# NO IRRIGATION CULTIVATED ETHICALLY COTTON (NICE COTTON)





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**ANNEX 1:** 





### PRINCIPLE 1. INTERNAL CONTROL SYSTEM & CONTINOUS IMPROVEMENT

Internal control system & Continuous improvement practices are linked with business integrity, People often define integrity as doing the right thing even when no one else is around. It is the ability to act with honesty and be consistent in whatever it is you are doing based on the moral value and all possible legislature (national and local legal compliance).

#### 1.1: Internal Control System (ICS) shall be developed. Compliance: Mandatory

#### Guidance:

- The processes established by the management shall be sufficient to develop an effective internal control system (ICS) that ensures that all members including farmers meeting all applicable regulations with respect to NICE COTTON.
- ICS shall define standard operating procedures for contracting farmers, training, internal audits, sanction procedures grievance procedures, roles and responsibilities, communication of policies, emergency response, etc.

# 1.2: ICS shall appoint adequate employees and resources to implement NICE COTTON requirements.

**Compliance: Mandatory** 

#### Guidance:

- ICS shall define and document clear roles and responsibilities of the employees appointed.
- Overall responsibility and authority for the ICS manager's compliance with all applicable requirements of this standard.
- ICS manager shall demonstrate the knowledge and compliance with NICE COTTON requirements.
- ICS shall ensure that appointed employees are adequate and trained.

# 1.3: ICS shall conduct risk assessment at least once in a year accordance to NICE COTTON requirements.

#### Compliance: Mandatory

- Risk assessment shall be conducted to identify, monitor, and mitigate risks.
- Risk assessment of each farm will be used by the ICS manager to calculate the frequency of internal audits required for each farm, giving the ICS manager assurance that all farms are still in compliance with all applicable NICE COTTON requirements.



• The ICS manager shall have the authority to remove a group member if the farm is not in compliance with the requirements of NICE COTTON or issue corrective actions in case of non-compliance.

# 1.4: Internal audit procedure shall be established to ensure compliance with NICE COTTON requirements.

Compliance: Mandatory

#### Guidance:

- ICS shall define internal audit procedure and appoint adequate internal auditors to perform internal audits.
- Internal audit shall be conducted at least once in a year by qualified and trained internal auditors.
- ICS shall maintain the Internal audit report, audit findings and corrective action reports.

# 1.5: ICS should keep the up-to date overview map that demonstrates locations of the participating farms.

Compliance: Must

#### Guidance:

- ICS must draw its own map or can use satellite map. The map(s) should at least contain the following information:
  - Location of ICS
  - Location of farm and production area.
  - Water bodies
  - Storage area
  - HCV areas
  - Native forest
  - Riparian Vegetation
  - Natural wetland
  - Steep slopes

# 1.6: No Irrigation Cultivated Ethically Cotton (NICE COTTON) and ICS requirements shall be followed by participating farmers.

#### Compliance: Mandatory

Guidance:

• Farmers shall be committed to following No Irrigation Cultivated Ethically Cotton (NICE COTTON) and ICS requirements in their cotton farms.



- ICS shall provide periodical training to the farmers on the requirements of NICE COTTON.
  - Training record shall include:
    - Date of the training,
    - Trainer name,
    - Training description,
    - Trainee delicate with signature.

### 1.7: ICS shall keep the up-to-date record with respect to NICE COTTON standard and record shall be kept for at least 5 years. Compliance: Mandatory

- ICS shall retain the document of procedure at head office at least for 5 years but if local legal requirement is of more than 5 years then the records shall be maintained for longer period as per the legal requirement.
- Records shall include:
  - Membership applications for Farmers
  - Contract with farmers
  - A list or database of farmers/sites, including for each member:
    - Name and contact details.
    - Total size of farm
    - Area to be certified,
    - Area under cotton cultivation
    - Total production
    - A farm maps
    - Geographical coordinates of farm(s) / sites.
    - The level of risk assigned by the internal inspector
  - Results from the internal audits reports along with corrective action reports.
  - Records of total volumes of cotton produced by the farm and sold as NICE COTTON certified, updated every year.



