ECO LABEL CRITERIA FOR CEMENT







1. Introduction

The Certification Scheme for Eco Labelling of Products/Services of the National Cleaner Production Centre, Sri Lanka (NCPC-SL) is based on the requirements laid down in the *ISO* 14024:2018 Environmental labels and declarations - Type 1 environmental labeling – Principles and procedures.

ISO 14024 specifies the requirements for eco-labeling certification. The Eco Labelling criteria /s of NCPC SL satisfy the ISO 14024 requirements as required by the eco-labelling certification schemes. Here are the key requirements fulfilled accordingly;

- > Scope: The eco-labeling certification scheme covers specific product categories/services with a significant impact on the environment.
- Product Criteria: Clear and transparent environmental criteria has been established for products/ services to be eligible for the eco-label. These criteria has been based on scientific evidence and consider the entire product life cycle.
- Independent Third-Party Verification: NCPC SL conduct independent third-party verification of compliance with the eco-labeling criteria.
- Impartiality: The certification process is impartial and free from any conflicts of interest that could undermine its credibility.
- Transparency: The eco-labeling scheme has provided transparent information about the certification process, criteria, and verification procedures.
- Continuous Improvement: The scheme encourages continuous improvement in the environmental performance of certified products /services.
- Stakeholder Involvement: Stakeholders, including businesses, NGOs, consumers, and government representatives, has been involved in the development and revision of the eco-labeling criteria.
- Non-Discrimination: The certification scheme has not discriminated against products or services from different sources based on factors unrelated to environmental performance.
- > Compliance Monitoring: Regular monitoring and surveillance of certified products or services has been conducted to ensure ongoing compliance with eco-labeling criteria.
- Public Access to Information: Information about the eco-labeling scheme, certified products, and their environmental criteria shall be accessible to the public.
- Environmental Labeling and Advertising: The use of the eco-label in advertising or labeling has been controlled and subject to the certification scheme's rules.
- > Review and Revision: The certification scheme should undergo periodic review and revision to ensure its relevance and effectiveness.

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This document sets out specific managerial and technical criteria for raw material extraction, transportation, manufacturing, dispatch of product for sale, etc.

Terminologies and aspects related to the concepts of sustainability management are covered during the involved processes.

The aspects related to sustainability management described in this document can include environmental impacts, energy, and water security or socio-economic development, or any combination thereof.

The certification of Eco Labelling of cement is implemented through a set programme operated over a specified period as agreed with relevant parties.

The NCPC-SL functions as the scheme owner of this certification scheme. This document includes environmental criteria, function characteristics, and legal requirements related to cement.

This specific product environmental criteria document has been prepared by the Expert Committee on Eco Labelling appointed by the NCPC-SL and authorized for adoption by the Governing Council of NCPC-SL. The cement manufacturers who are seeking eco-labeling certification are required to meet the following requirements.

i. The product and processing conditions shall comply with the requirements given in the below NCPC-SL guidelines;

and

ii. The product and processing shall comply with relevant regulations mentioned in this document and enforced in the country, as applicable;

and

iii. The product should conform to the relevant national, regional, and internationally recognized standards

This document supplements the below guidelines and provides guidance for the certification of cement for both auditors and Producers who are preparing for certification. Each criterion mentioned herein is categorized depending on the significance of its impact on the product environmental criterion or product function characteristic being discussed, e.g. energy, water, material, environment, or socio-development, as follows.

- I. Mandatory requirements (M) Related to the legal requirements for product functional characteristics
- II. Critical requirements (C) Significant to product environmental criteria
- III. Non-critical requirements (NC) Not so significant to product environmental criteria when compared to critical requirements

This document should also be read in conjunction with the Rules and Procedures of NCPC-SL as applicable to the Eco Labelling Certification scheme.

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This document will be periodically reviewed and updated based on the experience gained and the developments that have taken place in technology and the use of energy, water, material and the environment.

The term 'shall' is used in this document to indicate those provisions which are mandatory. The term 'must' is used to indicate the guidance which, although not mandatory, is provided by NCPC-SL as a recognized means of meeting the requirements of the standard. The term 'should' is used to indicate recommendations for implementation.

The client should submit the relevant pieces of evidence for conformity verification for the last calendar year.

References

In the preparation of this criteria document, the following documents were referred.

ISO 14020 - Environmental labels and declarations - General principles

ISO 14024 – Environmental labels and declarations- Type 1 environmental labeling- Principles and procedures

Guidelines for Providing Product Sustainability Information, UN Environment Programme, 2017

establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes, Official Journal of the European Union.

2. Terms and definitions

For the purpose of this document, the terms and definitions given in the referred standards and the following shall apply.

Conformity: Fulfillment of a requirement

Note: Conformance and compliance are synonymously used for conformity but deprecated.

Verification: Confirmation through the provision of objective evidence that specified requirements have been fulfilled.

Organization: The Applicant organization is hereinafter referred to as an organization.

3. Certification Criteria

The entire life cycle of the product is considered, from the extraction of raw material through to production, packaging, distribution, use and disposal. The EU Ecolabel may define criteria that target environmental impacts from any of these life cycle phases, with the aim being to encompass the areas of greatest impact.

