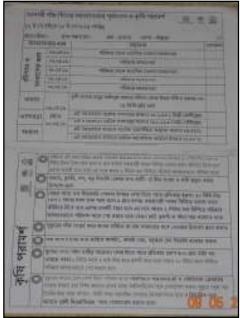# Case study - Automated weather stations and agro-advisory services at Bankura and Purulia

A total of 6 automated weather stations (AWSs) have been installed for monitoring and predicting weather patterns of Climate Change Adaptation project villages of Purulia and Bankura. The AWS continuously log data on rainfall, temperature, humidity, wind speed, wind direction etc. Data is collected on every 5 days interval by Community Resource Centre (CRC) manager and sent to meteorologist on time. The received analyses was

translated into local language and along with DRCSC knowledge practices for taking decisions according to the situations were circulated to the climate volunteers as well as community. CRC manager also collect time to time feedback from the farmers and share it with the meteorologist. A total of 280 weather prediction and advisories were disseminated to all project villages through what's app, e-mail, written display board, display printed hard copy in local languages (Bengali and Santhali). Approximately 12,000 households of 65 villages have received these messages on regular basis. Farmers have been able to reduce their cost by approximately 20% through following these messages and taking decisions regarding irrigation, application of organic manures, seed sowing time all of which have benefitted them economically. These advisories and

predictions have been most useful during taking decisions regarding the timing paddy harvest. Due to crop harvest at proper time crop damage rate is minimised. Each of the 370 households have contributed Rs. 180/- so that this weather prediction service an be continued even when the project ends. Climate kiosk volunteers are working dedicatedly to disseminate weather information to the community and also collecting regular feedback from them. Impact and accuracy of the AWS data provided was assessed by Department Of Environment, Government of India and the intervention was included in Global Climate Fund (GCF).

The weather forecast and agro-meteorological advisory service aided the farmers with adequate information so that they would be able to efficiently use the available natural resources. This have helped to enhance the quality of life of local farmers and also contributed towards increasing livelihood options by aiding them to take right, timely decisions.