ECO LABEL CRITERIA FOR TEXTILE AND APPARELS

ECO LABEL SRI LANKA
National Cleaner Production Centre, Sri Lanka.
August 2023

1. Introduction

1.1 The Certification Scheme for Eco Labelling of Products/Services of the National Cleaner Production Centre, Sri Lanka (NCPCSL) 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 have been established for products/ services to be eligible for the eco-label. These criteria have been based on scientific evidence and consider the entire product life cycle.
- Independent Third-Party Verification: NCPC SL conducts 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, have 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.

1.2 This document sets out specific managerial and technical criteria for raw material extraction, transportation, manufacturing, dispatch of Textile and Clothing products for sale, etc. Following the terminologies and aspects related to the concepts of sustainability management, during the processes involved. The aspects related to sustainability management described in this document can be environmental impacts, energy and water security or socio-economic development, or any combination thereof.

1.3 The certification of Eco Labelling of Textile and Clothing Products is implemented on a set programme operated over a specified period as agreed with relevant parties. The NCPCSL functions as the scheme owner of this certification scheme. This document includes environmental criteria, function characteristics, and legal requirements related to Textile and Clothing Products.

1.4 This specific product environmental criteria document has been prepared by the Expert Committee on Eco Labelling appointed by the NCPCSL and authorized for adoption by the Governing Council of NCPCSL. The Textile and Clothing products 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 NCPCSL guideline;

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

1.5 This document supplements the below guidelines and provides guidance for the certification of Textile and Clothing products for both Assessors 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

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

1.7 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 that, although not mandatory, is provided by NCPCSL as a recognized means of meeting the requirements of the standard. The term ‘should’ is used to indicate recommendations for implementation.

1.8 The Client should submit the relevant pieces of evidence for conformity verification for the last calendar year

1.9 Only test reports generated by laboratories accredited according to ISO/IEC 17025, which outlines the general requirements for the competence of testing and calibration laboratories, will be considered valid. Additionally, verifications in the form of test reports from other certificates, including but not limited to the Blue Angel-Germany, EU Ecolabel, OEKO-TEX® Association, Global Organic Textile Standard (GOTS), Austrian Environmental Label, Internationaler Verband der Naturtextilwirtschaft e.V. (IVN) Best, bluesign®, Fairtrade Textile, Global Recycled Standard (GRS), Recycled Claim Standard (RCS), and Cradle to Cradle, will be accepted if they adhere to specified limit values.

1.10 For process-related verifications across different sections, the relevant test reports should not exceed a duration of two years from the application date. Similarly, the necessary test reports for assessing the ingredients within the materials incorporated into the products and evaluating the product's suitability for use in various sections should not be older than one year at the time of application.

2. References

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

2.1 ISO 14020 – Environmental labels and declarations - General principles

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

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

3. Terms and definitions

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

a. **Conformity**: fulfillment of a requirement
Note: Conformance and compliance are synonymously used for conformity but deprecated.
b. **Verification:** Confirmation through the provision of objective evidence that specified requirements have been fulfilled.
c. **Organization:** The Applicant organization hereinafter referred to as an organization.

4. Certification Criteria

The criteria are aimed, particularly, at identifying products with a reduced environmental impact throughout their entire life cycle. These criteria focus on specific enhancements that enable products to be: sourced from more sustainable practices, manufactured with heightened resource and energy efficiency, produced through cleaner and less polluting processes, composed of fewer hazardous substances, and designed and specified for superior quality and durability. The criteria established for awarding the Ecolabel - Sri Lanka to textiles and apparel products encompass these aforementioned aspects, thereby encouraging the promotion of products that exhibit enhanced performance in these domains.

Consequently, it is pertinent to institute Ecolabel - Sri Lanka criteria for the product category 'textiles and apparel'. The Ecolabel - Sri Lanka distinction may be conferred upon products that demonstrate a diminished environmental footprint over their entire life cycle.

