



**Climate Adaptation and Resilience  
(CARE) for South Asia Project**

**Innovations in Climate Adaptation and Resilience (iCARE)**

**Hyper-local medium-range weather forecasts to improve the  
climate resilience of smallholder coffee farmers in India**

<b>Project Name</b>	Hyper-local medium-range weather forecasts to improve the climate resilience of smallholder coffee farmers in India
<b>Lead Organization Name</b>	Precision Development Inc(PxD)
<b>Country of Implementation</b>	India
<b>Summary Description</b>	<p>Karnataka, the South Indian state which is the leading coffee producer in the country, accounts for over 50% of the total coffee planted area. In addition, 97% of the coffee farmers in Karnataka are small (owning 2 hectares or less) or medium-holders (owning between 2 and 10 hectares). These farmers have limited access to accurate weather information, making it difficult for them to undertake mitigation measures as rainfall patterns become more erratic.</p> <p>In response to this challenge, Precision Development (PxD) will provide accurate, hyper-local and customized rainfall forecast information paired with actionable advisory, to 50,000 coffee farmers in the state of Karnataka. The forecast information will be disseminated through voice-based push calls over the existing Coffee Krishi Taranga (CKT) - a two way Interactive Voice Response service that provides digital advisories to coffee farmers in South India. The forecast information will be developed by our partner and weather forecast provider Climate Forecast Applications Network (CFAN). The forecasts will be paired with climate-adjusted agronomic advisory, curated by PxD's team of experts who will monitor forecasts and adjust advisory as per the coffee crop calendar.</p>
<b>Expected Outcome</b>	Provision of accurate rainfall forecasts and associated climate adjusted advisories will allow farmers to take precautionary actions and minimize adverse consequences of weather shocks. The bundled service is expected to help farmers better manage weather-related risks, for example, making day to day decisions like timing of fertilizer application to prevent runoff, application of irrigation during dry spells and optimizing harvest timing around any unseasonal wet spells - potentially reducing losses, boosting farmers' productivity, consequently raising incomes, and building climate resilience.
<b>Partner Government Agency(ies)</b>	PxD will implement this project in partnership with the Coffee Board of India, a statutory body under the Ministry of Commerce and Industry, Government of India. The Board supports the project by providing essential logistical and infrastructural support, personnel, and knowledge sharing.
<b>Project duration</b>	15 Months

Implemented By



Supported By



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