### PRINCIPLE:2. LEGAL COMPLIANCE

2.1: Awareness of and compliance with all local and national laws and regulations. Compliance: Mandatory

#### Guidance:

- ICS members and farmers should demonstrate awareness and compliance on the applicable legal requirements.
- For small farms, ICS should identify applicable local and national laws and provide training to group members on applicable laws and legal compliance.

#### 2.2: ICS, subcontractors and group member should keep copies of up-to-date national and local legislation on site or demonstrate access to these. Compliance: Must

#### Guidance:

• The verifying organization must update the legal requirements documents, it will be adequate with future amendments and documentation of newer regulation coming into action.

#### 2.3: The farmer should demonstrate the right to use land and water. Compliance: Mandatory

#### Guidance:

- Farmers shall maintain documented evidence of the right to use land. Evidence of ownership and/or use rights to the land includes land title, legal evidence of ownership or notarized lease agreement of the land.
- Farmers shall demonstrate the right to use water either from surface or underground. Wherever necessary, a license shall be obtained to demonstrate the right to use. (Applicable if the water is applied manually)
- In the absence of the ability to demonstrate legal right, farmers shall confirm that there is no dispute on water rights. (Applicable if the water is applied manually)

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### **PRINCIPLE 3. SOCIAL PRACTICES**

Agriculture has significant influences on social responsibilities. Farmers, farmworkers, families of farmers and workers and communities are part of the society. This principal intent to eliminate unethical social practices, to promote social wellbeing in society and extend reasonable benefits to farmers and farm workers and to comply with local and national requirements.

### 3.1: Minimum wages and working hours shall be followed as per local and national regulations.

Compliance: Mandatory

#### Guidance:

- Farmers shall pay at least minimum wages as per local regulations.
- Legal requirements for working hours shall be followed.
- Normal working hour shall not exceed more than 48hours per week.
- Overtime is voluntary and paid as per local regulation.
- Overtime shall not exceed more than 12hours per week.

# 3.2: Child labour, forced and bonded labours shall not be employed at any stage of production on the farm.

Compliance: Mandatory

- Farmers shall not engage child labors on the farm. Minor shall not conduct any hazardous work.
- Family child/children may accompany their parents to the farm however they shall not be engaged any hazardous or productive work on farm.
- Farmers shall not engage forced, bonded or involuntary labors. salary, personal identification documents shall not be retained.
- Farmers shall not discriminate based on religion, caste, creed, color, gender and political beliefs.
- Farmers shall pay equal wages and benefits for work of equal value.



3.3: Discrimination and harassment shall not be supported or encouraged. Compliance: Mandatory

#### Guidance:

- Farmers shall not discriminate workers based on religion, caste, creed, color, gender and political beliefs.
- Farmers shall pay equal wages and benefits for work of equal value.
- Workers shall not be subjected to punishment, verbal or physical abuse or any harassment.

#### 3.4: Farmer shall ensure healthy and safe workplace for the workers working on the farm. Compliance: Mandatory

#### Guidance:

- Farmers shall provide potable water at free of cost. Hygiene stations, washing facilities and toilets shall be provided wherever necessary.
- Farmers shall provide personal protective equipment (PPE) to farm workers as per need and situation. PPE shall be given free of cost.
- First aid kits shall be maintained on the farm.
- ICS or farmers shall train farm workers on health and safety requirements.

#### 3.5: Workers shall have freedom to form or join unions of their choices. Compliance: Mandatory

#### Guidance:

- Farmers shall allow workers to join or form any union and it should not affect their employment.
- No disciplinary action shall be taken against any worker for such activity.

