenCo Rating for sugar sector

CII has been the pioneer organization in promoting green concepts across the country. To encourage industry tread this path, CII initiated the voluntary programme "Mission on Sustainable Growth" to facilitate ecologically sustainable business growth.

As a first step towards this direction, a CII - Code for Ecologically Sustainable Business Growth was developed aiming to involve the top management of companies and seek voluntary commitments towards reducing intensity of the consumption of energy, water and other natural resources and promote ecologically sustainable growth in their companies.

The initiative launched by CII in 2008 has evoked great interest from the Indian Industry. More than 450 organizations in India are voluntarily committed to this initiative.

In continuation to this initiative, CII launched GreenCo rating for companies. 26 companies are 2GreenCo rated and at present, 100 companies are working on the rating. Of the GreenCo rated companies, 6 companies have reported annual savings of Rs. 104 million/year.

This rating extended for sugar sector will act as a holistic framework to assess and evaluate the performance of the company's activities on the green front.

#### III Benefits of the GreenCo Rating for sugar sector

Application of GreenCo rating for sugar sector would address national priorities leading to benefits, such as energy efficiency, water conservation, renewable energy, waste management, green supply chain, etc.,. Some of the major benefits are highlighted below:

- **Energy Efficiency-** Businesses consume energy for various reasons like operating machinery, running computers, office maintenance etc. The GreenCo rating calls for energy monitoring and accounting system as well as technology that is less energy intensive. The GreenCo rating would help the organizations to benchmark themselves at the national / international level, guides them towards achieving national / global levels of energy efficiency. Involvement of employees and building capability of relevant employees is also part of the rating.
- Water Conservation- Our requirements for water to meet our fundamental needs and our collective pursuit of higher living standards, coupled with the need for water to sustain our planet's fragile ecosystems, make water unique among natural resources. According to World Bank estimates, by 2035, it is projected that 3 billion people will be living in conditions of severe water stress. To ensure sustainability in the long run, industries should not be seen as competing for water, by the society. The GreenCo rating promotes sustainable use of water through "reduce, recycle, reuse and reclaim" strategies. It prescribes metering to monitoring water consumption, rain water harvesting and water use reduction strategies. The rating also encourages companies to take efforts for groundwater recharge beyond the fence.

- **Renewable Energy** The sugar industry exports renewable energy to the Grid and has the uniqueness of contributing to the Green power in the country. The GreenCo Rating for sugar sector encourages the companies to increase the export of renewable energy to the grid both during season and off-season. The ultimate goal is to increase the green power generation in the country.
- Waste Management- The GreenCo Rating recommends waste management strategies that enable businesses to identify and segregate different types of waste. The rating presents guidelines on waste inventory study to enable businesses to quantify data on amount of waste generated and hence empower them to adopt suitable waste disposal strategies. The rating also recommends waste reduction strategies. For businesses, this means that the work area is healthy and the clean surroundings present an inviting ambience for prospective customers. The reduction of waste generation also presents an excellent business case for the organization to pursue.
- Material Conservation, Recycling and Recyclability- Material conservation and recycling is closely related to waste management. It is self-evident that the more we conserve and recycle/ re-use, the less waste we generate. Apart from this, by reusing materials there is a definite saving in costs. The cost savings is in the form of reduced material costs (as we reuse the same material) as well reduced waste disposal cost (since lesser waste is generated). The rating promotes recovery of material & improving yield, reduction in usage of consumables and reuse, recycling of packing materials.
- Green Supply Chain- As environmental awareness among consumers increase, the demand for products with lower environmental footprint will also increase. In keeping with consumer sentiments, businesses will have to not only green their operations, but also across their supply chain. This calls for a rethink of the business's current procurement process. Studies have shown that improved green supply chain process means lower waste-disposal, lower environmental impact at the vendor premises and, often, reduced materials costs. The GreenCo rating aims to make businesses aware of these benefits to their bottom-line so that they are encouraged to implement green supply chain processes.
- **Green House Gases Reduction** The global average concentrations of various greenhouse gasses in the atmosphere reached their highest levels ever recorded, and continue increasing. The combustion of fossil fuels from human activities and land-use changes are largely responsible for this increase. The ill effects of green house gases generated by the consumption of fossil fuels are very well known. The GreenCo rating encourages companies to inventorize scope 1, scope 2 and scope 3 emissions and reduce the emissions.
- **Product Stewardship** Product Stewardship is 'Extended Producer Responsibility' over the Life cycle of a product beyond production, during distribution, use and disposal of products. The rating encourages businesses to undertake various initiatives involving farmers, research institutions to improve productivity and reduce environmental impacts (cane yield, soil quality, reduced use of pesticides, encouraging organic fertilizers etc). It guides businesses to perform a comprehensive analysis of the products/process on environmental impacts and explore options for reducing such impacts