Certification Criteria Requirements	Weighting Factor
4) Phase: Product design for Sustainability	
a) The organization must have a process to consider the environmental impacts of the life cycle of the product into the designing stages to minimize associated impacts *Conformity verification* ➢ Strategies adopted at design & Manufacturing Process/Operations to improve environmental performance of the product ➢ resource allocation for improving the design of the product & manufacturing of the product ➢ Details of the Stakeholder engagement ➢ Implemented measures and addressed environmental Impacts ➢ R & D plans, test reports, etc ➢ LCA reports	C
b) The organization should have adopted proactive environmental management tools/ methodologies for the above process of Product design for sustainability *Conformity verification* ➢ Report or records on product design and development process (Ex: Eco designing)	NC
c) The organization should take measures to leverage design and product development capability *Conformity verification* ➢ Creating an in-house design studio to cater to customer requirements ➢ Establishing product development capabilities to move up the value chain ➢ E-fit simulation for product development ➢ Optimizing pattern layout to save costs ➢ Any other initiatives	NC
5) Raw Materials/Chemical Extraction	
Responsible acquisition of raw materials	
a) The organization must have sufficient evidence to prove that the environmental impacts have been taken into consideration and addressed in the upstream of the supply chain *Conformity verification* ➢ Raw material supplier evaluation records on environmental concerns ➢ Certifications relevant to the raw materials ➢ Test reports and other relevant records of the raw materials obtained from accredited laboratories ➢ OECO Test reports and MRSL Test reports	C
b) The organization must consider the environmental impacts of the input materials in their procurement process and the organization must adhere to the green procurement guidelines in the procurement process/policy *Conformity verification*	C

➢ Availability of green procurement guidelines in the procurement process/policy ➢ Records on green procurements	
6) Raw material Transport to the factory	
a) The organization should reduce the environmental impacts related to inbound and outbound transportation *Conformity verification* ➢ The records on oil/fuel consumption for transportation are maintained ➢ Emission test reports of the vehicles ➢ Evidence for green practices such as two-mode transportation etc. **Or** b) If the inbound and outbound transportation is carried out by a third party, appropriate measures should be taken to reduce associated environmental impacts with the involvement of the relevant party (Eg: conditions through agreements) *Conformity verification* ➢ Copy of Signed Agreement ➢ Details of the projects implemented and the efforts taken to minimize dust emission/material spillage reduction due to transportation. ➢ Details of the safety precautions taken during transportation, photographic evidences.	NC
7) Manufacturing Process	
7.1 General Requirement-Environmental Management System	
a) The Environmental Protection License (EPL) shall be obtained and implemented all its requirements *Conformity verification* ➢ Valid Environmental Protection License is available	M
b) All production activities and products shall comply with the requirements of the relevant national legislation in Sri Lanka and the organization must possess a compilation of applicable Environmental Regulations *Conformity verification* ➢ A complete compilation is available	M
c) Effective Environmental management system (EMS) policies, procedures, and environmental management programmes should be implemented by the organization *Conformity verification* ➢ Valid ISO 14001 EMS Certificate ➢ Records on Environmental Management Policy, procedures, and environmental management programmes are maintained	NC
d) A documented Environmental Management Roadmap must be developed to address the	C

potential environmental problems of the organization *Conformity verification* ➢ Environment management roadmap of the organization	
7.2 Water resource consumption and conservation	
a) The documented Water distribution system/Plan must be available for the facility level *Conformity verification* ➢ Documented water distribution system/Plan	C
b) Infrastructure must be maintained to quantify the water usage for industrial processes and other purposes in the organization *Conformity verification* ➢ *Total Water supply metering and submetering facilities established in the organization* ➢ *Water consumption records are maintained on a daily basis*	C
c) The organization should implement a water balance/water assessment/audit, internally or externally to evaluate the water intake/input vs. usage/output *Conformity verification* ➢ Water assessment/analysis report ➢ Records on tracking and reporting program including all relevant water sources of the organization	NC
d) The water analysis report of the organization should readily verifiable via documented records and supporting evidence with all data sources. *Conformity verification* ➢ Documented records and supporting evidence with all data sources (e.g. water bills, meter readings, etc.), assumptions used (e.g., estimation techniques), and calculation methodologies in data inventories	NC
e) Company benchmark/baseline for water consumption should be established and monitor on a continuous basis Eg: specific water consumption in m^3 / liters (m^3/Kg, m^3/T, m^3/PCs) 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 company benchmarks including comparisons with previous two years or national and international benchmarks.	NC
f) The organization must identify significant water uses of the process/facility and take measure to reduce consumption *Conformity verification* ➢ Records on water consumption	C
g) The organization must set targets for reducing water use from any sources *Conformity verification*	C

