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.

1. 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.

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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

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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	
 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	

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e by the National C
ation of the Raw Material
m the supplier.
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elate to environmental

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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 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. 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 supplier's engagement with relevant environmental impacts management	М	
c) Industrial and Construction Mineral Extraction sites must not be established in areas of high conservation value, such as primary forests, wetlands, or other protected areas.	С	
 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		
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 evidence 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	С	
impacts Conformity verification		
 Copy of Signed Agreement A sustainable transportation procurement policy Details of the projects implemented and the efforts are taken to minimize dust emission/material spillage reduction due to transportation. 		

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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 		
b) Documented Environmental Management Roadmap must be developed to address the potential environmental problems of the organization	С	
Conformity verification 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	NC	
Eg: specific water consumption in m³ / litres (m³/Kg, m³/MT) of product manufactured or 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 wavification		
	Conformity verification Details of annual production, annual water consumption & Specific water		
	consumption for 3 years		
	consumption for 5 years		
e)	Water conservation techniques and technologies must be implemented so	NC	
	that water efficiency is maintained		
	Conformation varieties		
	Conformity verification		
	Site inspection regarding the implementation of Water conservation techniques and technologies,		
	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		
	manufacturing facility		
	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	
67	maintained.		
Cor	nformity verification		
	> The transparent and verifiable calculation method is available		
h)	A Method must be introduced and implemented for continuous monitoring	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)		
	progress to the relevant authornes (eg. top management)		
	Conformity verification		
	Progress report		
	Impact/water Assessment Reports		
	Management review meeting minutes, etc		
	4.3 Energy Resource Consumption and Conservation		
a)	Infrastructure must be maintained to quantify the energy (Renewable and Non-	С	
	renewable) usage for industrial processes and other purposes in the organization		
	Conformity verification		
	Electricity sub-metering facilities established in the organization		
	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)	Organization benchmark/baseline for energy consumption should be established and	С	
	monitored continuously.		<u> </u>

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Prepared by : CM

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

(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		
 c) Organization should set a annual target based on the baseline performace and potential for reduction of the specific electricity consumption (Reduction in specific electricity consumption ≥ 5% - 1 mark Reduction in specific electricity consumption ≥ 10% - 2marks 	NC	
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 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	NC	
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-site) with renewable energy (Eg: biomass, solar power, hydropower, etc)	NC	
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 with waste-derived fuels (WDF), such as sustainable biomass (Rice husks, sawdusts)	NC	
or industrial waste		
Conformity Verification		
➤ Energy usage reports from the past three years showing improvements in		