• Life Cycle Assessment – Several initiatives are being taken to reduce the environmental impact of products at different stages – production, distribution, use and disposal. There is a need to have an evaluation of the impact of the product throughout its life cycle, so that ultimately, only those with minimum life-cycle impact are made available. The life-cycle assessment parameters such as GHG, toxicity, material and water can guide organizations to move towards products of lower impact. The rating facilitates in this direction.

#### **Business Specific Benefits Include:**

- 1. Communicates the corporate commitment towards environmental sustainability to all stake holders
- 2. Enhances the competitiveness of the company through resource conservation and improved efficiency
- 3. Current Standing- The rating is an easy way for businesses/ companies to compare themselves against their peers or competitors
- 4. Businesses can use the recommendations of the rating to develop a long term plan to improve competitiveness and be ecologically sustainable
- 5. Most governments are prescribing strict environmental compliance guidelines for companies. Companies that accept the GreenCo rating will have a 'head start' in complying with these requirements and thus have an advantage over non-complying competitors
- 6. With consumer awareness related to the environment growing at a fast pace, GreenCo rated companies will enjoy considerable consumer support and goodwill
- 7. Many business owners/ managers wish to adopt environmentally healthy practices but are not aware of what needs to be done. The rating can act as an excellent guide for such businesses

#### IV GreenCo Rating for sugar sector: Overview & Process

The GreenCo Rating for Companies advocates a performance based approach. It aims to provide leadership and guidance to businesses on how to implement green strategies. These strategies are designed based on an iterative and consultative process that includes building partnerships with stakeholders and employing their cumulative knowledge and experience to address issues related to ecological sustainability. The rating employs a holistic approach, wherein, it not only advises businesses on strategy and actions required but also provides mechanisms to quantify the impact of such actions and make course corrections if required.

The rating evaluates green features for companies 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
- Other Areas (Ventilation, Green Belt, Site Location & Innovation)

Weightages (points) are assigned to varying degrees of goals that are set for each of these parameters. For example, the points are awarded for reducing energy consumption. But points awarded will be higher for a business that demonstrates a higher degree of reduction in energy consumption compared to another business that demonstrates a lower degree of reduction in energy consumption. The companies at various levels of efficiency (for example; Top 5 energy efficient plants in the world) are also suitably recognized in this rating.

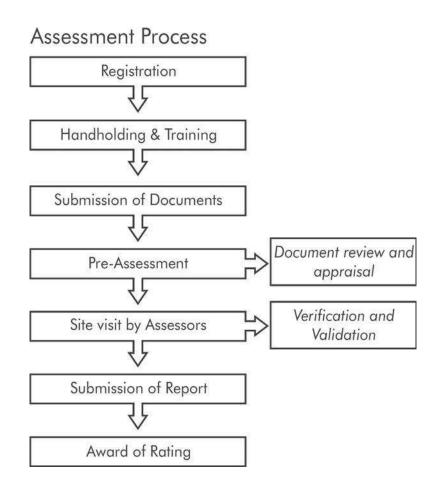
As a first step the GreenCo rating for sugar sector is being launched on a pilot mode.

#### **GreenCo Rating for Sugar Sector Registration**

Companies interested participating in Greenco Certification must first register with CII – Godrej GBC. Projects can be registered on CII – Godrej GBC website (www.greenbusinesscentre.org) under 'GreenCo Rating for Companies'. Registration is the initial step, which helps establish contact with CII – Godrej GBC and provides access to the required documents, templates, important communications and other necessary information.