#### 3.6: Complaint mechanism shall be defined, communicated, and implemented. Compliance: Mandatory

#### Guidance:

- ICS shall develop a complaint and grievance mechanism.
- ICS shall train farmers, workers, or any other interested stakeholders under complaint mechanism.

Complaint shall be recorded and resolved timely.



### 3.7: ICS must provide social training to farmers and workers.

Compliance: Must

#### Guidance:

- ICS must develop a training module for farmers and workers. Training must include
  - Local and National legal requirements related to principles defined in this standard.
  - Social requirements.
  - Health and Safety.
- ICS must record training delivered to farmers and workers.

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### **PRINCIPLE 4. SOIL CONSERVATION AND MANAGEMENT**

Soil is a basic essential resource for successful agriculture and is the source of the nutrients that we use to grow crops. Looking at the growing demands of agriculture produce it is essential to monitor and maintain soil health and quality. Good soil management practices enhance the ability of soil to store carbon and provide benefits such as more productivity, promote biodiversity, less susceptible to erosion and nutrient loss. Erosion results in the loss of plant nutrients and organic matter, siltation of reservoirs and riverbeds thereby adversely affecting water availability for irrigation and drinking. Therefore, soil management and conservation practices need to be followed.

#### 4.1: Soil management and conservation plan must be developed and implemented onfarm.

Compliance: Must

#### Guidance:

- ICS must develop locally adoptable and suitable soil management and conservation plan and implement on farms.
- Soil management and conservation plan must include crop rotation, conservative tillage, cover crops, inter-cropping, soil erosion & compaction, soil moisture and water level in soil.
- Farmers must follow a soil management and conservation plan to maintain and improve soils health, soil fertility and productivity.

#### 4.2: ICS must provide training on Soil management and conservation. Compliance: Must

- ICS must provide training to the farmers on soil management and conservation plan.
- Training should provide in local language.
- Training record to be kept include:
  - Date of the Training,
  - Trainer Name,
  - Training description,
  - Trainee delicate with signature.





# 4.3: Soil quality must maintain or improved by following by good soil management and conservation practices.

#### Compliance: Must

#### Guidance:

- Farmers must follow the moisture management and follow the practices to retain soil moisture in a field like minimal tillage, mulching, cover crop, crop rotation, inter crop.
- After sowing of the rainfed crops, intercultural operations like light hoeing are very essential in cotton-based cropping systems, to break the upper crust of the soil and improve aeration in the soil to improve available water in the soil for proper plant growth.
- Soil analysis must be carried out once in 3 years. A soil analysis may include concentrations of available macro-nutrients, pH, soil organic carbon, salinity, micro-nutrients, and heavy metals etc.
- ICS must facilitate soil analysis for participating farmers.
- Farmers must ensure to adopt practices to improve soil organic matter content.
- The risk of soil erosion and compaction must be assessed and managed. Corrective action is taken where soils have been damaged by erosion, compaction, chemical degradation, contamination, or loss of organic matter.

### 4.4: Farmer must ensure that soil cover is maintained and improved.

Compliance: Must

- Farmers must maintain vegetation or crop residue to conserve soil moisture, reduce water evaporation and to avoid a runoff.
- Overgrazing leads to soil erosion and land degradation hence farmers should avoid overgrazing.
- Native vegetation must maintain.
- Farmers may also use synthetic mulching to conserve soil moisture and avoid water evaporation.





### **PRINCIPLE 5. WATER CONSERVATION AND MANAGEMENT**

Water is a key input, which assists in developing crop germination and productivity. Plants need water continuously during their life cycle to absorb nutrients from the soil. Aim of "No Irrigation Cultivated Ethically Cotton (NICE COTTON)" standard is to produce cotton on rainwater and without using external power usage for application of water. Water conservation and management practices help farmers in rainfed areas to improve crop yields and to reduce production risks and droughts. It is important to provide a sustainable water source for supplementing rainfed agriculture production.