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4. Certification Criteria Requirements

Certification Criteria Requirements	Weighting Factor	Total Marks
Phase 01: Product Design for Sustainability		
 a) The product/s shall be designed holistically, considering all the environmental qualities (eg: Resource Efficiency improvement, Minimizing waste/pollution/emissions, Eliminating toxicity, design for disassembly, extended product lifetime, etc), to minimize associated impacts throughout the lifecycle. Conformity verification Strategies adopted at Design & Manufacturing Process/Operations to improve the environmental performance of the product Resource allocation for environmental improving the at the desiging & manufacturing stages of the product Implemented measures and addressed environmental Impacts R & D plans, test reports, etc 	М	À
 b) "recycled materials or industrial by-products" shall be used within the specified levels in the national standards in order to reduce the extraction of virgin materials, lowering the ecological footprint (e.g., fly ash, Slagetc) Conformity verification Material consumption records Documents certifying the contents of materials Details of the pre-treatment implemented, issued by the material supplier 	М	
hase 02: Industrial and Construction Mineral Extraction		
nase oz. muustnai anu Construction ivimerai extraction		
) Environmental impacts shall be assessed and addressed by the supplier for		

Phase 02: Industrial and Construction Mineral Extraction		
a) Environmental impacts shall be assessed and addressed by the supplier for the locally extracted materials or imported RM as applicable by the National & International Laws	С	
Conformity verification Environmental clearance reports (EPL or EIA reports) Supplier declerations Topographic Map and Satellite Image Showing the Location of the Raw Material Field (Quarry) Business License to Open and Operate Operating License Reinstatement Plan Hydrological survey report for water table management Certificates of environmental conformance received from the supplier. Legal agreements with the supplier (Refer the clauses relate to environmental aspects) Process and the criteria of material selection/ evaluation		

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b) Noise and particle levels shall be maintained below the levels specified levels by National laws (Example: In Sri Lanka – CEA Guidelines)		
Conformity varification		
Conformity verification		
Test reports of noise and dust levels at the mining site.		
Efforts taken (Photographic evidence for noise and dust control)		
towards controlling noise and dust emission during mining are		
considered such as putting trapping nets or maintaining a Green Belt to		_
avoid the spread of dust or noise out from the site.	М	
Check if any public complaints have arisen during the past three years		
and how the manufacturer has tackled them.		
If the applicant and the raw material extractor are two separate bodies		
and raw materials are extracted locally: Site visit records by the		
manufacturer, and documents/photographic evidence which prove	7) 7	
supplier's engagement with relevant environmental impacts		
management	,	
c) Industrial and Construction Mineral Extraction sites must not be established		
	С	
in areas of high conservation value, such as primary forests, wetlands, or		
other protected areas.		
Conformity verification:		
Documentation of land-use plans, ensuring no encroachment on protected or		
sensitive habitats.		
 Proof of compliance with national regulations governing land use and 		
,		
biodiversity conservation (e.g., Forest Department or Central Environmental		
Authority permits). Phase 03: Raw Material Transport to the Factory		
rhase 03. Naw Material Transport to the ractory		
a) Appropriate measures (eg: pre-planning of transportation, avoiding unnecessary		
movements, covering of materials during transportation, etc) must be taken to		
minimize oil/fuel consumption, and air emissions during the raw material		
transportation;		
Conformity verification		
The records on oil/fuel consumption for transportation are maintained		
Emission test reports of the vehicles		
 Pre-planning of transportation to avoid unnecessary movements 		
Green practices such as two mode transportation and etc.		
Details of the safety precautions taken during transportation, photographic	С	
evidence	C	
Details of Emergency Preparedness		
Or		
If the material transportation is carried out by a third party, appropriate measures		
should be taken to influence the third party in order to reduce associated environmental		
impacts		
Conformity verification		
Conformity verification ➤ Copy of Signed Agreement		
·		
Copy of Signed AgreementA sustainable transportation procurement policy		
Copy of Signed AgreementA sustainable transportation procurement policy		

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Details of the safety precautions taken during transportation, and photographic evidence.		
Details of Emergency Preparedness		
Contractor Safety Management Directive (CSMD)		
Phase 04: Manufacturing Process		
4.1 General Requirements		
a) Effective Environmental Management System (EMS) policies, procedures, and environmental management programmes should be implemented by the organization	NC	
Conformity verification Valid ISO 14001 EMS Certificate Records on Environmental Management Policy, procedures, and environmental management programmes are maintained 	2)	
b) Documented Environmental Management Roadmap must be developed to address the potential environmental problems of the organization Conformity verification	С	
Environment management roadmap of the organization 4.2 Water Resource Consumption and Conservation		
a) Infrastructure must be maintained to quantify the water usage for industrial processes and other purposes in the organization (from all water sources)	С	
 Conformity verification Water supply metering and/or submetering facilities established in the organization Water consumption records are maintained on a daily/monthly basis 		
b) The water distribution system/Plan should be documented	NC	
Conformity verification Plumbing Layout of the factory		
 c) Organization benchmark/baseline for water consumption should be established and daily consumption shall be monitored continuously Eg: specific water consumption in m³ / litres (m³/Kg, m³/MT) of product manufactured or 	NC	
per employee water consumption Conformity verification		
 Details of annual production, annual water consumption & Specific water consumption for at least 2 years Details of organization benchmarks including comparisons with the previous 		
two years or national and international benchmarks		
d) Organization should set a annual target based on the baseline performace and potential for reduction	С	