#### **Assessment Process**

Subsequent to the registration, the CII team will communicate with the plant team to explain the detailed process of the assessment. The various steps involved in the assessment process are detailed as under:



The threshold criteria for certification levels are as following:

| Level   | Points           | Greenco Rating |
|---------|------------------|----------------|
| Level 1 | 350 – 449 points | Certified      |
| Level 2 | 450 – 549 points | Bronze         |
| Level 3 | 550 – 649 Points | Silver         |
| Level 4 | 650 – 749 Points | Gold           |
| Level 5 | > 750 points     | Platinum       |

### **Criteria and Weightages**

| S.No | Parameters   | Suggested Weightages<br>(Points) |
|------|--|----------------------------------|
| 1    | Energy Efficiency                                  | 150                              |
| 2    | Water Conservation                                 | 100                              |
| 3    | Renewable Energy                                   | 150                              |
| 4    | Greenhouse Gas Emissions                           | 75                               |
| 5    | Waste Management                                   | 75                               |
| 6    | Material Conservation, Recycling and Recyclability | 100                              |
| 7    | Green Supply Chain                                 | 100                              |
| 8    | Product Stewardship                                | 75                               |
| 9    | Life Cycle Assessment                              | 75                               |
| 10   | Others (Ventilation, Site Selection & Innovation)  | 100                              |
|      | Total  | 1000                             |

A training program would be organised for the companies registered for the Greenco Rating. The objective of the training program is to aid the companies understand the rationale behind the various credit points, explain them which are relevant to the company and make the process of assessment easier for the company. The company submits the filled up rating questionnaire to CII.

Subsequent to the receipt of the assessment questionnaire, site visit will be conducted by a team of independent assessors and representatives of CII. The number of site visits and assessors will be decided based on the size of the company / unit being assessed. The objective of site visit is to validate the data submitted as well as present to the company on improvement areas and opportunities.

The assessor team will report their findings to the judges' panel, which will review and award the rating to the company. The company also will have an opportunity to appeal once for a higher rating with the judges' panel. The judges' panel will then revisit the assessment and award the final rating. The rating awarded will be final.

The rating will be periodically communicated and will be in the website of CII – Godrej GBC. There would also be an annual review to revalidate the rating as well as guide the organisation towards improvement. The rating is valid for 3 years and at the end of 3 years the companies will have to apply for the rating again. In between, if the company feels that they have improved their performances they can apply for a fresh rating. During the period of rating, the companies can use 'GreenCo' certified company in their letterheads and other corporate communication.

| GreenCo Rating for Sugar sector - Checklist |   |        |    |
|---|---|--------|----|
| Credit                                      | Credit Description  | Points |    |
|   | Energy Efficiency (Max: 150 Points)   |        |    |
| EE Mandatory<br>Requirement - 1             | Energy Policy   |        |    |
| EE Mandatory<br>Requirement - 2             | Energy Management Cell & Energy Manager   |        |    |
| EE Credit 1                                 | Leadership and Strategy   | 20     |    |
| EE Credit 1.1                               | Target Setting  |        |    |
|   | Internal benchmarking- 5 points   |        | 5  |
|   | National benchmarks / World class benchmarks -<br>additional 5 points   |        | 10 |
| EE Credit 1.2                               | Financial Resource Allocation at the beginning of the year  |        | 5  |
| EE Credit 1.3                               | Monthly reviews pertaining to Energy Efficiency by top management   |        | 5  |
| EE Credit 2                                 | Employee Involvement & Capacity Building  | 15     |    |
| EE Credit 2.1                               | Awareness creation and strategies adopted for employee involvement  |        | 5  |
| EE Credit 2.2                               | Capacity building and training program  |        | 5  |
| EE Credit 2.3                               | Energy scorecard  |        | 5  |
| Credit 3                                    | Energy Management System  | 15     |    |
| EE Credit 3.1                               | Energy monitoring for equipment (Electrical & thermal) having ≥ 10% of total energy consumption                   |        | 5  |
|   | Energy monitoring for equipment (Electrical & thermal) having ≥ 5% of total energy consumption-additional 5 marks |        | 10 |
| EE Credit 3.2                               | Daily Variance Analysis & Correction  |        | 5  |