#### 5.1: ICS shall ensure that rainfed production system is implemented on the farm. Compliance: Mandatory

#### Guidance:

- ICS and Farmers shall ensure that,
  - Measures are in place to reinforce water-use efficiency including:
    - Timely and appropriate crop establishment according to the native climate.
    - Use of suitable for native climate and high-water use efficiency cultivars.
    - Use of natural mulching with crop residues.
    - Use of improved cropping systems and agronomical practices, such as conservation tillage.

#### 5.2: Water metrics system shall be implemented. Compliance: Mandatory

#### Guidance:

- ICS shall ensure that sowing and harvest dates are recorded and reported in the metrics.
- Rainfall data shall be recorded and maintained.
- Total Rainfall data shall be segregate as per stages of crop(days).
- Irrigation numbers, quantity and method of irrigation are feed in calculator (Only for manual irrigation)

#### 5.3: Water conservation and management practices must be implemented on the farm. Compliance: Must

- ICS must develop locally adaptable water conservation and management plan for farmers.
- Farmers must adopt On-farm water conservation practices such as rainwater harvesting, micro catchments, mulching, and farm ponds for water harvesting and storage.



- Excess runoff water must be, harvested and stored in the water harvesting ponds for use in the cotton cultivation as per need.
- Water conservation and management practices must record in water metrics.

# 5.4: Training to farmers and workers shall provided on water management and Conservation.

Compliance: Mandatory

#### Guidance:

- ICS shall provide training to the farmers on water management and conservation plan.
- Training shall provide in local language.
- Training record shall be included:
  - Date of the Training,
  - Trainer Name,
  - Training description,
  - Trainee delicate with signature.

# 5.5: External water supply shall only be given in conditions like, drought or water stress which can create a potential economic loss.

#### Compliance: Mandatory

#### Guidance:

- Farmers shall ensure that external water is given only during drought or water stress conditions to avoid economical loss.
- Good irrigation management practices shall be followed to ensure sustainable use of water.
- Farmers shall maintain records which shall include time, date, land area, the quantity of water used and water supply methods.
- ICS shall maintain records of rainfall to substantiate claims of drought or less rainfall.
- Water in the agriculture production system shall be used efficiently. Farmers shall ensure that water infrastructure is in good working condition by inspecting nozzles and pumps regularly if any leaks/ malfunction found to repair it.

#### 5.6: Efficient Drainage management plan must develop and implemented. Compliance: Must

- ICS must develop locally adaptable drainage management plan. E.g.: village ponds restoration/recharge, well recharging, groundwater recharging.
- Farmers must ensure that drain channel design shall be planned to capture excess runoff into water harvesting structures so that water must be used in future and to increase the water table.



- Farmers must ensure that drain design shall be used to maximize water retention in the field and minimize runoff.
- Drains must discharge into riparian areas rather than directly into surface waters
- Drainage management practices must be recorded in water metrics to ensure water conservation.

#### 5.7: Disposal of hazardous material or waste in and around water shall be prohibited. Compliance: Mandatory

- Farmers shall not dispose of hazardous material like agrochemical, nutrient packaging or empty containers, animal manure, oils, lubricants medical and veterinary waste in the water stream, river or other surface or groundwater.
- River, ponds lakes or any water body shall not be used as waste dumps/ waste disposal areas.
- Water bodies shall be protected from pollution by sewage and agricultural waste.
- Farmers shall ensure that applied nutrient does not leach out directly into the water body. Leaching of nutrient and agrochemicals and its over applications shall be minimized.



#### PRINCIPLE 6. PLANTING MATERIAL AND SEED

Crop status, growth and productivity largely depend on the quality of planting materials/ seed materials used for sowing. Varieties that are locally suitable and resistant to drought, pest and disease help farmers to reduce reliance on external resources such as agrochemicals and irrigation.

### 6.1: Seed or planting material compliance with, all state and national and regulations shall used.

**Compliance: Mandatory** 

#### Guidance:

- Selected seeds variety and planting material should comply with, all local, state and national laws and regulations.
- Farmers shall source seeds from authorized/approved vendors.
- Purchase receipt/invoice of seed shall be maintained.

