APPLICATION FOR NATIONAL AWARDS FOR THE CONSTRUCTION INDUSTRY

- GREEN CONSTRUCTION AWARDS -

01. Name and Address of the Organization :

02. Organizational Profile :

03. Details of the projects where Green Construction Methods are used :

(a) Name :

(b) Location :

(c) Contract Value (Final) :

(d) Date of Commencement :

(e) Date of Completion :

(f) Extent of time extensions granted:

(g) Name and Address of the Client :

(h) Name and Address of the Consultant / Consultants:

(i) Brief description of the Energy Efficient Methods used :

04. Declaration by the Applicant

I hereby certify that I have read the guidelines for National Awards for the Construction Industry – "Green Construction Awards". I also certify that the information provided by me is true and correct. I understand that submission of false information is an offence which will amount for the withdrawal of the award with a notification to the press.

Seal

Signature of Partner / Share Holder

Date: …….

GUIDELINES FOR NATIONAL AWARDS FOR THE CONSTRUCTION INDUSTRY

- GREEN CONSTRUCTION AWARDS -

(a) Eligibility

(i) Be registered companies for the business purposes of carrying out construction.

(ii) Should not have declared bankruptcy or in the process of declaring bankruptcy.

(iii) Should have completed the project within the stipulated time.

(b) How to apply

Applications can be obtained from Development Division of CIDA. Duly completed application form should be accompanied by fee as per below.

Project Value (V) (Rs. Millions)	**Fee (Rs.)**
$50 \leq V < 150$	25,000.00 + VAT
$150 \leq V < 300$	35,000.00 + VAT
$300 \leq V$	40,000.00 + VAT

(c) Documents that should accompany the application.

The following documents shall accompany the application

(i) Certificate of completion or certificate of practical completion

(ii) Evidence for legitimate time extension (if any)

(iii) Evidence for contract period and value

(iv) Commissioning reports (where applicable)

(v) Letter from the client to show that the project is free of functional problems relevant to the contract.

(vi) Details of the Energy Efficient Methods used in the project and the advantages of it.

(d) If the application is accepted, the contractor will be required to provide comfortable transport and accommodation to members of the inspection panel (when required), at their own expenses.

GREEN BUILDING COUNCIL OF SRI LANKA
NATIONAL AWARDS FOR GREEN CONSTRUCTION EXCELLENCE
Project Certification Assessment

Project Name : ……

	Presentation Evaluation			Maximum Marks	Marks
1.	Overall of Design Concept to Achieve Green Project			15	
2.	Green Building Features				
	2.1	i.	Management	02	
		ii.	Sustainable Sites	18	
		iii.	Water Efficiency	09	
		iv.	Energy Atmosphere	18	
		v.	Materials and Resources	09	
		vi.	Indoor Environmental Quality	08	
		vii.	Innovation and Design Process	03	
		viii.	Social and Cultural Awareness	03	
	2.2	Cost Analysis		15	
	Total			100	

The presentation time allocated to each applicant is 20 minutes (this includes the time allocation for the company profile also).

Awarding Criteria

Minimum Points Required	Total Requirements
For Excellence Award	75
For Merit Award	65

Panel Member : ……..…….

Signature : ……..…… Date : ….…….…….

Recommendation : Excellence / Merit / None

CONSTRUCTION INDUSTRY DEVELOPMENT AUTHORITY (CIDA)

NATIONAL AWARDS FOR THE CONSTRUCTION INDUSTRY

GREEN CONSTRUCTION AWARDS

(To be awarded in collaboration with the Green Building Council of Sri Lanka)

Application Form for Green Construction Awards

For More Information
Green Building Council of Sri Lanka
350A, 'Idikireem Medura', Pannipitiya Road, Pelawatta, Battaramulla
Phone : 011 4343131 Fax : 011 4209878
E mail : info@srilankagbc.org Web: www.srilankagbc.org

1.0 MANAGEMENT

Prerequisite 1 – Green Building Accredited Professional

- Does Green building Accredited Professionals engage in the project?_____
- If yes how many Professionals got involved? _____
- Attendance to the Project Design Meetings as a percentage of totals_____

**Attach the list of the names and the registration numbers of the GBCSL APs*

Prerequisite 2 – Commissioning Clause

- Does the Comprehensive pre - commissioning is practiced?
- Does the Quality Monitoring is practiced?