| Credit 4                      | 3 years<br>If SEC o<br>eligible | ion in SEC (both electrical and steam) in last<br>f the plant is national benchmark, plant is<br>for maximum points under this credit<br>tent wise efficiency improvement (the | 50  |    |   |
|-------------------------------|---------------------------------|--|-----|----|---|
|                               |                                 | are awarded based on the energy<br>nance and efficiency analysis for all the   |     |    |   |
| Credit-5                      |                                 | equipment)   | 25  |    |   |
| Credit 6                      | Benchn                          | narking with World Class Performance   | 25  |    |   |
|                               | Among<br>nationa                | top 10 Units / Top 10% of the units at<br>I level  |     | 5  |   |
|                               | Among<br>level                  | top 5 units / Top 5% of the units at national  |     | 10 |   |
|                               | -                               | top 20 Units / Top 20% of the units at<br>tional level   |     | 15 |   |
|                               | -                               | top 10 units / Top 10% of the units at<br>tional level   |     | 20 |   |
|                               | -                               | top 5 units / Top 5% of the units at<br>tional level   |     | 25 |   |
|                               | Sub tot                         | al   | 150 |    |   |
|                               |                                 | Water Conservation (Max: 100 Points)   |     |    |   |
| WC Mandatory<br>Requirement-1 |                                 | Water Policy   |     |    |   |
| WC Mandatory<br>Requirement-2 |                                 | Water Manager & Accountability   |     |    |   |
| WC Credit 1                   |                                 | Leadership and Strategy  |     | 10 |   |
| WC Credit 1.1                 |                                 | Target setting & action plan   |     |    | 5 |
| WC Credit 1.2                 |                                 | Monthly reviews on water conservation by to management   | р   |    | 5 |

| WC Credit 2   | Employee Involvement & Capacity Building  | 10 |    |
|---------------|---|----|----|
| WC Credit 2.1 | Strategies adopted for employee involvement and awareness creation                                |    | 5  |
| WC Credit 2.2 | Training programme and capacity building  |    | 5  |
| WC Credit 3   | Metering & Overall Monitoring   | 5  |    |
| WC Credit 3.1 | Water Metering at critical locations, accounting 80% total water consumption                      |    | 5  |
|               | Reduction in Specific Fresh Water Consumption in Last 3 years                                     |    |    |
| WC Credit 4   | If SWC of the plant is national benchmark, plant is eligible for maximum points under this credit | 30 |    |
|               | Reduction in specific fresh water consumption   |    |    |
|               | ≥ 5% reduction  |    | 5  |
|               | ≥ 10 % reduction  |    | 10 |
|               | ≥ 15% reduction   |    | 15 |
|               | ≥ 20% reduction   |    | 20 |
|               | ≥ 25% reduction   |    | 25 |
|               | ≥ 30% reduction   |    | 30 |
| WC Credit 5   | Rain water Harvesting in roof and non-roof areas  | 20 |    |
|               | ≥ 10% potential utilized  |    | 5  |
|               | ≥ 25% potential utilized  |    | 10 |
|               | ≥ 50% potential utilized  |    | 15 |
|               | ≥ 75% and above potential utilized  |    | 20 |

