

## Success Story of a woman farmer on cucumber cultivation.

District - Dhanbad

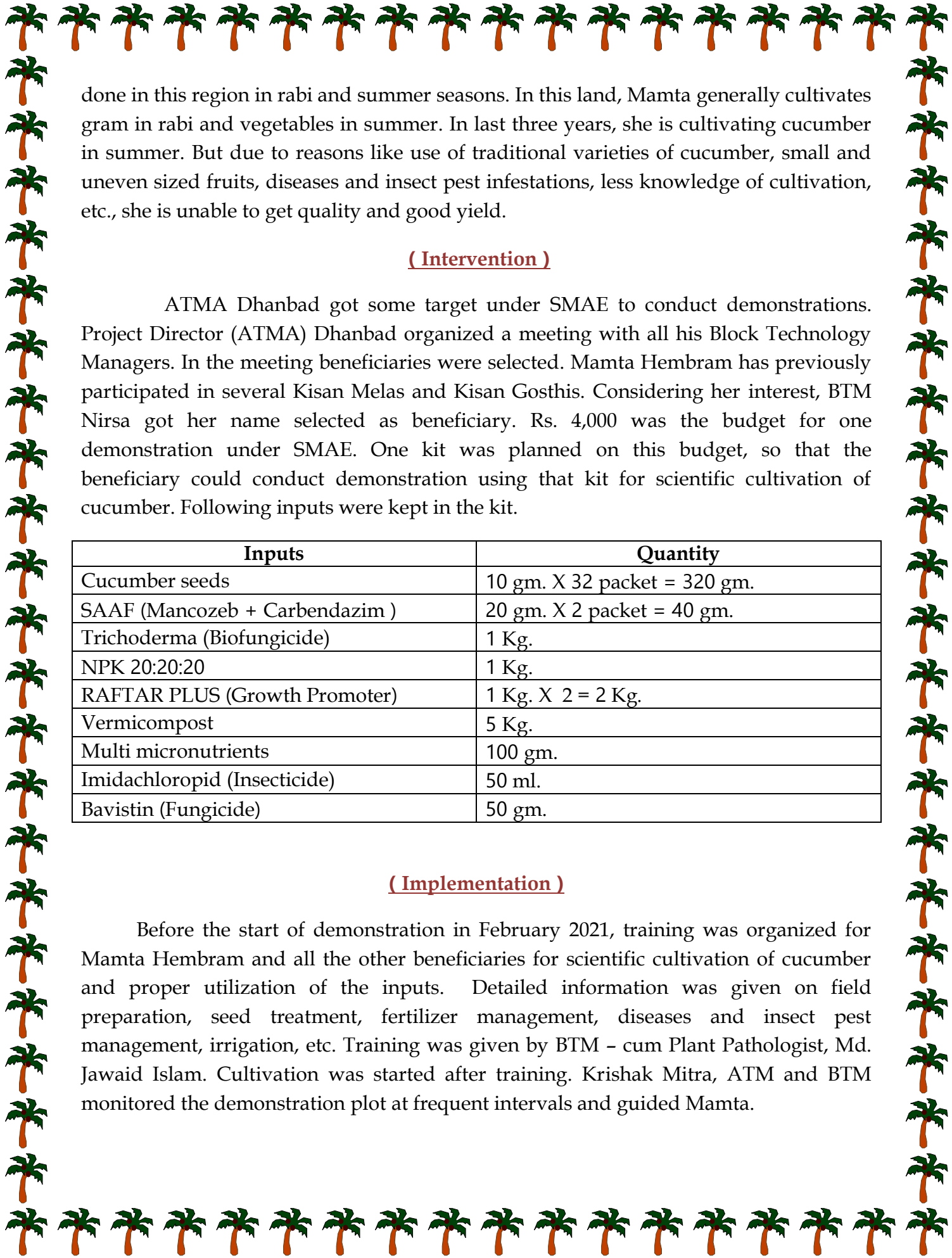
Name of Farmer	Mamta Hembram
Father Name	Binod Hembram
Village	Magurdih
Panchayat	Bhagabandh
Block	Nirsa
Post Office	Barbendia
District & Pin code	Dhanbad - 828205
Land holding	2.0 acres
Irrigated	1.0 acre
Unirrigated	1.0 acre
Mobile No.	6207149190
Membership in SHGs, Cooperatives etc	No
Names of the Central / State Scheme utilized by the farmer and the period.	SMAE ( Demonstration ) February to May 2021