6.2: Locally appropriate, commercially acceptable, and healthy varieties must select. Compliance: Must

#### Guidance:

- Farmers must select varieties that are geographically suitable and commercially acceptable, drought, disease, and pest-resistant varieties.
- Seeds must not be treated with any harmful chemicals.
- Use of microbes as seed treatments such as rhizobium is allowed and is considered to be a best practice.
- Farmers must use pure quality and healthy seeds.

#### 6.3: Genetically modified cotton seed. Compliance: Mandatory

#### Guidance:

- Genetically modified cotton seed (GMO seeds) shall allow based on the legislation applicable in the country of production.
- Purchase receipt/invoice of seed shall be maintained.

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### PRINCIPLE 7. INTEGRATED CROP MANAGEMENT SYSTEM

(INTERGRATED MANAGEMENT- This principle includes organic and synthetic fertilizers products and crop protection products).

ICM is a method of farming that balances the requirements of running a profitable business with responsibility and sensitivity to the environment. it includes practices that avoid waste, enhance energy efficiency, and minimise pollution. For many farmers or grower adoption of ICM involves some changes to existing practice. However, for the producer it must ensure a continuing living, and for the consumer a continued supply of affordable, quality produce. ICM includes integrated Nutrient management and integrated Pest management.

Fertilizers from both natural and chemical formulated sources are essential to provide required macro and micro-nutrients to increase soil fertility, plant growth and productivity. Crop protection products help to control insects, diseases, weeds, fungi and other undesirable pests on the crop. Although fertilizers and crop protection products are beneficial in farming, it also has negative impacts on human health, soil health and environment if not applied judiciously. Farmers should use fertilizers and crop protection protection products responsibly to minimize their impacts.

#### 7.1: Local and national legal laws and regulations shall be complied. Compliance: Mandatory

#### Guidance:

- Farmers shall demonstrate compliance with local and national legal laws and regulations related to fertilizers and crop protection product (CPP) its application.
- Farmers shall follow health and safety requirements while application of fertilizers and CPP.
- Transportation and storage of agrochemicals shall be safe and all applicable health, environmental and safety precautions are implemented.
- If there are no regulatory requirements, then guidance on the best available options available shall be in place.

7.2: ICS must develop an Integrated Crop Management Plan (ICM) and implemented on the farm.

#### Compliance: Must

- ICS must develop locally adaptable integrated nutrient management plan. The nutrient requirement of the crop and soil conditions should be considered while developing the integrated nutrient management plan and implementation on farm.
- The nutritional requirements of the crop to reach the desired yield and quality must be known and translated into locally specific operational targets for crop nutrition.



- ICS must develop locally adaptable Integrated pest management plan which is based on IPM principles (Prevention, Observation, Monitoring, and Intervention.)
- Key pests must be identified, their life cycle understood, and action thresholds established.
- Farmers must adopt On-farm IPM practices such as to reduce agrochemical use, implement ecologically sound, biological controls for target pests or diseases where possible.
- This includes biodiversity-based Integrated Pest Management as part of your crop protection activities

#### 7.3: ICS must provide training on integrated crop management requirements. Compliance: Must

- ICS must provide periodical training to the farmers on integrated nutrient management plan and integrated pest management plan.
- Trainer must be competent and should have knowledge of Crop Nutrient and Pest management.
- Agrochemicals choice, Source, application rate, application method, storage, making calculations based around soil and crop characteristics and managing the risk and use of PPE to minimise risks to themselves and the environment Should all be covered in training.
- Training should provide in local language.
- Training record to be kept include:
  - Date of the Training,
  - Trainer Name,
  - Training description,
  - Trainee delicate with signature.