➢ Documented records on targets and their achievement	
h) The organization must have an implementation plan to reduce water consumption and improve water efficiency *Conformity verification* ➢ Documented records on Planning for implementation	C
i) Specific water consumption should be reduced by a minimum of 3% from the baseline/Base year has to be reported *(Reduction in specific water consumption ≥ 3%* *Reduction in specific water consumption ≥ 5%* *Reduction in specific water consumption ≥ 7%)* *Conformity verification* ➢ Details of annual production, annual water consumption & Specific water consumption for 3 years	NC
j) Water conservation techniques and technologies must be implemented to reduce water consumption and increase water efficiency *Conformity verification* ➢ *Site inspection regarding the implementation of Water conservation techniques and technologies,* ➢ Details of annual water consumption & Specific water consumption (Reduction in specific water consumption ≥ 7% from the previous year Reduction in specific water consumption ≥ 3% from the previous year Reduction in specific water consumption ≥ 5%) from the previous year	C
k) At least 5% of the total annual water consumption (Considering agro-ecological conditions in the region) should be from the harvested rainwater that runoff from roof & non-roof areas of the manufacturing facility *Conformity verification* ➢ Factory observations of the operating rain water harvesting system ➢ Quantitative information of the rain water collected monthly/ annually	NC
l) Organizational/product level water footprint should be calculated, recorded, and maintained. *Conformity verification* ➢ *The transparent and verifiable calculation method is available*	NC
m) A Method must be introduced and implemented to make sure that the water-saving efforts have been effective and communicating the progress to the relevant authorizes (Eg: top management) *Conformity verification* ➢ Progress report ➢ Impact/water Assessment Reports ➢ Management review meeting minutes, etc	C

7.3 Energy resource consumption and conservation	
a) Infrastructure must be maintained to quantify the energy (Renewable and Non-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 basis* ➢ *Metering facilities for measuring renewable energy consumption/production are established in the organization and records are maintained*	C
b) The organization must conduct an energy balance/Energy assessment/audit, internally or externally to evaluate the Energy consumption of the facility *Conformity verification* ➢ Energy Audit/assessment/analysis report ➢ Records on tracking and reporting program including all relevant energy sources of the organization	C
c) The organization must establish baselines/benchmark for Electrical energy use and monitor on a continuous basis (KWh / Piece, KWh / kg, KWh / T, KWh / MT) of products produced *Conformity verification* ➢ Details of annual/monthly production, energy consumption & specific energy consumption for the preceding at least 2 years	C
d) The organization must establish baselines/benchmark for thermal energy consumption and monitor on a continuous basis and specific thermal energy consumption in MJ/Pieces, MJ / kg, MJ / T ,MJ/MT) of products produced *Conformity verification* ➢ Details of annual/monthly production, thermal energy consumption & specific energy consumption for the preceding at least 2 years	C
e) The organization should substitute nonrenewable energy sources (On-site & off site) with renewable energy (Eg: biomass ,solar power, hydro powered,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	NC
f) The organization should identify significant Energy uses of the process/operations and take measures to reduce consumption *Conformity verification* ➢ Energy assessment report	NC
g) The organization must set targets for reducing energy consumption and improve efficiency *Conformity verification*	C