| WC Credit 6              | Augmentation of ground water beyond fence  | 25  |    |
|--------------------------|--|-----|----|
|                          | Atleast 1 project implemented on augmentation of ground water  |     | 5  |
|                          | 1: 1 recharging/collection   |     | 10 |
|                          | 1: 2 recharging/collection   |     | 15 |
|                          | 1: 3 recharging/collection   |     | 20 |
|                          | 1: 4 recharging/collection   |     | 25 |
|                          | Sub total  | 100 |    |
|                          | Renewable Energy (Max: 150 Points)   |     |    |
| RE Mandatory Requirement | Renewable Energy Policy (can be part of energy/environment policy)   |     |    |
| RE Credit 1              | Leadership and Strategy - Setting targets and allocating resources to maximize the export of Renewable Energy      | 10  |    |
| RE Credit 2              | Power export to Grid : The points are awarded based<br>on kWh exported per ton of cane crushed - 5 to 70<br>points | 70  |    |
| RE Credit 3              | Power export to Grid during off-season through<br>Renewable Energy   | 70  |    |
|                          | ≥ 5% of power export through RE during off-season  |     | 5  |
|                          | ≥ 10% of power export through RE during off-season   |     | 10 |
|                          | ≥ 20% of power export through RE during off-season   |     | 20 |
|                          | ≥ 30% of power export through RE during off-season   |     | 30 |
|                          | ≥ 40% of power export through RE during off-season   |     | 40 |
|                          | ≥ 50% of power export through RE during off-season   |     | 50 |
|                          | ≥ 60% of power export through RE during off-season   |     | 60 |
|                          | ≥ 70% of power export through RE during off-season   |     | 70 |
|                          | Sub-Total  | 150 |    |

|                                  | Green House Gases (Max: 75 Points)  |    |    |
|----------------------------------|---|----|----|
| GHG Mandatory<br>Requirement - 1 | GHG Emission Inventorisation of Scope 1 and Scope 2                       |    |    |
| GHG Credit 1                     | GHG emission intensity reduction targets - Short term<br>& Long term      | 10 |    |
| GHG Credit1.1                    | Setting short term & long term GHG targets                                |    | 5  |
| GHG Credit1.2                    | Developing detailed action plan for achieving the targets                 |    | 5  |
| GHG Credit 2                     | Employee Involvement & Capacity Building                                  | 10 |    |
| GHG Credit 2.1                   | Awareness creation for all employees on climate change and GHG mitigation |    | 5  |
| GHG Credit 2.2                   | Training program and Capability building programmes to relevant employees |    | 5  |
| GHG Credit 3                     | GHG Management Systems  | 10 |    |
| GHG Credit 3.1                   | Quality Management - GHG Emission Inventorisation                         |    | 5  |
| GHG Credit 3.2                   | Monitoring system for GHG emission and mitigation                         |    | 5  |
| GHG Credit 4                     | GHG Emission Intensity Reduction (ton of CO2/Ton of cane crushed)         | 25 |    |
|                                  | ≥ 5% in last 3 years  |    | 5  |
|                                  | ≥ 10% in last 3 years   |    | 10 |
|                                  | ≥ 15% in last 3 years   |    | 15 |
|                                  | ≥ 20% in last 3 years   |    | 20 |
|                                  | ≥ 25% in last 3 years   |    | 25 |
| GHG Credit 5                     | GHG Scope 3 Inventorization and reduction achieved                        | 20 |    |
|                                  | Scope 3 inventorization   |    | 10 |
|                                  | Reduction achieved in Scope 3 emissions in last 3 years                   |    | 10 |
|                                  | Sub total   | 75 |    |

|                               | Waste Management (Max: 75 Points)   |    |    |
|-------------------------------|---|----|----|
| WM Mandatory<br>Requirement-1 | Waste collection, segregation and disposal<br>mechanism in place and Waste Management Policy<br>(can be part of environment policy) |    |    |
| WM Credit 1                   | Leadership & Strategy   | 10 |    |
| WM Credit 1.1                 | Short term & long term targets and resource allocation  |    | 5  |
| WM Credit 1.2                 | Monthly reviews by top management   |    | 5  |
| WM Credit 2                   | Employee Involvement & Capacity Building  | 10 |    |
| WM Credit 2.1                 | Awareness creation and employee involvement for waste management  |    | 5  |
| WM Credit 2.2                 | Training and Capability Building for relevant employees   |    | 5  |
| WM Credit 3                   | Waste Inventorisation (both hazardous and non-<br>hazardous waste)  | 5  |    |
| WM Credit 4                   | Solid Waste Management (both hazardous and non-<br>hazardous waste)   | 15 |    |
|                               | ≥ 10 % reduction in specific waste disposal   |    | 5  |
|                               | ≥ 15 % reduction in specific waste disposal   |    | 10 |
|                               | ≥ 20 % reduction in specific waste disposal   |    | 15 |
| WM Credit 5                   | Liquid Waste Management   | 25 |    |
| WM Credit 5.1                 | Process Effluent Management - Reduction in disposal   | 15 |    |
|                               | ≥ 30% reduction in process effluent disposal  |    | 5  |
|                               | ≥ 80 % reduction in process effluent disposal   |    | 10 |
|                               | Zero Effluent Discharge   |    | 15 |
| WM Credit 5.2                 | Sewage Management - Reduction in disposal   | 10 |    |
|                               | ≥ 50 % reduction in sewage disposal   |    | 5  |
|                               | ≥ 80 % reduction / Zero Water Discharge   |    | 10 |