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	(Reduction in specific water consumption ≥ 5% - 1marks		
	Reduction in specific water consumption ≥ 10% - 2 marks		
	Reduction in specific water consumption ≥ 15% - 3marks)		
	Conformity verification		
	> Details of annual production, annual water consumption & Specific water		
	consumption for 3 years		
(e)	, , ,	NC	
	that water efficiency is maintained		
	Conformity vorification		
	Conformity verification > Site inspection regarding the implementation of Water conservation	AY	
	techniques and technologies,	7,7	
	techniques and technologies,		
f)	At least 5% of the total annual water consumption should be derived from	NC	
''	the harvested rain water that runoff from the roof & non-roof areas of the	IVC	
	manufacturing facility		
	manufacturing radiitely		
	Conformity verification		
	Factory observations of the operating rain water harvesting system		
	Quantitative information on the rain water collected monthly/ annually		
g)	Organizational/product water footprint should be calculated, recorded, and	NC	
0.	maintained.		
Co	onformity verification		
	The transparent and verifiable calculation method is available		
h)		С	
	and measuring the progress of the water management programmes and		
	analysing water consumption/conservation relevant data to make sure that		
	the water-saving efforts have been effective and communicating the		
	progress to the relevant authorities (eg: top management)		
	Conformity verification		
	> Progress report		
	> Impact/water Assessment Reports		
	Management review meeting minutes, etc		
	4.3 Energy Resource Consumption and Conservation		
a)		С	
	renewable) usage for industrial processes and other purposes in the organization		
	Conformity verification		
	Electricity sub-metering facilities established in the organization		
	➤ Electricity/Fuel consumption records are maintained on a daily/monthly basis		
	➤ Metering facilities for measuring renewable energy consumption/production are		
	established in the organization and records are maintained		
b)		С	
	monitored continuously.		

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	Т
(eg: specific electrical energy consumption in kWh / litres (kWh / kg, kWh / g, kWh / MT) of product produced and specific thermal energy consumption in MJ/litres,(MJ / kg, MJ / g ,MJ/MT)of product produced)	
Conformity verification	
 Details of annual/monthly production, energy consumption & specific energy consumption for the preceding at least 2 years 	, Ġ
c) Organization should set a annual target based on the baseline performace and	NC
c) Organization should set a annual target based on the baseline performace and potential for reduction of the specific electricity consumption	INC
(Reduction in specific electricity consumption ≥ 5% - 1 mark	
Reduction in specific electricity consumption ≥ 10% - 2marks	7,7
Reduction in specific electricity consumption ≥ 15% - 3marks)	
	,
Conformity verification	
Details of annual production, energy consumption & specific energy	
consumption for at least 2 years Details of the implementation of energy efficiency improvement	
measures with actual benefits achieved	
d) Organization should set a annual target based on the baseline performace	NC
and potential for reduction to reduce the specific thermal energy consumption	
(Reduction in specific thermal energy consumption ≥ 5% - 1 mark	
Reduction in specific thermal energy consumption ≥ 10% - 2marks	
Reduction in specific thermal energy consumption ≥ 15% - 3marks)	
Conformity verification	
 Details of annual production, energy consumption & specific energy 	
consumption for the preceding 2 years	
Details of the implementation of energy efficiency improvement	
measures with actual benefits achieved	
e) The organization should be substituted nonrenewable energy sources (On-site & off-	NC
site) with renewable energy (Eg: biomass, solar power, hydropower, etc)	
Conformity verification	
 Details of installation of onsite and offsite renewable power generating 	
sources including the technology, installed capacity and location with	
photographs of installations	
Details of total power/energy consumption in the manufacturing facility and	
renewable power produced in kWh,	
Solar connection agreement, etc	
f) Organization should be incentivized to replace a percentage of conventional fuels	NC
with waste-derived fuels (WDF), such as sustainable biomass (Rice husks, sawdusts)	
or industrial waste	
Conformation Vanification	
Conformity Verification	
Energy usage reports from the past three years showing improvements in efficiency and implementation of WDF.	

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g)	Appropriate measures (Eg: Fuel switching, waste heat recovery applications — thermal conductive capacitors, liquid capacitors, etc) should be implemented to improve energy efficiency in the organization because Sri Lanka uses a 100% dry process, so measures should be taken to prioritize plant optimization to reduce energy consumption. Conformity verification Site inspection relevant to the energy efficiency measures implemented Records on energy savings done through such implementation, investment records, etc	С	
h)	Effective Energy Management System (EnMS) or policies, procedures, and energy management programmes should be implemented by the organization Conformity verification ✓ Valid EnMS Certificate ✓ Records on Energy management Policy, procedures, and energy management programmes are maintained	NC	
i)	A Method should be introduced and implemented for continuous monitoring and measuring the progress of the energy management programmes and analysing energy relevant data to make sure that the energy-saving efforts have been effective and communicating the progress to the relevant authorities (eg: top management) Conformity verification Progress report Impact/Energy Assessment Reports, Management review meeting minutes	С	
	4.4 Raw Material Consumption		
a)	The organization must maintain records on raw materials supplied to the production in batch-wise Conformity verification Records on raw materials supplied to the production batch-wise	С	
b)	The organization must keep an inventory of chemicals used and the suppliers of each chemical product Conformity Verification Updated chemicals inventory	С	
c)	A sound chemical management plan must be developed and implemented to ensure the safe and proper use of hazardous/Non-hazardous chemicals, dangerous goods/controlled substances and to comply with applicable governmental regulations Conformity Verification Chemical Management Plan which includes the following as necessary: Legislation and Licensing, Signage & Placarding, Training & Induction, Personal Hygiene, Chemical Handling, Safety Data Sheets, Risk Assessment of Tasks Involving Chemicals, Labelling, Storage, Transportation of Chemicals, Chemical	С	
d)	Waste and Disposal and etc. Input/Raw materials must be non-toxic (within the allowable limit) to eliminate exposure to heavy metals (eg: mercury, lead, cadmium, hexavalent chromium, arsenic & antimony) and release of solvents.	С	
			