h) The organization should set targets for reducing the facility overall GHG emissions *Conformity verification*	NC
i) The organization should have an implementation plan to reduce energy consumption and improve energy efficiency and reduce GHG emissions *Conformity verification*	NC
j) Appropriate measures (Eg: Fuel switching, waste heat recovery applications, etc) must be implemented to improve energy efficiency in the organization *Conformity verification* ➢ *Site inspection relevant to the energy efficiency measures implemented* ➢ *Records on energy savings done through such implementation, investment records, etc*	C
k) Specific electricity consumption should be reduced by a minimum of 3% from the baseline/Base year has to be reported (Reduction in specific electricity consumption ≥ 3% Reduction in specific electricity consumption ≥ 5% Reduction in specific electricity consumption ≥ 10%) *Conformity verification* ➢ Details of annual production, energy consumption & specific energy consumption for at least 2 years ➢ Details of implementation of energy efficiency improvement measures with actual benefits achieved	NC
l) Specific thermal energy consumption should be reduced by a minimum of 3% from the baseline/base year has to be reported *(Reduction in specific electricity consumption ≥ 3%* *Reduction in specific electricity consumption ≥ 5%* *Reduction in specific electricity consumption ≥ 10%)* *Conformity verification* ➢ Details of annual production, energy consumption & specific energy consumption for the preceding 2 years ➢ Details of implementation of energy efficiency improvement measures with actual benefits achieved	NC
m) 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

n) Organizational/Project level/product carbon footprint (assertion of GHG emissions and removals) should be calculated, recorded, and maintained. *Conformity verification* ➢ *A transparent and verifiable calculation method is available*	NC
o) A Method must be introduced and implemented to make sure that the Energy-saving efforts have been effective and communicate the progress to the relevant authorizes (eg: top management) *Conformity verification* ➢ Progress report ➢ Energy Assessment Reports ➢ Management review meeting minutes, etc	C
7.4 Raw Material Consumption and Conservation	
a) The organization must maintain records on raw materials supplied to the production in daily basis or batch-wise *Conformity verification* ➢ records on raw materials supplied to the production in daily basis or batch-wise	C
b) The organization must take measures to substitute hazardous inputs to the Product/process with eco-friendly materials *Conformity verification* ➢ Records on raw materials used in the products, Product test reports ➢ Plan for establishing to substitute hazardous inputs to the Product/process with eco-friendly materials	C
c) The amount of raw materials acquired locally should be 3% (In quantity – Tones, Kg,….) or more than that out of the total raw material consumption to produce a unit of product Conformity Verification ➢ Records of total and local raw material content, source/location of material acquired/Purchased	NC
d) The organization must keep an inventory of chemicals used and the suppliers of each chemical product. Conformity Verification ➢ Updated chemicals inventory must be maintained	C
e) The chemical inventory must include the chemical identification data stated below; ➢ Chemical name and type ➢ Supplier/vendor name and type ➢ Presence of Safety Data Sheet (SDS or MSDS) – should include availability and date of issuance ➢ Function ➢ Hazard classification	C

➢ Where the chemical is used ➢ Storage conditions and location ➢ Quantities of chemicals used ➢ CAS number or numbers (when in a mixture) ➢ Lot numbers ➢ MRSL compliance ➢ Purchase date ➢ Chemical Expiration dates (if applicable) Conformity Verification ➢ Updated chemicals inventory must be maintained	
f) The organization must take measures to make the Safety Data Sheets (SDS) available to all the employees who are involved in chemicals handling Conformity Verification ➢ Site inspection ➢ Records of responsibility	C
g) Safety Data Sheets must be posted where hazardous chemicals are stored Conformity Verification ➢ Site inspection ➢ Records of responsibility where hazardous chemicals are stored	C
h) 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) Conformity Verification ➢ Site inspection	C
i) The organization must train all employees who use chemicals on chemical hazards, risk, proper handling, and what to do in case of emergency or spill Conformity Verification ➢ Training records must be maintained	C
j) The organization must maintain a chemical spill and emergency response plan that is practiced periodically Conformity Verification ➢ Complete chemical spill and emergency response plan ➢ Training records of employees for emergency ➢ Maintain spillage kit for handling the emergency	C
k) The organization must provide appropriate and operable protective and safety equipment for all employees/areas where chemicals are stored and used Conformity Verification ➢ Site inspection, Interview employees	C
l) The organization must have chemical hazard signage and safe handling equipment in	C

