

## **Success Story under PMKSY- PDMC (MICADA) Atal Bhujal Yojana**

### **Title**

**“A way for success is the efficient and judicious use of Ground Water”**

(Success story of Sh. Mohit Yadav s/o of Abhay singh Yadav, GP- Mandhana, Block-Narnaul)

**Category**– Agriculture (Demand Side)

### **Challenges**

The escalating groundwater scarcity in the Mandhana Gram Panchayat, Mahendragarh district, Haryana, poses significant challenges to agriculture. Depleting water levels, excessive extraction, and insufficient recharge mechanisms contribute to this issue. The impact on agriculture encompasses reduced crop yields, heightened reliance on unsustainable water sources, and increased competition among farmers for the limited water available. Additionally, this scarcity leads to declining water quality, adversely affecting soil fertility and crop health. Sustainable water management practices, efficient irrigation systems, and community-led initiatives are crucial to address these challenges and ensure the long-term viability of agriculture in the region. The water level in the Gram Panchayat is steadily deepening, estimated to reach 400 feet, while sources of freshwater such as ponds and rivers have dried up. During the rainy season, the region experiences only 10 to 12 days of normal rainfall, significantly impacting Mohit Yadav's struggles in farming.

### **Initiative**

The Pradhan Mantri Krishi Sinchayee Yojana (PMKSY), operating under the Micro Irrigation and Command Area Development Authority, has embraced the ethos of 'Per Drop More Crop.' Focused on alleviating water scarcity in regions, the government provides subsidies to farmers for micro irrigation Systems. In a collaborative effort with Atal Bhujal Yojana and MICADA, a proactive campaign unfolds in Mahendragarh district. The Atal Bhujal Yojana team synergizes with various government departments, disseminating awareness about groundwater conservation and micro irrigation systems.

A pivotal moment occurred during a village meeting in Mandhana, where Mr. Mohit Yadav and fellow farmers comprehended the advantages of micro irrigation. Opting for online applications through the department's site, they secured high-quality sprinkler systems at an 85% subsidy. Farmers like Mr. Mohit highlight the transformative impact of micro irrigation on farming practices. The shift from flood irrigation to micro irrigation not only preserves groundwater but also reduces water consumption by half. This, in turn, minimizes water pump operational hours, leading to decreased electricity consumption and labor costs.

The success story of Mr. Mohit and others underscores how PMKSY, with its holistic approach and strategic partnerships, is fostering sustainable agriculture practices while addressing water conservation challenges.

### Key Result

- **Efficient Irrigation:** Sprinkler systems deliver water directly to the crops, minimizing wastage and ensuring efficient water use.
- **Uniform Coverage:** They provide uniform water distribution, preventing overwatering in some areas and underwatering in others, promoting optimal crop growth.
- **Water Conservation:** By reducing runoff and evaporation, sprinklers help conserve water resources, making them essential for regions facing water scarcity.
- **Crop Health:** Properly irrigated crops lead to improved health and higher yields, benefiting farmers economically and ensuring food security.
- **Adaptability:** Sprinkler systems can be customized to various crops and field sizes, making them versatile and adaptable to different farming scenarios.
- **Reduced Soil Erosion:** By delivering water gently, sprinklers help prevent soil erosion, maintaining soil structure and fertility for sustainable agriculture.

### Impact

The farmer showed great interest in the project with numerous apprehensions because many new things did not align with their assumptions. However, within a few months, the farmers witnessed a positive response to the crops, comprehending the benefits of micro-irrigation sprinklers. Now, many farmers have adopted sprinkler system, and others are also expressing interest in micro-irrigation methods such as drip and underground pipelines for cotton crops in the Kharif season.