### ( Introduction )

Village Magurdih is a small village located beside River Barakar, one of the farthest villages from district headquarter. Mamta Hembram is a women farmer of this village. Twenty two years old Mamta, is unmarried, and belongs to tribal community. Besides father & mother, she has two younger sisters and one younger brother in her family. Family is poor, main source of income comes from agriculture only. She is only intermediate pass, but still she is most educated person in the family as of now. Her one acre of land is just beside River Barakar. Another acre of land is situated in the interior of the village, and is non-irrigated. In this land, she cultivates paddy in kharif. For earning extra income, her father works as labour most of the times. So, the responsibility of cultivation lies on the shoulder of Mamta only.

### ( Issues and Challenges )

Every year, during the months of July to November, hundreds of acres of land besides the River Barakar get flooded with water. Cultivation of any crops is not possible during these five months. Mamta's one acre land also lies in this region. Though Damodar Valley Corporation has purchased all these lands from the owners, but allows the owners to cultivate in this land. Good cultivation of different crops is



done in this region in rabi and summer seasons. In this land, Mamta generally cultivates gram in rabi and vegetables in summer. In last three years, she is cultivating cucumber in summer. But due to reasons like use of traditional varieties of cucumber, small and uneven sized fruits, diseases and insect pest infestations, less knowledge of cultivation, etc., she is unable to get quality and good yield.

**( Intervention )**

ATMA Dhanbad got some target under SMAE to conduct demonstrations. Project Director (ATMA) Dhanbad organized a meeting with all his Block Technology Managers. In the meeting beneficiaries were selected. Mamta Hembram has previously participated in several Kisan Melas and Kisan Gosthis. Considering her interest, BTM Nirsa got her name selected as beneficiary. Rs. 4,000 was the budget for one demonstration under SMAE. One kit was planned on this budget, so that the beneficiary could conduct demonstration using that kit for scientific cultivation of cucumber. Following inputs were kept in the kit.

Inputs	Quantity
Cucumber seeds	10 gm. X 32 packet = 320 gm.
SAAF (Mancozeb + Carbendazim )	20 gm. X 2 packet = 40 gm.
Trichoderma (Biofungicide)	1 Kg.
NPK 20:20:20	1 Kg.
RAFTAR PLUS (Growth Promoter)	1 Kg. X 2 = 2 Kg.
Vermicompost	5 Kg.
Multi micronutrients	100 gm.
Imidachloropid (Insecticide)	50 ml.
Bavistin (Fungicide)	50 gm.

**( Implementation )**

Before the start of demonstration in February 2021, training was organized for Mamta Hembram and all the other beneficiaries for scientific cultivation of cucumber and proper utilization of the inputs. Detailed information was given on field preparation, seed treatment, fertilizer management, diseases and insect pest management, irrigation, etc. Training was given by BTM – cum Plant Pathologist, Md. Jawaid Islam. Cultivation was started after training. Krishak Mitra, ATM and BTM monitored the demonstration plot at frequent intervals and guided Mamta.

### ( Outcome and Impact )

A good and healthy crop of cucumber was obtained. There was hardly any attack of disease or insect pest. Fruits were proper and even sized which helped to get better market price. Yield obtained was also much better than the previous year.

	<b>Before implementation of scheme</b>	<b>After implementation of scheme</b>
Crop / Agriculture Practice	Traditional cultivation of cucumber	Scientific cultivation of cucumber
Yield of crop / Acre	2,900 Kg.	4,100 Kg.
Sale Value / Kg.	Rs. 11.00	Rs. 13.50
Input Cost / Acre	Rs. 3,500	Rs. 5,500
Labour Cost / Acre	Rs. 10,000	Rs. 10,000
Any other cost / Acre	Rs. 2,000	Rs. 3,000
Net savings / Acre	Rs. 16,400	Rs. 36,850

Last year from cultivation of cucumber, Mamta Hembram got net savings of Rs. 16,400 in one acre. But this year, after adopting scientific cultivation practices, she got net savings of Rs. 36,850 from one acre. Hard work of Mamta gave fruitful results, and the demonstration of SMAE by ATMA Dhanbad was successful.



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