

### APPLICATION FOR NATIONAL AWARDS FOR THE CONSTRUCTION INDUSTRY



### - GREEN CONSTRUCTION AWARDS -

11. Name and Address of the Organization :								
)2.	Org	Organizational Profile :						
)3.	Deta	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 gra	anted:					
	(g)	Name and Address of the Cli	ient :					
	(h)	Name and Address of the Co	onsultant / Con	sultants:				
		Brief description of	f the Energy E	fficient Methods used:				
)4.	Dec	laration by the Applicant						
	Indu true	ıstry – " <u>Green Construction A</u>	wards". I also at submission	es for National Awards for the Construction o certify that the information provided by me is of false information is an offence which will otification to the press.				
		Sea	al )	Signature of Partner / Share Holder				
		``	-1'	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.)		
$50 \le V < 150$	25,000.00 + VAT		
$150 \le V < 300$	35,000.00 + VAT		
300 ≤ 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.	Over	all of I	Design Concept to Achieve Green Project	15		
2.	Gree	n Build	ling Features			
	2.1	i.	Management		02	
		ii.	Sustainable Sites		18	
		iii.	Water Efficiency		09	
		iv.	Energy Atmosphere	70	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			1	15	
	Total			1	00	

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		

<b>Panel Member</b>	:	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	
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

Section 1	The state of the s			
Pre	erequisite 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			
*A	ttach the list of the names and the registration numbers of the GBCSL APs			
10000	the description and the registration numbers of the escape, its			
Pre	erequisite 2 – Commissioning Clause			
	Does the Comprehensive pre - commissioning is practiced?			
	Does the Quality Monitoring is practiced?			
*A	ttach the design intent, as-built drawings, operation and maintenance manual, commissioning			
	ort and the training plan of the building management.			
Cre	edit 1.1 – Building Tuning (1 points)			
2				
•	The building owner implements tuning of all the building systems (contract documents should be attached)			
	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			
Cr	edit 1.2 – Building User Guide (4 points)			
	he building user is provided?			
*If	yes please attach the building user guide			
Cr	edit 1.3 – Environmental Management (2 points)			
•	east 210 21 th of the first that the first the			
Ha	s the Environmental Management Plan (EMP) is developed?			
*A	ttach the EMP			
	es the contractor has valid ISO 14001 Environmental Management System (EMS) accreditation			
pri	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 2m howard the site houndary?

## **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

Prerec	quisite 1 – Fundamental Building Systems Commissioning	(Please mark ∜ 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);	
	<ul> <li>Is independent from the responsibility of project design or construction management</li> </ul>	
	- 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	2
•	Commissioning Report is available	
	quisite 2 – Minimum Energy Performance he Building Design comply with;	
	he mandatory provisions of ASHRAE / IESNA Standard 90.1 – 2004(without mendments)?	
	he prescriptive requirements or performance requirements of ASHRAE / IESNA tandard 90.1 - 2004 / (without amendments)?	
	he final version of Code of Practice on Energy Efficient Buildings of the Sri Lanka, ublished by Sustainable Energy Authority (SEA)?	
Prerec	quisite 3 – CFC Reduction in HVAC&R Equipment	
	HVAC systems use CFC refrigerants?	
What is		k given by
*Attack	n 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, product
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**

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Prerequisite 1 – Minimum IAQ Performance
What is the percentage of spaces that are
<ul> <li>Naturally ventilated</li> <li>Mechanically ventilated</li> </ul>
Does the ventilation design meet the minimum requirement of ASHRAE 62.1-2004 standards?
Are the <b>Mechanically ventilated</b> spaces adhering to ventilation rate produced or the applicable local cod 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 <sub>2</sub> Monitoring provided
Are CO <sub>2</sub> 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

### 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

### **INNOVATION AND DESIGN PROCESS**

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

Do you have innovation other than the criteria stated here?

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)
<ul> <li>Justify the building/development designs in terms of the reflection of the cultural</li> </ul>
values, acceptances, aspirations

<sup>\*</sup>If any attach the relevant documentation

•	Strategies adopted to promote/provide spaces as required for culturally based life styles of rural and urban settings
	Strategies adopted to create Identity, sense of place and cultural awareness
	Strategies adopted to promote social empowerment, community participation and
	access