the areas of the facility where chemicals are used Conformity Verification ➢ Site inspection	
m) The organization must select and purchase chemicals based on their hazards and Manufacturing Restricted Substance (MRSL) / Restricted Substance Lists (RSL) requirements Conformity Verification ➢ Records and test reports	C
n) The organization must mark, designated chemical storage and temporary storage areas in the facility Conformity Verification ➢ Site inspection	C
o) The organization's production chemicals should be traced from the manufacturing process back to the chemical inventory Conformity Verification ➢ *Records on Chemical consumption*	NC
p) The Organization should have an implementation plan to reduce the use of hazardous chemicals beyond chemicals specified by regulations and/or Restricted Substance Lists / Manufacturing Restricted Substance Lists Conformity Verification ➢ *Records on Chemical consumption*	NC
q) Occupational Health and Safety practice guidelines, Emergency Preparedness plan must be developed and implemented as per the following national/international requirement Eg: ISO 45001:2018 Occupational health and safety management systems or equivalent. Standard procedure/ practices for chemical storage as per GHS -Globally Harmonized System of Classification and labelling of chemicals. Conformity Verification ➢ Valid ISO 45001:2018 certificate ➢ Copy of emergency response plan ➢ Documentary evidence for applying standards in chemical storage and handling	C
7.5 Product Quality	
a) Effective Quality management system (QMS) or policies, procedures, and quality plan/programmes should be implemented by the organization Conformity Verification ➢ *Valid ISO 9001 QMS Certificate* ➢ *TQM*	NC

➢ *Records on Quality Policy, procedures, and quality plan/ programmes are maintained*	
7.6 Waste Water Management	
a) The organization must take measures to track its wastewater volume by using acceptable methods (Eg: Metering) (Industrial/Domestic/Combined) Conformity Verification ➢ Records on Wastewater generation, site visit	C
b) The organization should define baseline of wastewater discharged from the facility Conformity Verification ➢ Benchmark must be developed and documented , Records on Wastewater generation and disposal , are maintained	NC
c) The organization should have a mechanism to prevent wastewater from mixing with stormwater in the storm drain systems Conformity Verification ➢ Layout of the wastewater treatment facility/plant and Site visit to the wastewater treatment plant	NC
d) The organization must develop a back-up plan if there is an emergency related to wastewater Conformity Verification ➢ Risk assessment and risk reduction plan and implementation for the wastewater management ➢ A damage preparedness plan should be implemented	C
e) The organization must take appropriate measures to dispose of hazardous (chemical / industrial) and Non-Hazardous sludge properly Conformity Verification ➢ Scheduled waste management license issued by CEA and adopted its requirements. ➢ Records on waste management ➢ Thermal destruction certificate	C
f) The organization should maintain the reports against a wastewater standard mentioned below; ➢ BSR ➢ ZDHC Wastewater Guideline as applicable ➢ Customer/Brand tested and met all parameters specified in the standards Conformity Verification ➢ Test reports	NC

g) The organization should reuse processed wastewater (closed loop) Conformity Verification ➢ Records on wastewater management	NC
h) The organization should recycle processed wastewater (closed loop) Conformity Verification ➢ Records on wastewater management	NC
i) The organization shall comply with the Central Environment Authority (CEA) stipulated regulations before discharging water to the environment Conformity Verification ➢ Availability of onsite wastewater quality testing facility (at least 20% parameters i.e.PH, T , TDS,TSS shall be measured) ➢ Treated wastewater test reports issued by CEA registered/accredited laboratory.	M
7.7 Air Emissions	
a) The organization must take measures to track their air emissions from the production processes *Conformity verification* ➢ Air emission test reports and records	C
b) The organization should maintain a process for implementing modernized equipment to reduce or eliminate air emissions and indoor air quality issues at the facility *Conformity verification* ➢ Site inspections and records relevant to the dust management activities/plan	NC
c) Emissions to air shall not exceed the CEA stipulated limits to make it ensure the factory atmosphere is safe for its occupants *Conformity verification* ➢ Valid Environmental Protection License ➢ Test Reports	M
7.8 Solid Waste Management	
a) The organization must maintain the hazardous waste and non-hazardous waste stream tracking system *Conformity verification* ➢ *Scheduled waste management license issued by CEA and adopted its requirements (if applicable)* ➢ *Hazardous waste and non-hazardous waste inventory is available* ➢ *Waste disposal certificate /Thermal Destruction certificate*	C
b) The organization must maintain a facility to segregate all waste streams into non-hazardous and hazardous waste and store them separately. The organization must have well-marked, designated hazardous waste storage areas and containers *Conformity verification*	C