# 7.4: Choice of agrochemicals, type, quantity, and application method according to crop needs and applied as per professional recommendations to reduce risk of contamination. Compliance: Must

#### Guidance:

- Farmer must ensure that organic and inorganic agrochemicals are of high quality and from trustworthy sources.
- Farmers must apply fertilizers as per recommendation given in the soil analysis report.
- Farmers must follow label recommendations of agrochemicals.
- Using technologies such as deflector plates, incorporation/injection of slurry or ureabased fertilisers, spot or hand application, high-risk procedures should be eliminated or improved.
- Do not over apply agrochemicals, to avoid pollution of the environment (regarding soil and water).
- Provide only recommended quantity of agrochemicals.
- Prohibiting re-using agrochemicals containers for any purpose other than recycling (i.e. where a proprietary container is refilled professionally by the vendor)
- Prohibiting applying banned agrochemicals, banned agrochemicals include products forbidden by local legislation as well as those covered by global bans.

# 7.5: Farmer or worker shall use of personal protective equipment (PPE) while handling hazardous materials.

#### Compliance: Mandatory

#### Guidance:

- Appropriate personal protective equipment (PPE) supplied to and used by farmer or worker while mixing, handling and application of nutrients and CPP.
- ICS shall be provided with appropriate PPE, free of charge.
- A complete suite of protective clothing should consist of the following:
  - Protective outer garment / overalls / hood / hat.
    - Rubber gloves made of materials impermeable to liquids.
    - Dust-proof goggles.
    - Boots.
  - Respiratory devices

#### 7.6: Farmer must consider weather conditions during application are recorded. Compliance: Must

#### Guidance:

- Farmers must consider weather conditions during application of agrochemicals and irrigation.
- Applications must be avoided during periods of heavy rain, snow, or frozen ground, cracked, waterlogged, or compacted soils, high temperature and wind speed.
- ICS or farmer must monitor weather conditions and recorded.



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#### 7.7: Farmer shall store agrochemical and hazardous material securely. Compliance: Mandatory

#### **Guidance**:

- Farmers shall store agrochemicals and hazardous material safely and security to minimize risks to humans and the environment.
- Storage areas shall be adequately labelled so that the contents can be identified, and action taken in the event of an emergency.
- Farmers shall follow label instructions on storage.
- Access to storage is restricted to authorized personnel.
- Agrochemicals and hazardous product shall be handled and transport safely.
- Agrochemicals and hazardous product shall be stored in safe place outside the living area.
- Fuel shall not store with fertilizer and pesticide to avoid risks and environmental contamination.
- Storage area shall be accessible to authorized persons only.

# 7.8: Farmer must ensure that application equipment is serviced and calibrated periodically.

#### Compliance: Must

#### Guidance:

- It is important to keep application equipment in good working order and ensure that it is safe to use. After each use, it gets cleaned.
- Farmers must ensure that application equipment is serviced regularly and calibrated.
- Records of serviced and calibration must be maintained.

#### 7.9: Farmer must record the agrochemicals application. Compliance: Must

#### Guidance:

- Farmers should maintain a record of fertilizers and CPP in the farm dairy or record book.
- The record should include name of product, justification of application, date of application, quantity of application, area applied, formulated product name, active ingredient name, active ingredient concentration in formulated product, total amount of formulated product used, and type of sprayer used, Method of application, and name of the applicator.

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### PRINCIPLE 8. WASTE MANAGEMENT PRACTICES.

Agrarian waste is squander produced as a result of different rural operations. It incorporates fertilizer and other squander from ranches, and poultry houses, harvest waste; fertilizer runoff from fields; pesticides that enter into the water, air, or soils; and salt and residue depleted from fields. Agricultural waste is from confined animal operations and from surface runoff that may be contaminated by chemicals in fertilizer, pesticides, animal slurry, crop residues or irrigation water.

#### 8.1: Local and national legal laws and regulations shall comply. Compliance: Mandatory

#### Guidance:

- Farmers shall demonstrate compliance with local and national legal laws and regulations related to hazardous and agricultural waste disposal.
- Farmers shall follow Health and safety requirements while disposing agricultural waste.
- If there are no regulatory requirements, then guidance on the best available options available shall be in place.