| WM Credit 6    | Gaseous waste Management (Other than GHG<br>emission)   | 10 |    |
|----------------|---|----|----|
|                | ≥ 10% reduction over and above the norms / reduction<br>in absolute emission per unit of production |    | 5  |
|                | ≥ 20% reduction over and above the norms / reduction<br>in absolute emission per unit of production |    | 10 |
|                | Sub total   | 75 |    |
| Material Con   | servation, Recycling & Recyclability (Max:100 Points)   |    |    |
| MCR Credit1    | Leadership & Strategy   | 10 |    |
| MCR Credit 1.1 | Material Conservation & Recycling Policy (can be part of environment/other company policies)        |    | 5  |
| MCR Credit 1.2 | Short & long term targets and allocation of resources   |    | 5  |
| MCR Credit 2   | Employee Involvement & Capacity Building  | 10 |    |
| MCR Credit 2.1 | Awareness creation for employee involvement on<br>material conservation and recycling               |    | 5  |
| MCR Credit 2.2 | Training and Capability Building for relevant employees   |    | 5  |
| MCR Credit 3   | Systems   | 10 |    |
| MCR Credit 3.1 | Framework for Material Conservation   |    | 5  |
| MCR Credit 3.2 | Systematic Monitoring Plans   |    | 5  |
| MCR Credit 4   | Raw Material Conservation   | 30 |    |
|                | Increase in recovery of sugar cane  |    |    |
|                | 1 % increase in recovery percentage   |    | 5  |
|                | 2 % increase in recovery percentage   |    | 10 |
|                | 3 % increase in recovery percentage   |    | 15 |
|                | 4 % increase in recovery percentage   |    | 20 |
|                | 5 % increase in recovery percentage   |    | 25 |
|                | 6 % increase in recovery percentage   |    | 30 |

| MCR Credit 5                     | Management of Packaging Material   | 25  |    |
|----------------------------------|--|-----|----|
| MCR Credit 5.1                   | Reduction in Packaging Material  | 15  |    |
|                                  | ≥ 5% reduction in packaging material   |     | 5  |
|                                  | ≥ 10% reduction in packaging material  |     | 10 |
|                                  | ≥ 15% reduction in packaging material  |     | 15 |
| MCR Credit 5.2                   | Recycled content in Packaging Material   | 10  |    |
|                                  | ≥ 5% recycled content in packaging material  |     | 5  |
|                                  | ≥ 10% recycled content in packaging material   |     | 10 |
| MCR Credit 6                     | Reduction in consumables (chemicals) used in the process   | 15  |    |
|                                  | ≥ 5% reduction in consumables  |     | 5  |
|                                  | ≥ 10% reduction in consumables   |     | 10 |
|                                  | ≥ 15% reduction in consumables   |     | 15 |
|                                  |  |     |    |
|                                  | Sub total  | 100 |    |
|                                  |  | 100 |    |
| GSC Credit 1                     | Sub total  | 100 |    |
| GSC Credit 1<br>GSC Credit 1.1   | Sub total<br>Green Supply Chain (Max:100 points)   |     | 5  |
|                                  | Sub total   Green Supply Chain (Max:100 points)   Leadership and Strategy   Strategy and Target setting for reducing environmental intensity(energy, water, material, GHG, waste) in the   |     |    |
| GSC Credit 1.1                   | Sub totalGreen Supply Chain (Max:100 points)Leadership and StrategyStrategy and Target setting for reducing environmental<br>intensity(energy, water, material, GHG, waste) in the<br>supply chainApproved resource allocation for current year &<br>ensuing year (financial, man power, infrastructure,     |     | 5  |
| GSC Credit 1.1<br>GSC Credit 1.2 | Sub totalGreen Supply Chain (Max:100 points)Leadership and StrategyStrategy and Target setting for reducing environmental<br>intensity(energy, water, material, GHG, waste) in the<br>supply chainApproved resource allocation for current year &<br>ensuing year (financial, man power, infrastructure,<br> | 10  | 5  |