**Attach the design intent, as-built drawings, operation and maintenance manual, commissioning report and the training plan of the building management.*

Credit 1.1 – Building Tuning (1 points)

- The building owner implements tuning of all the building systems (contract documents should be attached) ☐
- A relevant member of the design team is involved in the tuning process ☐
- Monthly monitoring is undertaken and the outcomes are reported to the building owner quarterly ☐
- Full re-commissioning is undertaken 12 months after practical completion ☐
- A building tuning report on the outcomes of the tuning process is provided to the building owner and made available to the design team ☐

Credit 1.2 – Building User Guide (4 points)

Is the building user is provided? _____

**If yes please attach the building user guide*

Credit 1.3 – Environmental Management (2 points)

Has the Environmental Management Plan (EMP) is developed? _____

**Attach the EMP*

Does the contractor has valid ISO 14001 Environmental Management System (EMS) accreditation prior to and throughout the project? _____

2.0 SUSTAINABLE SITES

Prerequisite 1 – Erosion and Sedimentation Control

Has any measurement taken to control/reduce soil erosion while minimizing negative impacts of waterway sedimentation and airborne dust generation? _____

**Attach the erosion and sediment control plan and relevant photographs to the document.*
If soil or any other material donated / sold needed to be proved by providing letters /receipts.

Credit 2.1 – Site Selection (5 points)

Is the site not a Green Site? _____

(The Green Site include Prime agricultural land, Land elevation is lower than 1,5 m above the elevation of the 50-year flood level, Land which is specifically identified as habitat for any species threatened or endangered species by the Department of Wildlife Conservation – Ministry of Environment, Land that is within the specified distance of any wetland as defined by Central Environmental Authority or as defined by local or state rule or law or the Ramsar Convention, which is the only global environmental treaty, Land which prior to acquisition for the project was public park land)

Credit 2.2 – Development Density and Community Connectivity (4 points)

Is the site in an urban area with existing infrastructure? _____
What are the basic services in the vicinity? _____
Are there pedestrian access between building and the services? _____
(Basic services include places of worship, hospitals, pharmacy, post office, police station, schools, banks, super markets, parks, grocery stores, day-care centres, theatre, laundry, library, restaurants, and community centres)
**Attach the scaled map of the vicinity and indicated the location of the residential or industrial zone, basic services*

Credit 2.3 – Brownfield Redevelopment (1 point)

Is the site a Brown field site?
If yes please attach the remedial measure that you have taken along with the photos

Credit 2.4 – Alternative Transportation (3 points)

What is the distance to the public bus route from the building?
What is the distance to the public railway station from the building?

Indicate the percentage considering the mode of transportation

By
- Public vehicles _____
- Private vehicles _____
- Office vehicles _____
- Cycles _____
- Fuel-efficient Vehicles _____

Credit 2.5 – Reduced Site Disturbance (4 points)

Is there any measurements were taken to conserve existing natural areas and restore damaged areas that provide habitat and promote biodiversity? _____
**Attach the report along with photographs and illustrations*

What is the building foot print as a percentage of the site? _____

Credit 2.6 – Storm Water Design, Quantity Control (3 points)

What is the imperviousness of the site?

What is the post-development discharge rate?

**Peak rainfall intensity of 75mm per hour shall be considered for storm water design. Attach the storm water management plan supported with the calculations*

Credit 2.7 – Storm Water Design, Quality Control (2 points)

What is the volume of rain water that can be managed as a percentage of the average annual rainfall? _____

**Attach a report how you ensure the quality of the storm water discharged.*

Credit 2.8 – Heat Island Effect, Non - Roof (2 points)

Is there any measurements were taken to reduce heat island effect (thermal gradient differences between developed and undeveloped areas)? _____

Indicate the area of followings as a percentage from the total

Shade from trees has been provided for hardscape areas_____

Shade is provided from light coloured shading devices _____

Underground parking is available _____

Open-grid pavement system is used _____

Hardscape includes roads, sidewalks, courtyards and parking lots etc..

Credit 2.8 – Heat Island Effect, Non - Roof (2 points)

What is the roofing material that has been used? _____

What is the colour of the roof? _____

What is the SRI value of the roofing material (If known)? _____

**If more than one roofing material have been used, attach the above details along with the percentage of different roofing material*

Credit 2.10 – Light Pollution Reduction (1 points)

Do all non-emergency interior lighting turned off during non-business hours? _____

What is the horizontal lux level at the site boundry? _____

What is the vertical lux level at the site boundary? _____

What is the horizontal lux level at 3m beyond the site boundary? _____

3 WATER EFFICIENCY

Credit 3.1 – Water Efficient landscaping (2 – 4 points)

What is the percentage of potable water reduction for landscaping? _____

**Attach the landscaping plan and the water requirement for landscaping and indicate the measurements that have been taken to reduce the potable water consumption*

Credit 3.2 – Water Efficiency in Air-conditioning System (1 point)

What is the percentage reduction of potable water usage in the A/C system? _____

What is the percentage of condensed water that used for landscape irrigation? _____

Credit 3.3 – Innovative Wastewater Technologies (2- 4 point)

How much of NWS&DB provided potable water for building sewage conveyance is reduced? _____

How much of waste water has been treated to the tertiary standards? _____

How much of harvested rain water is used for toilet flushing? _____

Credit 3.4 – Water Use Reduction (2- 4 points)

What is the percentage reduction of the potable water usage in the building compared to the guidelines published by the GBCSL ?