➢ Site visit for waste stores/yard	
c) The organization must provide training to all employees whose work involves hazardous waste handling (such as maintenance and custodial staff) *Conformity verification* ➢ Records on training	C
d) The organization must set a baseline for solid waste generation compared to the production non-hazardous Conformity verification ➢ Records on Solid wastes and production data	C
e) The Organization must set targets to reduce waste quantity referring to the base year Conformity verification ➢ Records on set targets and records on Solid wastes and production data	C
f) The organization must develop an implementation plan to reduce waste quantity or improve the type of treatment Conformity verification ➢ A documented implementation plan must be available	C
g) The organization should reduce the waste quantity and/or improve the type of treatment compared with the established baseline Conformity verification ➢ Records on Solid waste management and production data	NC
h) The organization should divert a minimum of 75 percent of non-hazardous waste away from landfills, incinerators, and dumping the environment Conformity verification ➢ Records of annual production data and relevant solid waste management data	NC
7.9 Application of Environment Performance Assessment Tools	
a) The organization should use novel Environmental Management Applications/Tools for environmental performance improvement 1. Eco-Design or Design for Sustainability 2. Life Cycle Assessment 3. Environment management accounting 4. Green Chemistry Principles 5. Eco Labels/Green Product Certification 6. Chemical Leasing 7. Zero Discharge of Hazardous Chemicals (ZDHC) 8. Higg Index 9. Environmental Product Declarations *Conformity verification* ➢ Records relevant to the above applications	NC

7.10 Packaging	
a) Recyclable packaging materials should be used for packaging purposes *Conformity verification* Records on types and quantities of packaging materials used are maintained	NC
a) Manufacturers 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	NC
b) Advertisements on the product in communication media should deliver the environmental friendliness of particular product *Conformity verification* ➢ Observations on the product advertisements (leaflets/booklets, company profile, tv/radio advertisement, etc)	NC
8) Phase: Distribution	
a) Efficient transport modes/plans should be used for finished product distribution *Conformity verification* ➢ The transport management plan/Product distribution plan is maintained and implemented	NC
9) Consideration of User phase and the End-of life phase	
a) The organization should take any action to reduce the environmental impacts during the user consumption phase *Conformity verification* ➢ Records of the information/materials communicated to the users	NC
b) Appropriate initiatives/measures should be taken toward reducing the impact of the product's end-of life phase by showing that; ✓ 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 ✓ Ex: Easy dissemble for user phase *Conformity verification* ➢ Description and proof of initiatives taken to reduce impacts from end of life phase of the product	NC

INSTRUCTIONS FOR USERS

This criteria document contains 83 requirements; 04 Mandatory requirements, 42 critical requirements, and 37 non-critical requirements. Marks are allocated for each criterion except Mandatory criteria. At least 70% of the total marks allocation for the criteria shall be scored from the applicant for being successful in the Eco Labelling certification process.

M - 4 , C - 42 & NC - 37

Marks Allocation	
Critical requirements - 5	
Fully Implemented	**5**
Partially implemented	**3**
Not Implemented	**0**
Non-Critical requirements - 3	
Fully Implemented	**3**
Partially implemented	**2**
Not Implemented	**0**

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, a major nonconformity will be raised, and that shall be corrected before the verification.

Critical Requirements

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

Non-critical Requirements

If any violation of non-critical requirements is found during the verification visit, it will be considered as an observation for improvement. The organization could take suitable corrective action within three weeks to grant the certification. This approach is applicable to surveillance verification audits as well.