#### 8.2: Farmer must implement waste management plan on the farm. Compliance: Must

#### Guidance:

- Develop, document, and monitor various waste products in accordance with the waste management plan.
- Waste management plan include Identify, store, segregate, and dispose of agricultural, non-hazardous, and hazardous wastes.
- Identity of various sources and types of waste materials, as well as their possibility for direct use or re-cycling into various usable products.
- Standard Operating Procedures have been established for the handling of used chemicals and Their disposal should as per the national legislations and regulations.
- Farmers should implement waste management plan on farms.

#### 8.3: Training to farmers and workers must provide on waste management Plan. Compliance: Must

- ICS must provide periodical training to the farmers on waste management Plan.
- Waste minimisation, waste segregation, waste storage, and waste disposal must all be covered in training.
- Training must provide in local language.



- Training record must include:
  - Date of the Training,
  - Trainer Name,
  - Training description,
  - Trainee delicate with signature.

8.4: On farm hazardous waste shall handle, storage and disposal safely. Compliance: Mandatory

#### Guidance:

- Hazardous and non-hazardous waste identify on farm and shall be handle, store and dispose of hazardous wastes properly.
- Adequate spill-prevention facilities in place.
- Waste and residual agrochemicals are properly stored, triple-rinsed, with the rinsed added to the spray tank, or disposed of safely.
- If waste buried on-farm (including domestic waste) shall be covered with a layer of soil. the depth of the soil layer needed will depend on local conditions and regulations, but would normally be at least 50cm
- Measures shall be in place that agrochemicals and any plastic waste and other litter shall not be left in fields and using streams and rivers as a waste dump is prohibited.
- There may be no on-site waste burning.
- Agrochemical containers shall never be used to store food, water, or feed.

#### 8.5: Farmer must maintain the record of waste Management. Compliance: Must

- Farmers must maintain a record of following
  - Estimations of major waste streams and routes of disposal.
  - Evidence of on-farm methods of waste disposal being fit for purpose.
  - List of landfills or on farm waste disposal area.
  - Training record.



### **PRINCIPLE 9. ENVIRONMENTAL PRACTICES**

Some of the environmental issues that are related to agriculture are climate change, deforestation, dead zones, water scarcity due to excess flooding of the field by water, pollutions, soil degradation, loss of habitats and waste disposal. Intensive agricultural activities adversely affect biodiversity on and around the farm. Agricultural production is generally accompanied by wastes from the application of intensive farming methods and chemicals used in cultivation, remarkably affecting environments.

# 9.1: Biodiversity action plan shall prepare, and on-farm biodiversity is protected and improved.

Compliance: Mandatory

#### Guidance:

- ICS shall prepare a locally suitable and adoptable Biodiversity action plan.
- Farmers shall implement a biodiversity action plan on their farms and prevent the destruction of important biodiversity habitat in and around the farm.
- Farmers shall demonstrate awareness on, identified biodiversity issues in and around farms.
- Farmers shall follow good agricultural practices that support biodiversity and ecosystem.
- ICS shall provide training to farmers and workers on Biodiversity management.

# 9.2: Poaching, collecting, and hunting of rare, threatened, or endangered species shall prohibit.

#### Compliance: Mandatory

#### Guidance:

- Farmers shall prohibit poaching, collecting, and hunting of rare, threatened and endangered species.
- Farmers shall not destroy important habitats, on-farm, and off-farm, because of farming activities.

# 9.3: Land expansion shall not carry out in the protected and high conservation value areas.

#### Compliance: Mandatory

- Farmers shall ensure that expansion of land is responsible, and no expansion is carried out in the native forest, riparian zones, natural wetlands, and grasslands.
- ICS shall identify and document protected and high conservation value areas in the biodiversity action plan.