**Please attach the water bills for last 2 years*

Credit 3.5 – Innovative Water Transmission (1 point)

What is the Percentage reduction of non – renewable energy used in water transmission?

4 ENERGY & ATMOSPHERE

Prerequisite 1 – Fundamental Building Systems Commissioning

(Please mark ✓ in the given box)

- Commissioning Requirements has been incorporated in the construction documents
- Commissioning plan has been developed
- Documentations to verify installation, functional performance, training and operation and maintenance has been developed
- The members in the Commissioning Team (CT);
  - Is independent from the responsibility of project design or construction management
  - Is not an employee of the Design Firm
  - Is not an employee of the Construction Firm
- CT has reviewed the design intent and basis of design documentation (at least once)
- The reviews has been checked by the design team
- Commissioning Report is available

Prerequisite 2 – Minimum Energy Performance

Does the Building Design comply with;

The mandatory provisions of ASHRAE / IESNA Standard 90.1 – 2004(without amendments)?

The prescriptive requirements or performance requirements of ASHRAE / IESNA Standard 90.1 - 2004 / (without amendments)?

The final version of Code of Practice on Energy Efficient Buildings of the Sri Lanka, published by Sustainable Energy Authority (SEA)?

Prerequisite 3 – CFC Reduction in HVAC&R Equipment

Do the HVAC systems use CFC refrigerants?

Credit 4.1 – Optimize Energy Performance (1-10 Points)

What is the percentage of energy saving of the building compared with the benchmark given by GBCSL? _____

**Attach monthly electricity bill for past two years*

Credit 4.2 – Renewable Energy (1-8 Points)

What is the percentage of renewable energy used in the building? _____

Credit 4.3 – Additional Commissioning (1-8 Points)

Please tick in the given box if you are complying with them *(Please mark ✓ in the given box)*

- Focused review of the design prior to the construction documents phase has been conducted	
- Focused review of the construction documents has been conducted close to completion	
- Selective review of contractor submittals of commissioned equipment has been conducted	
- Re-commissioning management manual has been developed	
- There is a contract in place for a near-warranty end or post occupancy review.	

Credit 4.4 – Ozone Depletion (1 Point)

Do the base building level HVAC and refrigeration equipment and fire suppression systems not contain HCFCs or Halons? _____

Credit 4.5 – Measurement & Verification (1 Point)

Is there a Measurement & Verification (M&V) Plan? _____
**Attach M&V Plan*

Credit 4.6 – Green Power (1 Point)

What is the percentage of green power generation from the total building energy requirement? _____
What is the source of Green power? _____

5 MATERIALS AND RESOURCES

Prerequisite 1 – Storage and Collection of Recyclable

Is there a separation of recyclable materials?
**If yes, list the recyclable materials and indicate collection method and the storage method. Collection method and storage should not be exposed to contamination.*
Is there a easy access to the service area?

Credit 5.1 – Building Reuse (1-3 Points)

Is the building reusing done? _____
What is the percentage maintained from the existing building structure and shell? _____

What is the percentage maintained from the Non – Shell area? _____

Credit 5.2 – Construction Waste Management (1-2 Points)

What is the percentage that has been recycled / salvaged from the construction waste? _____

Credit 5.3 – Resource Reuse (1-2 Points)

What is the usage of the materials that have been salvaged, refurbished or reused materials, products and furnishings in construction? _____

Credit 5.4 – Recycled Content (1-2 Point)

What is the value of materials with post-consumer recycled content? _____
What is the value of materials with post-industrial recycled content? _____
What is the total value of the material used for project? _____

Credit 5.5 – Local / Regional Material (1-3 Point)

What is the usage of building materials and products that are manufactured locally? _____
Are those extracted, harvested or recovered locally? _____

Credit 5.6 – Rapidly Renewable Material (1 Point)

What is the usage of rapidly renewable material? _____

Credit 5.7 – Certified Timber (1 Point)

Do you use certified timber? _____

6 INDOOR ENVIRONMENT QUALITY

Prerequisite 1 – Minimum IAQ Performance

What is the percentage of spaces that are

- Naturally ventilated _____
- Mechanically ventilated _____

Does the ventilation design meet the minimum requirement of ASHRAE 62.1-2004 standards?

_____

Are the **Mechanically ventilated** spaces adhering to ventilation rate produced or the applicable local code, whichever is more stringent? _____

Are the **Naturally ventilated** spaces complying with ASHRAE 62.1-2004, paragraph 5.1?