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

Annex 1: Sustainability Initiatives

Sustainability Initiatives
Has the organization implemented Potential technology upgrades
Utility improvements
Reducing power consumption through pressure setting review of compressors
Demand side controller of compressed air
Proper insulation of bare surfaces, pipes, valves and correcting steam leaks
Elimination of generator cooling tower to save water and energy
Heat recovery from condensate
VFD/Soft-starter for pumps motors and blowers
Installation of energy-efficient lighting (T8 LED tubes)
Installation of energy-efficient lighting (T5 LED tubes)
Installation of skylights
Oxygen tuning for boilers
Auto blowdown controller for boilers
Heat recovery from generator engine jacket
Recovery of generator exhaust heat
Any other Initiatives
Process improvements
Reducing compressed air consumption by installing air nozzles on open pipes
Reducing water consumption by installing trigger nozzles on open pipes
Installing appropriate steam traps
Lab to Bulk RFT performance improvement – RFT improvement from 50% to 80%
Use of waterless direct softener injection in washing for reducing water consumption
Recovery of water from drained liquor
Heat recovery from hot liquor
Re-coating/re-grinding of rubber padding mangles for reducing moisture percentage in stenter drying
Retrofit of PLC based monitoring and controlling system of dyeing and washing machines
Any other Initiatives
Knit dyeing utility related
Improving energy metering system
Improving wastewater treatment and re-use system
Improving insulation of steam pipelines and valves
Recycle the boiler drainage
Condensate the cooling water reuse
Upgrading to energy saving central air conditioner
Yarn dyeing wastewater recovery
Reducing the leakage of the water and steam system
Any other Initiatives

Knit dyeing process related
Implementing low liquor ratio dyeing machine
Change batch washing to continuous rope washing machines
Installing a waste-heat recovery unit on the hear setting machines
Dyeing and finishing utility related
Excess air controller in boilers
VFD (Variable Frequency Drive) on soft flow machine circulation pumps
Energy efficient lighting
Insulate the un-insulated line, flange & valve of Steam Distribution Lines
Power factor improvements
Energy monitoring systems
Any other Initiatives
Knit composite utility related
Condensate recovery
Oxygen monitoring in boilers
VFD on ID fan of boilers
Energy monitoring savings
Lighting replacement
Power factor improvement
Any other Initiatives
Garment utility related
Install VFD at ID fan of 2/3 boilers
Optimizing cut off pressure on air compressors
Optimization of lights after installing needle point LED lights
Reuse of WWTP water for flushing, gardening and floor cleaning
Installation VFDs on washing machines and tumble dyers
Install flash steam recovery system
Use fabric trimming as boiler fuel
Arrest air leakages in compressor air line
Replace 36W tube lights with LED lights to save energy
Optimization of boiler blow down by proper control and stopping boiler drainage
Install new energy efficient fluidized-bed (FBC) boiler for washing section
Install VFD at chilled water pump
Reuse ETP discharge in flushing
Replace conventional tap to push type taps
Replace clutch monitors of sewing machines with servo motors
Any other Initiatives
Textile related
Heat recovery from stenter to generate hot water to use in dyeing process
Optimization of lights after utilization of natural lights in some shades and installing LED lights
Optimization of blow down by using auto blow down controller

Recovery of low-grade heat from hot drains in dyeing
Insulation of jet dyeing machines with coating paints
Optimize cut off pressure on air compressors
Installation of energy efficient Co-generation system to get power and steam
Modification of Condensate and flash steam recovery system including tank & pipe insulation
Heat recovery from air compressors to generate hot water for use in dyeing process
Use of condensate as hot process water to save steam
Insulation of condensate lines, hot water valves
Optimizing the combustion of steam boilers
Reduce compressed air leakages
Installation of caustic recovery plant
Any other Initiatives
Textile process related
Replacing of existing high MLR jet dyeing machines with low MLR (1:4) machines
Reuse of WWTP water for screen/blanket washing and use auto cleaning system in screen printing
Replace normal taps to push type to save water
Insulation of jet dyeing machines
Reducing water consumption by counter current washing in 2 printing washers
Optimize mangle pressure and use 2 dip 2nip process to save energy and productivity enhancement
Any other Initiatives
Use of recycling technologies in the production