#### 9.4: Agricultural waste must manage responsibly, and pollution is minimized. Compliance: Must

#### Guidance:

- Farmers must ensure that all on-farm waste disposal is carried out responsibly and away from living area and water resources and does not contaminate any natural sources in and off-farm.
- Farmers must not use any agrochemical containers to store food, feed, and water.
- Hazardous agricultural waste is stored securely and dispose of responsibly.
- Farmers must not dispose of hazardous waste in protected areas, high conservation value areas, living areas and in the water resources.
- Farmers must not burn crop residues as a method of disposal. Crop residues should be used as natural mulching and farmyard manure, or it should be used in the household to generate energy.
- Farmers must prevent spillage of agrochemicals and other hazardous waste.

#### 9.5: ICS must provide training to farmers and workers on biodiversity action plan. Compliance: Must

#### Guidance:

- ICS must provide periodical training to the farmers on biodiversity action plan.
- Trainer should be competent and should have knowledge of biodiversity and environmental management practices.
- Land Expansion, Hunting, and Agricultural waste disposal should all be covered in training.
- Training must provide in local language.
- Training record to be kept include:
  - Date of the Training,
    - Trainer Name,
    - Training description,
    - Trainee delicate with signature.

# 9.6: ICS must ensure that farmers adopt farming practises that minimize greenhouse gas (GHG) emissions.

#### Compliance: Must

- Farmers must follow agricultural practices that minimize GHG emissions such as conservative or reduced tillage, use of crop residue for mulching or farmyard manual, judicious use of agrochemicals, implementation of IPM & INM, no expansion in protected or high-value conservation areas etc.
- Farmers must encourage the use of organic fertilizers and pesticides.
- Farmers must maintain and enhance native vegetation.
- Farmers must maintain agriculture equipment and machinery in good conditions to ensure optimum efficiency.



### PRINCIPLE 10. ENERGY MANAGEMENT:

Across the nation farmers are considering ways to save money through energy efficiency and renewable energy practices. Higher energy-related input costs will generally raise the overall production cost of agricultural products, therefore reducing farm income. By better understanding farm energy consumption and implementing best practices to manage energy on the farm

10.1: Energy management plan shall be in place. Compliance: Mandatory

#### Guidance:

- An energy management plan shall be in place, designed to reduce energy consumption and improve energy efficiency.
- ICS adopt strategies that reduce their consumption on non-renewable energy sources and increase their usage of renewable energy sources such as solar and wind, as well as local, recyclable materials.

#### 10.2: Farmer must ensure that energy management practices implemented on farm. Compliance: Must

#### Guidance:

- Farmers must check diesel, petrol and electricity usage for sprayer, tractor, irrigation equipment.
- To increase energy efficiency, look for ways to enhance machinery schedules, set points, and flow rates.
- Machinery calibration (sprayer, tractor, irrigation equipment's) must reported once in a year.

10.3: ICS must provide training to farmers and workers on energy management. Compliance: Must

#### Guidance:

- ICS must provide periodical training to the farmers on energy management.
- Training must provide in local language.
- Training record to be kept include:
  - Date of the Training,
  - Trainer Name,
  - Training description,
  - Trainee attendance with signature.

No Irrigation Cultivated Ethically Cotton (NICE COTTON) V.4.1

NICE

#### **ANNEX 1:**

WHO classes 1a, 1b and II https://www.who.int/ipcs/assessment/public\_health/pesticides/en/

Rotterdam Convention

http://www.pic.int/TheConvention/Chemicals/AnnexIIIChemicals/tabid/1132/language/en-US/Default.aspx

#### Stockholm Convention

http://chm.pops.int/Convention/ThePOPs/The12InitialPOPs/tabid/296/Default.aspx http://chm.pops.int/Convention/ThePOPs/TheNewPOPs/tabid/2511/Default.aspx http://chm.pops.int/Convention/ThePOPs/ListingofPOPs/tabid/2509/Default.aspx