| GSC Credit 3.2 | Monitoring System for resource intensity reduction achieved in supply chain                |     | 5  |
|----------------|--|-----|----|
| GSC Credit 4   | Green Procurement Strategy and Implementation  | 20  |    |
| GSC Credit 4.1 | Green procurement guidelines adopted by the company  |     | 10 |
| GSC Credit 4.2 | Implementation of guidelines   |     | 10 |
| GSC Credit 5   | Supplier Efficiency Improvement  | 15  |    |
| GSC Credit 5.1 | Supplier Audits  | 10  |    |
|                | $\geq$ 5 % of critical suppliers related to environment                                    |     | 5  |
|                | $\geq$ 10 % suppliers related to environment   |     | 10 |
| GSC Credit 5.2 | Recognition programs for suppliers based on environmental performance                      | 5   |    |
| GSC Credit 6   | Resource intensity reduction in the Supply Chain<br>(Carbon, Material, Water and Toxicity) | 35  |    |
| GSC Credit 6.1 | Baselines and targets  |     | 5  |
| GSC Credit 6.2 | % Reduction in Supplier resources<br>(Carbon/Material/Water/Toxicity) - 30 points          |     |    |
|                | At least one project   |     | 5  |
|                | $\geq 1_{\%}$ reduction resources  |     | 10 |
|                | ≥ 2 % reduction resources  |     | 15 |
|                | $\geq$ 3 % reduction resources   |     | 20 |
|                | ≥ 4 <u></u> % reduction resources  |     | 25 |
|                | ≥ 5 <u>%</u> reduction resources   |     | 30 |
|                | Sub-Total  | 100 |    |

|               | Product Stewardship(Max: 75 Points)  |    |    |
|---------------|--|----|----|
| PS Credit 1   | Leadership and Strategy  | 10 |    |
| PS Credit 1.1 | Strategy and Targets(Short and Long term)  |    | 5  |
| PS Credit 1.2 | Action plan for reducing the negative impact of the product/service (ethanol supplied for alcohol vs fuel/chemical industry)   |    | 5  |
| PS Credit 2   | Education, Awareness creation & Communication programs for consumers, distributors and farmers   | 10 |    |
| PS Credit 3   | Product Responsibility Management (Ensuring the quality of the product during storage, transportation and distribution)  | 10 |    |
| PS Credit 4   | Reduction in Toxic or Hazardous substances in process  | 10 |    |
|               | $\geq 10\%$ reduction  |    | 5  |
|               | ≥ 20 % reduction - additional 5 points   |    | 10 |
| PS Credit 5   | Extended Producer Responsibility   | 30 |    |
| PS Credit 5.1 | % of ethanol sent to alcohol manufacturing vs fuel/chemical industry   |    | 5  |
| PS Credit 5.2 | % of raw sugar sent for direct consumption (not to a refinery)   |    | 5  |
|               | Initiatives taken involving farmers, research<br>institutions to improve productivity and reduce<br>environmental impacts (cane yield, soil quality,<br>reduced use of pesticides, encouraging organic |    |    |
| PS Credit 5.3 | fertilizers etc)   |    | 20 |
| PS Credit 6   | Engagements to Voluntary codes and standards and<br>also directives for reducing environmental impacts<br>(e.g. Mission on Sustainable Growth initiative of CII,<br>sustainability reporting etc.)     | 5  |    |
|               | Sub-Total  | 75 |    |