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(Ant				<u> </u>
	ormity verification			
	Records on Raw mat	•		
	Product Sample testProduct certificates	report		
e) .	The amount of raw mat	terials acquired locally showns a consumption to produce a u	uld be 5% or more than that ou unit of product	t of NC
Conf	ormity Verification			
	•		tent, source/location of mate	rial
f)	•	dded to products or used o	during manufacture	С
	ormity Verification			
	Final Products test r	•	dd	
		t of the final product shall	cement and any supplied not contain substances of	
Conf	ormity Verifications			
>		ed chemicals and material	s used in the manufacture	
	of cement			C
>	 Test Reports (do not very high concern.) 	t contain more than 0.1% i	by weight of substances of	
>		this direction shall he sun	ported by the safety data	
			r appropriate documents	
	obtained from their		при постания	
-	_		oust not be added to the prod	
		production process: Cadn	nium, Lead, Chromium VI, Arse	nic,
	Mercury, Selenium			
Conf	ormity Verification			
201110	•	eports (Treshold levels sho	uld be below 2ppm)	
			rs or alternative cements	С
•			ining compounds shall be	
	tested for VOC emissio	ns and shall comply with th	ne limits	
		Limits	Method	
		(after 28 days)		
	Total VOC	300 μg/m3	EN 16516	
	Formaldehyde	10 μg/m3		
	R-Value	< 1		
	Carcinogenic	1 μg/m3 per		
	1A and 1B	individual		
	VOCs listed in	substance		
	Annex H of EN 16516:2017			
	(excluding			
	formaldehyde			
		i		1
	The state of the s			
	and acetaldehyde)			

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_		T	1
	Conformity verification Test certificates as per the standards specified complying with the		
	limits		
<u> </u>	> Safety Data Sheets		
j)	Appropriate measures must be taken to eliminate the consumption of organic solvents/solvent base and the products must be waterborne/water base	С	
	Conformity verification > Test certificates as per the standards specified, Products records, etc		
k)	Appropriate measures must be taken to eliminate exposure to Free formaldehyde.	c	
	Formaldehyde; Free formaldehyde MUST not be intentionally added. Free formaldehyde in product MUST be 0.001% for coating products, 0.01 % for other dispersions		
	Conformity verification > Test reports or certificates confirming the absence/level of formaldehyde		
1)	Raw materials must be stored in a way that reduces spills, wastage and leaks. (Chemical raw materials are exempted under this criterion)	С	
	Conformity verification		
	➤ Site inspection		
4.5	Occupational Health and Safety and Responsible Chemicals Management		
	a) The manufacturing facility must maintain noise levels below the threshold limits	С	
	set by national or international noise regulations, particularly in areas		
	surrounding the factory and within worker environments.		
Co	onformity Verification		
	A noise management plan that details the use of noise-reducing equipment,		
	soundproof barriers, and restricted operating hours for noisy machinery.		
	Noise level monitoring reports, measured by accredited third parties, ensuring		
	compliance with acceptable limits such as EPL, OSHA or ISO 1996-1 standards. Verification through on-site checks to confirm the provision of hearing protection		
	devices and designated quiet zones within the factory, particularly for workers exposed to high noise levels.		
	b) The processing unit must have implemented an Occupational Health and Safety	NC	
	management system in accordance with ISO 45001:2018, guidelines or any other relevant standards.		
Co	nformity verification		
	➤ Valid certification of ISO 45001:2018 or any other relevant standard		
	c) All employees must receive adequate training on health and safety procedures relevant to their roles.	С	

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Conformity verification Records of employee training sessions (Frequency of Trainings – Once in 6 months) and photograph/video pieces Employee awareness will be assessed by interviews. Site verification to check use PPEs d) Emergency preparedness plan and a fire safety management plan must be effectively implemented within the facility. Conformity verification Emergency preparedness plan (Should include preparedness, prevention & response plan for chemical accidents)
 Records of employee training sessions (Frequency of Trainings – Once in 6 months) and photograph/video pieces Employee awareness will be assessed by interviews. Site verification to check use PPEs d) Emergency preparedness plan and a fire safety management plan must be effectively implemented within the facility. Conformity verification Emergency preparedness plan (Should include preparedness, prevention &
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Conformity verification > Emergency preparedness plan (Should include preparedness, prevention &
 Emergency preparedness plan (Should include preparedness, prevention &
 Emergency preparedness plan (Should include preparedness, prevention &
Fire safety management plan
➤ Accident Registr
➤ Records of Fire safety Drills — Once in 6 months
Records of Chemical safety drills
e) All employees who handling with chemicals and hazardous waste must be C
trained.
Conformity verifications
Records/evidences of training sessions
➤ Safety Data Sheets must be available in languages for workers to understand (at
least sections directly related to operational worker safety and storage
requirements, such as first aid, hazard, and flammability information)
> Interview workers
> Chemical safety drills
➤ Use PPEs
First aid Training records, Details of First aid team
f) The employees handling the equipment must be adequately trained and be
competent in using the equipment
Conformity verification
 Evidence (photographs, videos) on employee training and awareness in handling
equipment and machinery.
Interviewing of workers to assess their knowledge in machinery handling.
Competency matrix/ Training matrix of workers – ability/experience regarding
machine operations Documented Standard operation procedures/ with operation parameters
Details of reward system for best employees
g) The guidelines and protocols established for chemical handling must be
communicated to the relevant workers.
Conformity verification
Records, photographs, attendance sheets of awareness sessions to workers on safety handling of chemicals
safety handling of chemicals. On-site interviews with the workers to check on their level of understanding of
such protocols.
Display of Safety guidelines in languages for workers to understand (at least
sections directly related to operational worker safety and storage requirements,
such as first aid, hazard, and flammability information)