_____

Prerequisite 2 – Smoke (ETS) Control

If you have incorporated the following features please tick in the box given

Smoking is prohibited	☐
Smoking is prohibited except in designated smoking areas	☐
Exterior designated smoking area is located 10m away from entries, outdoor air intakes and operable windows.	☐

The designated smoking rooms are

Effectively contain, capture and remove ETS from the building.	☐
- Directly exhausted to the outdoors with no re-circulation.	☐
- Enclosed with impermeable deck-to-deck partitions.	☐
- Having negative pressure with respect to the adjacent spaces of at least an average of 5 Pa and a minimum of 1 Pa	☐

Credit 6.1 – Outdoor Air Delivery monitoring (1 point)

Is CO_2 Monitoring provided _____

Are CO_2 monitoring locations between 1 – 2 m above the floor. _____

Credit 6.2 – Increased Ventilation (1 point)

For Mechanically ventilated spaces

What is the increment of the breathing zone outdoor air ventilation rates to all occupied spaces above the minimum rates required by ASHRAE Standard 62.1-2004? _____

For Naturally ventilated spaces

Has the naturally ventilated spaces designed according to

- Carbon trust GPG and CIBSE Applications Manual 10:2005 _____
- ASHRAE 62.1-2004 Chapter 6 _____

Credit 6.3 – Construction IAQ Management Plan (1 point)

If you have incorporated the following features please tick in the box given

- (SMACNA) IAQ Guideline for Occupied Buildings under Construction, 1995, Chapter 3 has met or exceeded
- On-site or installed absorptive materials are protected from moisture damage
- If air handlers are used filtration media with a MERV of 8 is used at each return air grill
- Two-week building flush-out has been conducted with new MERV 8 filtration media before occupancy
- After flush out all filters have been replaced with new MERV 8 filtration media except those solely processing outside air

Credit 6.4 – Low - Emitting Materials (1- 3 points)

Do the VOC contents of Adhesives and Sealants, Paints and Coatings, Carpet, Composite timber and Agrifiber product comply with the benchmark given by the GBCSL? _____

**Attach the list of the above product indicating the brand names and the VOC content along with the product specification*

Credit 6.5 – Indoor Chemical & Pollutant Source Control (1- 3 points)

Is there any strategy provided to minimize exposure of building occupants to potentially hazardous particulates and chemical pollutants? _____

**If any Chemical storage or Pollutant source is present in the building, indicate the strategies that have adopted to minimize the exposure of the building occupant to hazardous materials.*

Credit 6.6 – Controllability of Systems (1- 2 points)

Can individual control the lighting level of his surrounding? _____

What is the % of individual lighting control that has been provided? _____

Can individual control the comfort level of his surrounding? _____

What is the % of individual comfort control that has been provided? _____

Credit 6.7 – Thermal Comfort, Design (1 points)

Do the HVAC systems and the building envelope meeting the requirements of ASHRAE Standard 55-2004? _____

Credit 6.8 – Thermal Comfort, Verification (1 points)

Please tick on the given box if you are incorporating the following features,

- A thermal comfort survey of building occupants will be conducted within a period of 6 to 18 months after occupancy
- a plan for corrective action will be developed, if the survey results indicate that more than 20% of occupants are dissatisfied with thermal comfort in the building

7 INNOVATION AND DESIGN PROCESS

Credit 7.1 – Innovation in Design (1-4 Points)

Do you have innovation other than the criteria stated here?

**If any attach the relevant documentation*

8 SOCIAL AND CULTURAL AWARENESS

Prerequisite 1 – Archaeological Sites & Heritage Buildings

New Construction and Renovation / Rehabilitation

Does the site have an archeological value?

If yes, is the site approved for construction?

Does the panel consist with

Qualified Archaeologist	
Charted Architecht	
Charted Engineer	

Has the panel is jointly appointed by the Department of Archaeology, Sri Lanka Institute of Architects and The Institution of Engineers Sri Lanka?

Credit 8.1 – Social wellbeing Public Health and Safety (1-2 Points)

What are the Characteristics that included in the design considering the health benefits of an urban lifestyle shall?

• Public recreational areas	
• The public safety requirements as per the local authority guidelines	
• Privacy and safety of all types of users	
• All levels of accessibility requirements	
• Vegetable garden spaces, vegetable roof gardens	

Credit 8.2 – Cultural Identity (1-2 Points)

- Justify the building/development designs in terms of the reflection of the cultural values, acceptances, aspirations

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- Strategies adopted to promote/provide spaces as required for culturally based life styles of rural and urban settings

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- Strategies adopted to create Identity, sense of place and cultural awareness

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- Strategies adopted to promote social empowerment, community participation and access

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