|                | Life Cycle Assessment (Max: 75 Points)  |    |    |
|----------------|---|----|----|
| LCA Credit 1   | Leadership and Strategy   | 10 |    |
| LCA Credit 1.1 | Goals & Target setting for conducting LCA studies   |    | 5  |
| LCA Credit 1.2 | Action plan for conducting LCA studies  |    | 5  |
| LCA Credit 2   | LCM reviews-new products and existing products<br>(Identifying and managing the environmental impacts<br>(Carbon/Material/Water/Toxicity)   | 10 |    |
| LCA Credit 3   | LCA for any of the products/service occupying the<br>highest share in the product line (Assessing the<br>environmental impact of the product adopting cradle-<br>grave or cradle-cradle approach to quantify the<br>environmental impact<br>(Carbon/Material/Water/Toxicity)) | 10 |    |
| LCA Credit 3.1 | Internal Study  |    | 5  |
| LCA Credit 3.2 | LCA Study with Peer Review- additional 5 points   |    | 10 |
| LCA Credit 4   | Environmental Impact Reduction based on<br>LCA(Carbon/Material/Water/Toxicity)  | 25 |    |
|                | Atleast one project   |    | 5  |
|                | ≥ 5% impact   |    | 10 |
|                | ≥ 10% impact  |    | 15 |
|                | ≥ 15% impact  |    | 20 |
|                | ≥ 20% impact  |    | 25 |
| LCA Credit 5   | Detailed Environmental Product Declaration for<br>Products  | 10 |    |
| LCA Credit 6   | External Partnerships contributing to LCI Database at<br>National Level   | 10 |    |
|                | Sub-Total   | 75 |    |

| Others (Max: 100 Points) |   |      |    |  |
|--------------------------|---|------|----|--|
| Green Factory Building   | To achieve IGBC Green Factory Building Rating, the<br>unit / facility has to either follow Credit 1 Or Credit 2,<br>3 and 4 |      |    |  |
| OS Credit 1              | Achieve Green Building as per IGBC Green Factory<br>Rating  | 50   |    |  |
| OS Credit 2              | Indoor Environment Quality  | 20   |    |  |
| OS Credit 2.1            | Fresh Air Ventilation 20%, 30%  |      | 10 |  |
| OS Credit 2.2            | Low VOC Paints  |      | 5  |  |
| OS Credit 2.3            | Eco friendly house keeping chemicals  |      | 5  |  |
| OS Credit 3              | Site Selection Planning   | 10   |    |  |
| OS Credit 3.1            | Housing 40% of employees within 5 km radius   |      | 5  |  |
| OS Credit 3.2            | Access to Public Transport / Shuttle Services   |      | 5  |  |
| OS Credit 4              | Landscaping   | 20   |    |  |
| OS Credit 5              | Innovation (exemplary performances in any of 9 parameters or other innovations)   | 40   |    |  |
|                          | 8 Innovations @ 5 Points / Innovation   |      | 40 |  |
| OS Credit 6              | Accredited Green Professionals  | 10   |    |  |
|                          | Sub total   | 100  |    |  |
|                          |   |      |    |  |
|                          | Total   | 1000 |    |  |

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## **About CII**

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the growth of industry in India, partnering industry and government alike through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, playing a proactive role in India's development process. Founded in 1895, India's premier business association has over 7200 members, from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 100,000 enterprises from around 242 national and regional sectoral industry bodies.

With 64 offices, including 9 Centres of Excellence, in India, and 7 overseas offices in Australia, China, Egypt, France, Singapore, UK, and USA, as well as institutional partnerships with 312 counterpart organizations in 106 countries, CII serves as a reference point for Indian industry and the international business community.

# About CII – Sohrabji Godrej Green Business Centre

CII - Sohrabji Godrej Green Business Centre (CII - Godrej GBC) is one of the 9 Centres of Excellence of the Confederation of Indian Industry (CII).

CII-Sohrabji Godrej Green Business Centre offers advisory services to the industry in the areas of Green buildings, energy efficiency, environmental management, renewable energy, Green business incubation and climate change activities.

The Centre sensitises key stakeholders to embrace Green practices and facilitates market transformation, paving way for India to become one of the global leaders in Green businesses.



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