

India's Principal Scientific Advisor reviews evidence-based advice on climate-smart, sustainable practices

Project Title: P1390 - Coordination of CoA 4.3

Description: Recent policy report with recommendation submitted to the Principal Scientific Adviser of India: "Agricultural Policies and Action-Plans for a Secure and Sustainable Agriculture."

Is new?: Yes

Stage of Maturity of the Process: Stage 1

Policy/Investment Type: Policy or Strategy

Amount: <Not Applicable>

Geographic Scope: Regional

Region:

- Southern Asia

Outcome Impact Case Report:

- 3930 - WHEAT and MAIZE science, partnerships, outreach led to policies for conservation agriculture and nutrient management in South Asia, mitigating climate change and increasing smallholder income (<https://tinyurl.com/22ddvqds>)
- 3286 - WHEAT research identified factors and business models that positively impacted farmers' adoption of sustainable intensification and climate smart farming practices in the Indo-Gangetic Plain. (<https://tinyurl.com/2yzwzbjr>)

Innovations:

- I2529 - Climate-smart agriculture practices influence weed density and diversity in cereal-based agri-food systems of western Indo-Gangetic plains (<https://tinyurl.com/2ohujnef>)
- I1169 - Re-designing irrigated intensive cereal systems through bundling precision agronomic innovations for transitioning towards agricultural sustainability in North-West India (<https://tinyurl.com/2gbdrsh>)

Narrative of Evidence: Previous multi-year research efforts on Climate-smart Agriculture practices (CSA) including Precision Nutrient Management (PNM) created an enabling environment for national dialogue about policy changes to scale-out these practices. This national dialogue culminated in the recommendations of a recent policy report submitted to the Principal Scientific Adviser of India, "Agricultural Policies and Action-Plans for a Secure and Sustainable Agriculture". The proposal is increase nitrogen use efficiency by at least 25% over 2-5 years by promoting precision nutrient management tools, practices and strategies. In parallel, a consortium of public and private partners proposed to the Minister of Agriculture in India to incentivize farmers with cash payments for CO₂e-saving practices such as CSA and PNM. As a result of the national dialogue, at sub-national level, the state governments of Haryana and Bihar in India outlined an investment portfolio for scaling climate smart agriculture and climate smart villages across the states.

Milestones: <Not Provided>

Sub-IDOs:

- 31 - Reduced net greenhouse gas emissions from agriculture, forests and other forms of land-use (Mitigation and adaptation achieved)
- 9 - Reduce pre- and post-harvest losses, including those caused by climate change

Contributing Centers/PPA partners:

- CIMMYT - Centro Internacional de Mejoramiento de Maíz y Trigo / International Maize and Wheat Improvement Center

Contributing CRPs/PTF:

- CCAFS - Climate Change, Agriculture and Food Security
- Wheat - Wheat