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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 	NC	
 Records on Energy management Policy, procedures, and energy management programmes are maintained 		
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	С	
> Progress report		
Impact/Energy Assessment Reports, Management review meeting minutes		
4.4 Raw Material Consumption		
 a) The organization must maintain records on raw materials supplied to the production in batch-wise Conformity verification 	С	
 Records on raw materials supplied to the production batch-wise The organization must keep an inventory of chemicals used and the suppliers of each chemical product 	С	
Conformity Verification Updated chemicals inventory		
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	С	
 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 Waste and Disposal and etc. 		
d) 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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Con	formity verification				
	Records on Raw m	aterial consumption			
	Product Sample te	•			
	Product certificate	s			
e)		aterials acquired locally shown in the state of the state	uld be 5% or more than that out of unit of product	NC	
Con	formity Verification				
	-		tent, source/location of material		
f)	Asbestos must not be	added to products or used of	luring manufacture	С	
Con	formity Verification				
	Final Products test	reoports			
		used in the production of	cement and any supplied		
	materials that form p	art of the final product shall	not contain substances of		
	very high concern (SV	HC).			
~	Const. Madfinallana				
	formity Verifications Perords of all supr	olied chemicals and material	s used in the manufacture		
	of cement	oned chemicals and material	s used in the mandracture	С	
		ot contain more than 0.1% I	ov weight of substances of		
	very high concern.				
	, -	this direction shall be sup	ported by the safety data		
	The declaration in sheets (SDS) of o	chemicals and materials o			
	The declaration in	chemicals and materials o			
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	The declaration in sheets (SDS) of obtained from the	chemicals and materials o ir suppliers. nces or their compounds m	r appropriate documents ust not be added to the product	С	
	The declaration in sheets (SDS) of contained from the The following substaintentionaly during the	chemicals and materials o ir suppliers. nces or their compounds m	r appropriate documents	С	
	The declaration in sheets (SDS) of obtained from the	chemicals and materials o ir suppliers. nces or their compounds m	r appropriate documents ust not be added to the product	С	
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h) Con	The declaration in sheets (SDS) of contained from the obtained from the The following substaintentionally during the Mercury, Selenium formity Verification Final Products test	chemicals and materials of ir suppliers. nces or their compounds mane production process: Cadn	ust not be added to the product nium, Lead, Chromium VI, Arsenic, uld be below 2ppm)		
h)	The declaration in sheets (SDS) of contained from the Obtained from the The following substaintentionally during the Mercury, Selenium Final Products test Any cement product	chemicals and materials of ir suppliers. nces or their compounds mane production process: Cadnot reports (Treshold levels shows based on hydraulic binders)	ust not be added to the product nium, Lead, Chromium VI, Arsenic, uld be below 2ppm)	C	
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h) Con	The declaration in sheets (SDS) of cobtained from the Obtained from the The following substatintentionally during the Mercury, Selenium Final Products test Any cement product that have been surfatested for VOC emissions Total VOC Formaldehyde R-Value Carcinogenic 1A and 1B VOCs listed in Annex H of EN 16516:2017 (excluding formaldehyde	chemicals and materials of ir suppliers. Inces or their compounds many production process: Cadnot see process: Cadnot se	ust not be added to the product nium, Lead, Chromium VI, Arsenic, uld be below 2ppm) rs or alternative cements ining compounds shall be the limits Method		
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1	Conformity varification		
	Conformity verification Test certificates as per the standards specified complying with the		
	limits		
	> Safety Data Sheets		
j)	·	С	
•	organic solvents/solvent base and the products must be waterborne/water		
	base		
	Conformity verification		
	Test certificates as per the standards specified, Products records, etc		
k)	Appropriate measures must be taken to eliminate exposure to Free	С	
	formaldehyde.		
	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		
		С	
I)	Raw materials must be stored in a way that reduces spills, wastage and leaks.		
	(Chemical raw materials are exempted under this criterion)		
	Conformity verification		
	Site inspection		
4.5	5 Occupational Health and Safety and Responsible Chemicals Management		
	a) The manufacturing facility must maintain noise levels below the threshold limits	_	
	set by national or international noise regulations, particularly in gross	С	
	set by national or international noise regulations, particularly in areas	С	
	set by national or international noise regulations, particularly in areas surrounding the factory and within worker environments.	С	
С	•	С	
C	surrounding the factory and within worker environments.	С	
C	surrounding the factory and within worker environments. onformity Verification A noise management plan that details the use of noise-reducing equipment, soundproof barriers, and restricted operating hours for noisy machinery.	С	
С	surrounding the factory and within worker environments. 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	С	
С	surrounding the factory and within worker environments. 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.	С	
С	surrounding the factory and within worker environments. 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	С	
С	surrounding the factory and within worker environments. 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	C	
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			T
Confor	mity 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.	С	
Confor	mity verification		
>	Emergency preparedness plan (Should include preparedness, prevention & response plan for chemical accidents)		
>	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	С	
	trained.		
Confor	mity 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	С	
.,	competent in using the equipment		
Confor	mity 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	С	
	communicated to the relevant workers.		
	mity verification		
>	Records, photographs, attendance sheets of awareness sessions to workers on		
	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		
	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	С	
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.		
F	Calibration certificates and monitoring records from GEIGER counters or radiometers.		
>	Workplace radiation level reports and corrective actions taken if limits are		
	exceeded		
;\	The organization must maintain a comprehensive health and safety registry as	С	
j)	mandated by the Factory Ordinance. This registry must include details such as:	C	
•	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		
k)	The organization must ensure that workers exposed to hazardous conditions	С	
	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.	Any other specific tests recommended by occupational health guidelines based on the workplace environment.		

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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 requirements of relevant national/International standards, or prove fitness for purpose with other appropriate documentation (standards/guidelines) Conformity Verification	NC	
 Test reports verifying the performance parameters of the product are met. Effective Quality Management System (QMS) or policies, procedures, and quality 	NC	
plans/programmes should be implemented by the organization 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 by the Consumer Affairs Authority (CAA). The following measures must be implemented:	M	
 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)	M	
stipulated regulations before discharging water into the environment.		
Conformity Verification		
> Treated waste water test reports (From Accredited laboratories)		
b) Untreated wastewater must not be discharged into nearby streams, paddy	С	
fields or other sensitive ecosystems (prevent wastewater from mixing with	C	
stormwater in the storm drain systems)		
Conformity verification		
> Onsite verification		
 Plan of waste water treatment plant Certifications from the authorized body (Ex: CEA) 		
Certifications from the authorized body (Ex. CEA)		
c) Environmentally friendly biological treatment processes, such as high-rate	NC	
anaerobic/aerobic systems or treatments developed by the recognized institute		
should be implemented, if no toxic substances are present in the wastewater.		
Conformation will action		
Conformity verification		
 Records/reports/procedures on such investments Certifications from the authorized body (Ex: CEA) 		
- Certifications from the authorized body (Ex. CEA)		
d) A baseline for the volume of water discharged per unit of product should be defined	NC	
by the manufacturing unit		
Conformity verification		
Developed benchmark (Volume of discharged per unit – liter/Ton cement)		
Records of wastewater generated and disposed		
e) Measures must be practiced to reduce to waste water generation from the factory	NC	
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		
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	С	
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 loss tions for all wastes; and		
 Information on disposal locations for all wastes; and Initiatives are taken to reduce waste generation and improve 		
5		
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recovery/recycling of waste		