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h)	Measurers must be taken to avoid potential sources of ignition including banning smoking in and around facilities	C	
Confor	mity Verification		
	Documents of identification of potential risk areas		
>	Site verification		
>	Establishment of smoke alarms		
i)	The organization must implement measures to protect workers from ionizing radiation during operations involving XRF and XRD machines used in the analysis of clinker quality. The following measures must be adhered to:	С	,?
•	Provide suitable personal protective equipment (PPE), such as thyroid guards, to		
	all workers operating these machines.		
•	Equip the facility with GEIGER counters or radiometers to monitor radiation		
	levels, ensuring they remain within permissible safety thresholds.		
Confor	mity Verification:		
>	Documentation of PPE issuance (e.g., thyroid guards) and training on its proper		
	usage.		
>	Calibration certificates and monitoring records from GEIGER counters or radiometers.		
>	Workplace radiation level reports and corrective actions taken if limits are		
	exceeded		
	CACCCCC		
j)	The organization must maintain a comprehensive health and safety registry as	С	
, ,,	mandated by the Factory Ordinance. This registry must include details such as:		
•	Incidents and accidents in the workplace.		
•	Periodic inspections of safety equipment and practices.		
•	Actions taken to address identified health and safety risks.		
Confor	mity Verification:		
>	A copy of the health and safety registry in compliance with Factory Ordinance requirements.		
>	Records of workplace inspections, safety audits, and corrective measures.		
>	Evidence of periodic updates and management review of the registry		
	1 1 10 10 10 10 10 10 10 10 10 10 10 10		
k)	The organization must ensure that workers exposed to hazardous conditions	С	
7. (such as cement dust, ionizing radiation, and other occupational risks undergo		
	regular medical examinations. These tests must include:		
1.	Lung Function Tests : To monitor respiratory health due to exposure to cement		
	dust.		
2.	, ,		
	on the workplace environment.		

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Conformation Vanification	<u> </u>	
Conformity Verification:		
 Medical test records for workers in high-risk roles, including lung function test results. Reports on health monitoring programs, detailing test frequency and findings. Agreements with certified medical practitioners or occupational health services. 		
Follow-up records for workers requiring further medical attention or reassignment.		
4.6 Product Quality		
a) The product must be fit for its intended purpose and must meet performance	NC	
requirements of relevant national/International standards, or prove fitness for purpose with other appropriate documentation (standards/guidelines)		
Conformity Verification Test reports verifying the performance parameters of the product are met.		
b) Effective Quality Management System (QMS) or policies, procedures, and quality	NC	
plans/programmes should be implemented by the organization	, inc	
Conformity Verification		
➤ Valid ISO 9001 QMS Certificate/ GMP		
Records on Quality Policy, procedures, and quality plans/ programmes are maintained		
Training for Total Quality Management (TQM)		
c) The organization shall ensure that cement products comply with the national quality standards specified by the Sri Lanka Standards Institution (SLSI) and are monitored	M	
by the Consumer Affairs Authority (CAA) . The following measures must be implemented:		
 Obtain and maintain SLS certification for all cement products (e.g., SLS 107:2008 for Ordinary Portland Cement). 		
 Facilitate regular inspections and quality audits by the CAA to ensure compliance with national standards. 		
 Maintain clear documentation of quality control processes, including raw material inputs, production parameters, and final product testing. 		
Conformity Verification:		
> SLS certification for cement products issued by SLSI.		
 Inspection and monitoring reports from the CAA and/or SLSI. Documentation of quality control processes, including test results and corrective 		
actions for non-compliance.		
Records of compliance with labeling, packaging, and distribution requirements as mandated by the CAA.		

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4.7 Waste Water Management		
a) The organization shall be complied with Central Environment Authority (CEA) stipulated regulations before discharging water into the environment.	M	
Conformity Verification Treated waste water test reports (From Accredited laboratories)		
b) Untreated wastewater must not be discharged into nearby streams, paddy fields or other sensitive ecosystems (prevent wastewater from mixing with stormwater in the storm drain systems)	С	Ò
Conformity verification ➤ Onsite verification ➤ Plan of waste water treatment plant ➤ Certifications from the authorized body (Ex: CEA)		
c) Environmentally friendly biological treatment processes, such as high-rate anaerobic/aerobic systems or treatments developed by the recognized institute should be implemented, if no toxic substances are present in the wastewater.	NC	
Conformity verification Records/reports/procedures on such investments Certifications from the authorized body (Ex: CEA) -		
 d) A baseline for the volume of water discharged per unit of product should be defined by the manufacturing unit Conformity verification Developed benchmark (Volume of discharged per unit – liter/Ton cement) 	NC	
Records of wastewater generated and disposed Necessary must be practiced to reduce to waste water generation from the factory	NC	
e) Measures must be practiced to reduce to waste water generation from the factory Ex: Use dry cleaning methods wherever practicable for solids, (e.g. vacuum extraction, wipe down equipment that is accessible) rather than washing and rinsing them	NC	
Conformity verification Details of innovative methods Records of water usage(Closed loop) – Monthly records to check the effectiveness of the methods (Ex: reused or recycledetc)		
4.8 Solid Waste Management		
 a) Effective waste management policies and programmes/plans must be documented for hazardous and Non-Hazourdous solid waste with regard to the following; Quantities and types of waste recovered for reuse internally and externally; Quantities and types of waste recycled internally and externally; Quantities and types of waste disposed of to landfill; Information on disposal locations for all wastes; and Initiatives are taken to reduce waste generation and improve recovery/recycling of waste 	С	

