

## Integrated precision nutrient management approach

**Project Title:** P1603 - Delivering cropland mitigation in regional emission hotspots through scaling cost-effective mitigation options and developing novel MRV mechanisms

**Description of the innovation:** By integrating various tools, techniques and strategies of precision nutrient management, we designed, evaluated and promoted integrated precision nutrient management approach in cereal systems.

**New Innovation:** No

**Stage of innovation:** Stage 1: discovery/proof of concept (PC - end of research phase)

**Innovation type:** Production systems and Management practices

**Geographic Scope:** National

**Country(ies):**

- India

**Description of Stage reached:** Integrated nutrient management approaches were developed, tested and evaluated in collaboration with key stakeholders. Several capacity development and engagement campaigns were organized and now federal and various state governments of India are adopting this approach to improve nutrient-use-efficiency, increase yield and income and reduced environmental footprint as byproduct.

**Name of lead organization/entity to take innovation to this stage:** CIMMYT - Centro Internacional de Mejoramiento de Maíz y Trigo

**Names of top five contributing organizations/entities to this stage:**

- BISA - Borlaug Institute for South Asia
- CSSRI - Central Soil Salinity Research Institute
- ICAR - Indian Council of Agricultural Research
- IPNI - International Plant Nutrition Institute

**Milestones:**

- Global donors and agricultural development organizations informed of options to support LED and agricultural climate readiness

**Sub-DOs:**

- 30 - Reduced net greenhouse gas emissions from agriculture, forests and other forms of land-use (More sustainably managed agro-ecosystems)
- 10 - Closed yield gaps through improved agronomic and animal husbandry practices
- 31 - Reduced net greenhouse gas emissions from agriculture, forests and other forms of land-use (Mitigation and adaptation achieved)

**Contributing Centers/PPA partners:**

- CIMMYT - Centro Internacional de Mejoramiento de Maíz y Trigo

**Evidence link:** <https://tinyurl.com/t2ygegw>

**Deliverables associated:** <Not Defined>

**Contributing CRPs/Platforms:**

- Wheat - Wheat