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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		
b) A scheduled waste management license for the manufacturer for producing	М	
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 		
Record of flazardous 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.		
Conformity verification		
Valid Environmental Protection License	5	: CC-EL-XX
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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. 		
c) Air emissions from the cement kiln shall not exceed the CEA stack emissions limits (Annexure 01)	М	
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)	M	
Conformity Verification		
Continuous or discontinuous (no less than annually) stack emission		
monitoring reports		
4.10 GHG Emission Management		
 The processing unit should calculate, record, and maintain the Carbon footprint of the organization or the product. 	NC	
Conformity verification		
 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 Description of the conformity of the conformity verification and the 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)		
Sri Lanakan carbon crediting scheme (SLCCS)		

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d) The agree size with the old adout Crises a Dood Treats (CDT) to guide the in	NC	
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		
4.11 Packaging & Labelling		
a) 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		
Conformity verification		
Conformity verification MSDS of packing materials		
MSDS of packing materials		
 MSDS of packing materials Records relevant to the packaging material procurement and consumption 	NC	
MSDS of packing materialsRecords relevant to the packaging material procurement and consumption	NC	
MSDS of packing materialsRecords relevant to the packaging material procurement and consumption	NC	
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 ➤ MSDS of packing materials ➤ Records relevant to the packaging material procurement and consumption b) Unnecessary (over packaging) must be avoided Conformity verification ➤ Records of quantities of packaging materials used c) Product packages/Labels shall be legibly printed with all the required information 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: recycle material content of the product, etc) on the label/packaging of the product Conformity verification ➤ Observations on the product label e) Advertisements on the product in communication media should deliver the 	M NC	

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4.12	End Products Distribution		
a) E	fficient transport modes/ plans should be used for finished product distribution to	NC	
r	educe related environmental impacts		
	Conformity verification		
)	The transport management plan/Product distribution plan is maintained and implemented		
7			
	emission/material spillage due to transportation.		
7			
	evidence.		
7	, , ,		
7			
I- \ /	for itsImplementation	NC	
-	real-time digital tracking/monitoring system (GPS) should be installed and naintained for product distribution management	NC	
'	lanitanieu foi product distribution management		
Conf	ormity Verification		
	Onsite verification of the digital tracking/monitoring system of the organization		
	e 05: Consideration of the End-of-life phase		
a)	Appropriate initiatives/measures should be taken toward reducing the impact of the	NC	
	product's end-of-life phase by showing that ;		
٧	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).		
	nossible obtions for recycling with names of recycling facilities where possible).		
	to minimize the amount of solid waste that ends up as land-fills		
Conf	to minimize the amount of solid waste that ends up as land-fills		
	to minimize the amount of solid waste that ends up as land-fills		
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Phase 07: Biodiversity Conservation Initiatives				
 a) Cement manufacturers should invest in biodiversity offset programs if their operations result in unavoidable impacts on ecosystems. This could include supporting local conservation projects or establishing protected areas. 	NC			
Conformity Verification				
Reports on biodiversity conservation initiatives, including reforestation projects				
b) Strategies must be implemented to monitor post-remediation period	С			
Conformity Verification				
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				
If the supplier is beyond the control of the manufacturer due to reasonable facts,				
Conformity Verification				
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) Encourage the rehabilitation of degraded land around cement plants by restoring	NC			
natural habitats that promote biodiversity.				
Conformity Verification				
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: Social Responsibility	l			
a) Worker Rights and Fair Wages	M			
The manufacturing units must ensure that all workers receive fair wages, work in safe				
conditions, and have their rights protected in line with national and international labor standards.				
Conformity verification				
 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).				
Reports on working conditions and regular audits of labor practices.				
Evidence of grievance mechanisms for addressing worker concerns.				
> Job Satisfaction records				
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/Nm ³
	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

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	Sulfur Dioxide (SO ₂) Nitrogen Oxides (NO _x)	Shall be controlled by fuel quality and stack height as set out in Regulations 11 and 12
	of steam/hour	Smoke Particulate Matter (PM)	15% Opacity 100mg/Nm³
	C<2 metric tons of steam/hour	Particulate Matter (PM) Nitrogen Oxides (NO ₂) 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) Smoke	500mg/Nm³ 850mg/Nm³ 20% Opacity
		Particulate Matter (PM)	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.

Marks Allocation	
Critical requirements	5
Non-Critical requirements	3
·	

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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