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Conformity verification		
Copy of Waste Management policy and waste management Plan/Programmes		
The waste management plan should cover the following attributes as necessary		
Assigning a responsible person for managing waste on site., obtaining legal		
compliance for, managing waste., establishing goals and objectives., estimating		
the waste types and amounts involved., set targets for reducing the amount of		
each waste sent to landfill., describe recycling/reuse methods for each material.,		
identify the waste destinations and transport modes, including what materials		
are being segregated on-site for reuse or recycling., Track progress., Describe		
special measures for material use and handling., Describe communication and		
training to support and encourage participation from everyone on site., If		
applicable, describe the sequencing and methods for decer projects., Project		
review.		
Evidences of practicing waste management plan		
Evidences of practicing waste management plan		
b) A scheduled waste management license for the manufacturer for producing	M	
hazardous solid waste shall be obtained from Central Environmental Authority and		
implemented accordingly.		
Conformity verification		
 Valid scheduled waste management license 		
 Copy of contract/agreement with CEA certified third-party waste collection 		
agencies for safe disposal		
Site visits for Hazardous waste stores		
Record of hazardous waste generation is maintained		
c) Appropriate waste management practices (such as Collection, Monitoring and	С	
recording waste generation, Reuse, and recycling internally or externally), Provide		
waste to third-party for safe disposal. Consider choosing Central Environment (CEA)		
registered waste collecting agents must be implemented for Non-hazardous solid		
waste		
Ex: Encourage recycling of process waste, such as dust and kiln waste, to reduce		
landfill use.		
Conformity verification		
> Copy of contract/agreement with CEA certified third-party waste collection		
agencies for safe disposal		
· · · · · · · · · · · · · · · · · · ·		
Site visit for waste stores/yard		
Records of Non-hazardous waste generation are maintained		
d) The manufacturing waste should be directed for innovative avenues for	NC	
repurposing solid waste		
Conformity verification		
> Documents on research and development initiatives		
 Documents verifying partnerships or collaborations with research institutions or 		
industry experts to explore and implement innovative solutions		
4.9 Air Emissions		
a) Emissions to air shall not be exceeded the CEA stipulated limits to make it ensure the	М	
factory atmosphere is safe for its occupants.		
1.1.1.1. y alimospinal a la sala la rica adaupantar		
Conformity verification		
 Valid Environmental Protection License 		
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NATIONAL CLEANER PRODUCTION CENTRE, SRI LANKA ECO LABELLING CERTIFICATION SCHEME CERTIFICATION CRITERIA FOR ECO LABELLING OF CEMENT

b) The manufacturing facility must implement effective dust control measures to minimize the release of particulate matter into the environment through proper maintenance of machines and initiatives (e.g. isolated storage, separate process areas, enclosures, closed systems)	С
 Conformity Verification Inspect the facility to verify the implementation of dust suppression systems such as air filtration, vacuum systems A dust management plan that outlines control measures, including filtration systems, enclosed processes, and regular cleaning schedules. 	XŜ
c) Air emissions from the cement kiln shall not exceed the CEA stack emissions limits (Annexure 01)	M
Conformity Verification Continuous or discontinuous (no less than annually) stack emission monitoring reports for particulate matter, NO _x and SO ₂	
d) Emissions from the biomass/boiler operations shall not exceed the CEA Limits (Annexure 02) Conformity Verification	M
 Continuous or discontinuous (no less than annually) stack emission monitoring reports 	
4.10 GHG Emission Management	
 a) The processing unit should calculate, record, and maintain the Carbon footprint of the organization or the product. Conformity verification 	NC
 A transparent and verifiable method for calculating the carbon footprint. The calculation method should adhere to recognized standards like ISO standards. The documents on calculating methods should be available for review to ensure 	
transparency and accuracy.	
b) The processing unit should establish clear and achievable targets for reducing greenhouse gas (GHG) emissions.	NC
Conformity verification Documents on established targets for GHG emission reduction Records on regular monitoring and assessment of progress towards the set	
targets The records on implementation of corrective actions and continuous improvement initiatives	
c) The processing unit should implement carbon offsetting measures to compensate for unavoidable GHG emissions.	NC
Conformity verification	
Documentation showing the percentage of total GHG emissions offset	
Records of carbon offsetting projects, including certification by recognized	
standards (e.g., Verified Carbon Standard, Gold Standard)	1
 Sri Lanakan carbon crediting scheme (SLCCS) 	

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NATIONAL CLEANER PRODUCTION CENTRE, SRI LANKA **ECO LABELLING CERTIFICATION SCHEME CERTIFICATION CRITERIA FOR ECO LABELLING OF CEMENT**

