



# Terms of References

RFP to conduct Climate Change study for Sugar for Fairtrade Indian Producers

Fairtrade NAPP is soliciting interest for conducting one study on Impact of Climate Change and its mitigation & adaptation measures for its Sugar. The study will comprise of four parts and phase 1

1. Measuring GHG emission through current agricultural practices (at least from sowing to farm gate or beyond) and measures to quantitatively reduce it which can be verifiable
2. Calculate the equivalent of carbon sequestration for FT organic sugarcane and FT Conventional sugarcane (For Organic sugarcane SPOs- **Small-scale producer organisation**) with a view to explore possibility of trading carbon credits.
3. Show biggest emission sources and sinks and give recommendations for sequestering more carbon equivalents
4. Understanding the existing Climate Change Challenges specific to geographic locations and suggesting effective adaptive mechanisms

## **Phase 2: Participatory Action Research**

An extension to the current scope of work

Demonstrate the validation of recommendations and quantify the reductions in the GHG emission by implementing the recommendations given in phase 1 on a demo plot.

## **About Fairtrade NAPP**

Fairtrade NAPP supports and empowers Fairtrade certified farmers and workers across the Asia Pacific region. The producers share a 50% ownership of the Fairtrade system and have an equal voice in all decisions that affect them. Currently NAPP has 300+ Producer Organizations across 21 countries in Asia and Pacific Region supporting more than 260000 farmers and workers. Fairtrade strengthens the position of farmers and workers in the value chain. By offering an alternative approach to trade, NAPP supports producers in securing better markets, contributing to greater sustainable development in Asia Pacific region under Fairtrade – Network of Asia and Pacific Producers (NAPP).

To know more about NAPP & Fairtrade visit: <https://www.fairtradenapp.org>,  
<https://www.fairtrade.net>

## **Phase 1**

### **About the Study**

Fairtrade is a strategy that aims to promote sustainable development and to reduce poverty through fairer trade. It targets vulnerable and disadvantaged producers, many of whom are severely affected by climate change. Droughts, floods, temperature variability, soil health depletion and crop diseases are some of the consequences of rising global temperatures. Climate change is a multi-dimensional phenomenon that disrupts not only the environment but also economic, social, and even cultural dimensions of the lives of producers and their communities.

Fairtrade aims to develop a climate change strategy to help producers adapt to climate change. The strategy intends to focus on reduction of carbon emissions while recognizing devastating impacts of climate change and the necessity to develop more sustainable way of production. The intended impact of the climate change strategy is to secure the livelihoods of the affected producers by enhancing their resilience to climate change (climate change adaptation), by developing sustainable agricultural operations aimed at reducing their carbon footprint (climate change mitigation).

The study comes with the following similar objectives:

- To understand the deleterious effects of climate change on the region in general
- To comprehend effect of the above in crops against parameters like yield, quality, cost of production etc. and to suggest crop-specific adaptive mechanisms.
- To document the current agricultural practices and calculate GHG emissions contributed by it.
- To recommend at the completion of the study a set of implementable packages of practices that would reduce GHG emissions. (Must be able to quantify reductions).
- These recommendations must stand scrutiny of a third party audit in the event of possibility of carbon credit transactions.
- Explore possibility of revenue generation through sale of carbon credits according to Sustainable Development Mechanism (SDM).

In the event of such a possibility establish a mechanism for SPO's to sell carbon credits.

### **Phase 2: Participatory Action Research**

An extension to the current scope of work

Demonstrate the validation of recommendations given in phase 1 by implementing the recommendations in a demo plot in one study area.

Region for the study

1. Maharashtra (6 sugarcane producers)
2. Tamilnadu (1 sugarcane producer)
3. Uttarpradesh (1 sugarcane producer)

Sample size- Purposive Proportionate Sampling to demonstrate the geographical distribution of all the producers in India.

### **Study Description**

#### **Content of the Study**

The study's inferences should be based on primary data supported by secondary data where required and should include:

Brief on methodology, data analysis tools used, research ethics and protocol followed. Feedback on the indicators used in the research.

A report with a good balance of narrative explanation and data representation, through clear graphs, tables and any other statistical comparison.

The report will follow a structure agreed between the research team and NAPP.

The report should provide detailed case studies and an overall synthesis of findings and observations / learning on key themes outlined in the given TOR

Executive summary, giving a clear overview of the principal findings.

Power-point presentation summarizing the main findings and key recommendations.

Photographs and/or video footage (Optional) from the research

All raw data collected through the research process. The format for submission of data will be agreed between the research team and NAPP MEL.

Additional Requirements:

A detailed manual of setting up of Demo Plot and its activities along with the highlights of the outcome in a Power-point presentation Form. The implementation can be done by the farmers/small producer organizations or monitored by NAPP or the research team. Processing unit (Sugar mills) assessment with all stages to be considered.

Note: The Research Team agrees to present the final results of the study to key stakeholders within NAPP.

Kindly send in your proposals by the 15<sup>th</sup> of December 2021. The proposal should contain the two parts, the Technical and the financial proposals. The technical proposal should focus on the how the study would be carried out and what all topics/parameters it will cover. The financial should focus on the cost, terms of payments etc. The approval budget currently is 15000 Euros for phase 1 and phase 2 together. Kindly send in your completed proposals to [research@fairtradenapp.org](mailto:research@fairtradenapp.org) by **the 15th of December 2021**.