d) The processing unit should adopt Science-Based Targets (SBTi) to guide their	NC
emissions reduction strategy, ensuring alignment with global climate goals.	
Conformity verification	
Documentation demonstrating participation in the Science-Based Targets	
Initiative (SBTi) and alignment of emission reduction targets with the initiative's	
criteria	
Evidence of validation or approval of emission reduction targets by the SBTi	
Periodic reports showing progress toward achieving SBTi targets, including	
updates on any revisions or enhancements based on the latest scientific findings	K O
1.11 Packaging & Labelling	
Product Packaging should be complied with at least one of the following to reduce	NC
the ecological impact of the packaging stage of the product life cycle:	
✓ Each material constituting >20% by weight of the total primary and secondary	
packaging used, must contain at least 30% recycled content by weight; or	
✓ Each material constituting >20% by weight of the total primary and secondary	
packaging used, must be derived from Bio-Degradable/compostable materials	
✓ Each separable item constituting >20% by weight of the total primary and	
secondary packaging, must be recyclable in Sri Lanka. or	
Paper and cardboard packaging must be either certified under recognised forest	
certification scheme (e.g. FSC or PEFC) or contain at least 20% recycled content	
by weight	
Conformality consideration	
Conformity verification	
MSDS of packing materials	
Records relevant to the packaging material procurement and consumption	NC
b) Unnecessary (over packaging) must be avoided	NC
Conformity verification	
·	
Records of quantities of packaging materials used	
c) Product packages/Labels shall be legibly printed with all the required information	M
specified in the Consumer Affairs Authority Act, No. 09 Of 2003/other international	
standards	
Conformity verification	
> Onsite verification of finished products/packages	
d) The manufacturer should provide relevant environment-related information (eg:	NC
recycle material content of the product, etc) on the label/packaging of the product	
Conformity verification	
Observations on the product label	NG
e) Advertisements on the product in communication media should deliver the	NC
environmental friendliness of the particular product	
Conformity vorification	
Conformity verification Observations on the product advertisements (leaflets/backlets, Organization)	
 Observations on the product advertisements (leaflets/booklets, Organization profile, ty/radio advertisement, etc.) 	
profile, tv/radio advertisement, etc	<u> </u>

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4.12 Ford Bundwisto Distribution		
4.12 End Products Distribution		
 a) Efficient transport modes/ plans should be used for finished product distribution to reduce related environmental impacts 	NC	
Conformity verification		
The transport management plan/Product distribution plan is maintained and		
implemented		
Details of the projects implemented and the efforts taken to minimize dust		
emission/material spillage due to transportation.	X	
Details of the safety precautions taken during transportation, photographic evidence.		
 Details of agreement with third parties and evidence on how it is practiced, 		
 Sustainable Transportation Procurement Policy of the Organization and proofs 		
for itsImplementation		
b) A real-time digital tracking/monitoring system (GPS) should be installed and	l NC	
maintained for product distribution management		
Conformity Verification		
Onsite verification of the digital tracking/monitoring system of the organization		
Phase 05: Consideration of the End-of-life phase	N.C	
 a) Appropriate initiatives/measures should be taken toward reducing the impact of the product's end-of-life phase by showing that; 	e NC	
✓ The product/packaging is recyclable at the end of its life/ elements that may	,	
prevent recycling have been avoided; or		
✓ Information is provided to the user on recycling of the product/ packaging (e.g		
possible options for recycling, with names of recycling facilities where possible)		
to minimize the amount of solid waste that ends up as land-fills		
Conformity verification		
> Description and proof of initiatives taken to reduce impact from usage and/or		
end-of-life phase of the product	. NG	
b) A mechanism for encouraging product take back should be implemented fo recycling or safe disposal at the end of useful life and which would involve;	r NC	
✓ Collection		
✓ Environmentally sound treatment of the collected product		
✓ Use of products & materials in the form of reuse or recycling		
Conformity verification Details of the mechanism in place for product takeback		
Quantity of reduction in product takeback		
Phase 06: Legal Requirements		
a) The Environmental Protection License (EPL) shall be obtained and all its requirements	М	
shall be implemented		
Conformity verification		
> Valid Environmental Protection License is available		
b) All production activities and products shall comply with the requirements of the	М	
relevant national legislation in Sri Lanka		
Conformity verification		
 Compilation of all the applicable Environmental and other Regulations is 		
maintained		
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Phase 07: Bio	diversity Conservation Initiatives				
	t manufacturers should invest in biodiversity offset programs if their	NC			
•	INC				
	ions result in unavoidable impacts on ecosystems. This could include ting local conservation projects or establishing protected areas.				
supporting local conservation projects or establishing protected areas.					
Confor	mity Verification				
	s on biodiversity conservation initiatives, including reforestation projects				
	ries must be implemented to monitor post-remediation period	С			
Conformity V					
>	Details of the monitoring plan and bioassays conducted				
>	Photographic evidence of the corrective actions taken				
>	Hydrological survey report for water table management				
>	Documentary evidence such as study reports, photo graphs for restoration				
	of spent mines and Green Belt development				
16 41					
if the supplier	r is beyond the control of the manufacturer due to reasonable facts,				
Conformity V	orification				
	Certificates of environmental conformance received from the supplier.				
	Site visit records by the manufacturer				
	Photographs of the site visits conducted				
	Agreements with the supplier (Refer the clauses relate to environmental				
	aspects)				
c) Encour	age the rehabilitation of degraded land around cement plants by restoring	NC			
· ·	I habitats that promote biodiversity.				
Conformity V	erification				
>	Reports on and rehabilitation efforts				
>	Quarry/ Site Restoration Plan and demonstration of efforts towards				
	following. a) Restoration of spent mines b) Green belt development and				
	bio diversity c) Water table management d) Top soil conservation				
Phase 08: Soc	cial Responsibility				
a) Work	er Rights and Fair Wages	M			
The manufac	cturing units must ensure that all workers receive fair wages, work in safe				
cond	litions, and have their rights protected in line with national and				
inter	rnational labor standards.				
Conformity ve					
Employment records showing compliance with wage and hour laws, ensuring fair					
compensation.					
Documentation of worker contracts and adherence to national and international					
labor rights conventions (e.g., ILO standards).					
	rts on working conditions and regular audits of labor practices.				
	Evidence of grievance mechanisms for addressing worker concerns.				
> Job Satisfaction records					
CSR Pr	CSR Projects				

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Annexure 01

CEMENT KILNS

Rated Output	Type of Pollutant	Emission Limit	
Capacity (C)		Existing *	New **
Any	Particulate Matter (PM)	400mg/Nm³	200mg/Nm³
	Sulfur Dioxide (SO ₂)	540mg/Nm ³	270mg/Nm³
	Nitrogen Oxides (NO _x)	1250mg/Nm³	1000mg/Nm ³
	Smoke	20% Opacity	20% Opacity

- * Cement kilns in existence prior to the date of operation of these regulations.
- ** Cement kilns which will commence operation after the date of operation of these regulations.

Annexure 02 BOILERS

	I		
Fuel	Rated Output Capacity (C)	Type of Pollutant	Emission Limit
Oil	C<2 metric tons of steam/hour	Particulate Matter (PM), Sulfur Dioxide (SO ₂), Nitrogen Oxides (NO _x) Smoke	Shall be controlled by fuel quality and stack height as set out in Regulations 11 and 12 20% Opacity
	<u>C></u> 2 metric tons of steam/hour	Sulfur Dioxide (SO ₂) Nitrogen Oxides (NO _x) Smoke	Shall be controlled by fuel quality and stack height as set out in Regulations 11 and 12 15% Opacity
		Particulate Matter (PM)	100mg/Nm³
	C<2 metric tons of steam/hour	Particulate Matter (PM) Nitrogen Oxides (NO _x) Smoke	Shall be controlled by stack height as set out in Regulations 11 20% Opacity
Bio mass	C>2 metric tons	Nitrogen Oxides (NO _x)	Shall be controlled by stack height as set out in Regulations 11
	of steam/hour	Smoke Particulate Matter (PM)	15% Opacity 200mg/Nm³
Coal	C<2 metric tons of steam/hour	Particulate Matter (PM), Sulfur Dioxide (SO ₂), Nitrogen Oxides (NO _x) Smoke	Shall be controlled by fuel quality stack height as set out in Regulations 11 and 12 20% Opacity
	C≥2 metric tons of steam/hour	Nitrogen Oxides (NO _x) Sulfur Dioxide (SO ₂)	500mg/Nm³ 850mg/Nm³
	or steam, nour	Smoke Particulate Matter (PM)	20% Opacity 150mg/Nm³

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INSTRUCTIONS FOR USERS

This criteria document contains 83 requirements; 13 Mandatory requirements, 37 critical requirements, and 33 non-critical requirements. Marks are allocated for each criterion except Mandatory criteria. At least 70% of the total marks allocation (284) for the criteria shall be scored by the applicant for being successful in the Eco Labelling certification process.

Requirement	Total Marks
Critical (C)	37*5 = 185
Non-critical (NC)	33*3 = 99

Mandatory Requirements

When the adequacy audit of the organization's application is conducted, there shall be no non-compliance related to the mandatory requirements, and if any nonconformity is reported during the adequacy audit stage or the certificate audit, a major nonconformity will be raised, and that shall be corrected within two months of the certification Audit.

Critical Requirements

If any violation of critical requirements is found during the verification visit, a minor nonconformity will be raised, and suitable corrective action shall be taken within two months.

Non-critical Requirements

If any non-compliance of non-critical requirements is found during the certification Audit, it will be considered as an observation for the improvement. The effectiveness of the corrective actions taken for the observations raised will be audited in the next surveillance audit.

Note: Until the non-conformities are addressed, the marks should not be released to the governing council, and the certificate should not be granted

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Guideline for Marks Allocation;

The below guidelines are to be followed while assessing the implementation of criteria requirements. Marks allocation should be based on the level of implementation and the availability of sufficient evidence.

- ✓ Criteria 1: Full Marks allocation:
 - The criteria requirement has been fully implemented.
 - If sufficient evidence exists, the full marks mentioned in the mark's column can be given.
- ✓ Criteria 2: 70%-80% Marks (Improvement Opportunities)
 - The criteria requirement has been fully implemented.
 - However, sufficient evidence does not exist or has not been maintained.
 - In such cases, 80% of the allocated marks can be given.
- ✓ Criteria 3: 60%-50% Marks (Improvement Opportunities)
 - The criteria requirement has been implemented partially.
 - If sufficient evidence exists, 50% of the allocated marks can be given.
- ✓ Criteria 4: 30%- 20% Marks (Improvement Opportunities)
 - The criteria requirement has been implemented partially.
 - However, sufficient evidence does not exist or has not been maintained.
 - In such cases, 30% of the allocated marks can be given.
- ✓ Criteria 5: 0 Marks Non-Conformity (Critical Requirement)
 - The criteria requirement has not been implemented.
 - If it's a critical (C) requirement, it must be raised as a Non-Conformity.
 - In this case, 0 marks should be given.
- ✓ Criteria 6: 0 Marks Observation (Non-Critical Requirement)
 - The criteria requirement has not been implemented.
 - If it's a non-critical (NC) requirement, it must be raised as an observation.
 - In this case, 0 marks should be given.

During the mark allocation process, the team of auditors engages in discussions based on the audit findings, which include document reviews, observations, interviews, and other relevant sources of information. These discussions serve to ensure accuracy and prevent inconsistencies in the marks assigned. By collectively evaluating the evidence and considering different perspectives, the team strives to reach a consensus on the appropriate allocation of marks. This collaborative approach helps to enhance the fairness and reliability of the mark allocation process, allowing for a more comprehensive and well-rounded assessment.

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