



PROVA—a technical NGO working at Barind region of Rajshahi, Bangladesh for agricultural technology dissemination, climate change adaptation, Food & nutrition security, and livelihoods improvement since 1998
by: Dr M Yusuf Ali, Executive Director, PROVA, Rajshahi (yusuf709@gmail.com)

Presently working in a partnership program with OCP Foundation, Morocco through OCP-BARI-ICARDA Project (2019-2022).

Project Title: Sustainable management of soil health to enhance yields and farmers income under resilient production system in Bangladesh; resulting in food and nutrition security, improved health and livelihoods” Project (OCPF-BARI-ICARDA)

Major Activities

- Comparative effect of different Fertilizer package application on target crops: Lentil, Wheat, Onion, Garlic, Chili
- Block demonstration on modern varieties of different crops: Lentil, wheat, Onion, garlic, Blackgram, Mungbean, Transplanted Aus rice(spring rice)
- Resilient cropping systems through inclusion of legumes biomass in soil and soil fertility management
- Farmers hands-on training on above crop production and seed preservation
- Women farmers training on seed preservation, value addition, food preparation for better shelve life and family nutrition
- Farmers field days, field school and field visit
- Agricultural extension staff training/ result sharing
- Publication of pamphlet/brochure for farmers

Fig. Lentil (BARI lentil8) yield response to different fertilizer application and economic return(3 years mean)

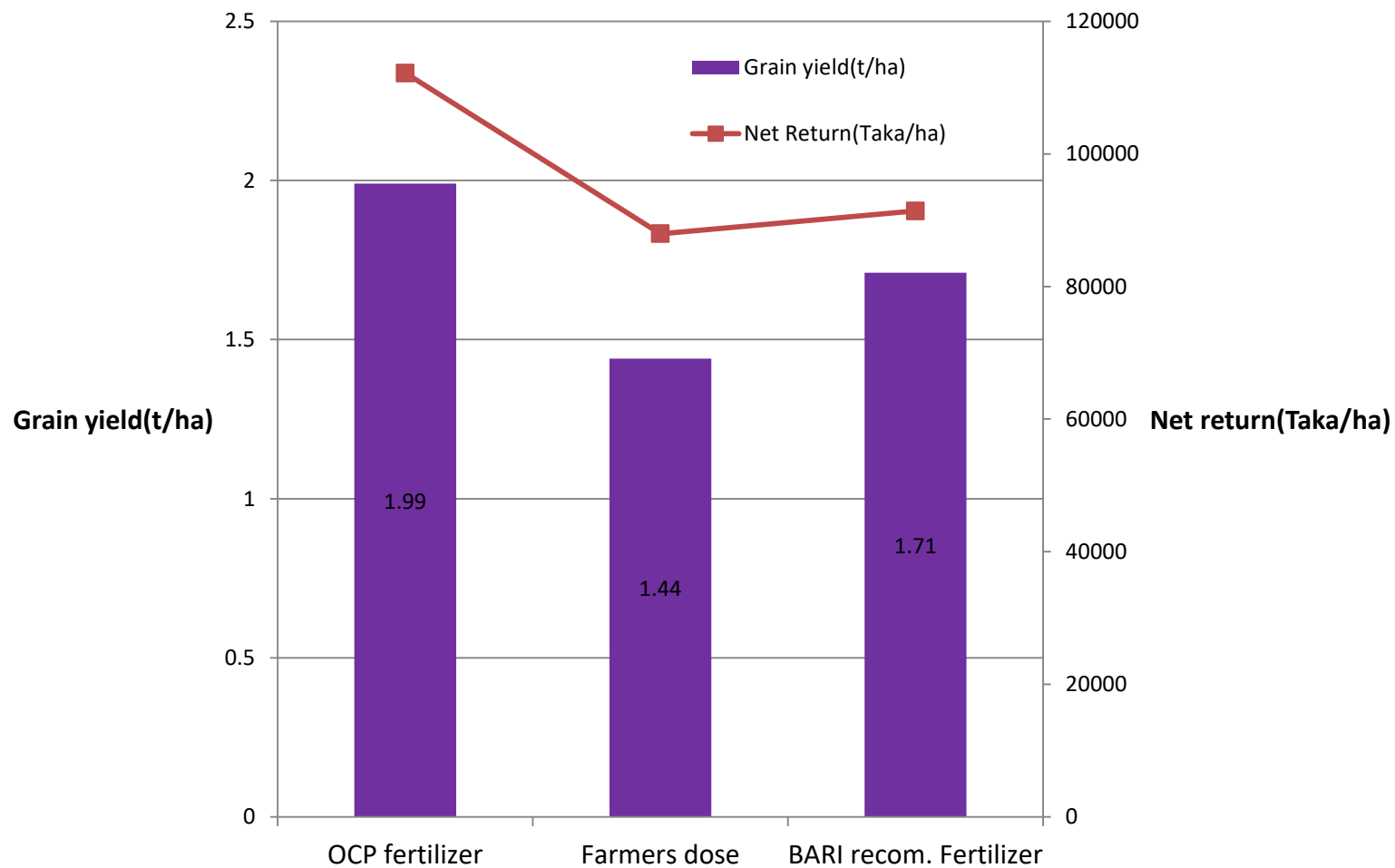


Fig. Wheat(BARI Gom 30) yield response to different fertilizer application and economic return

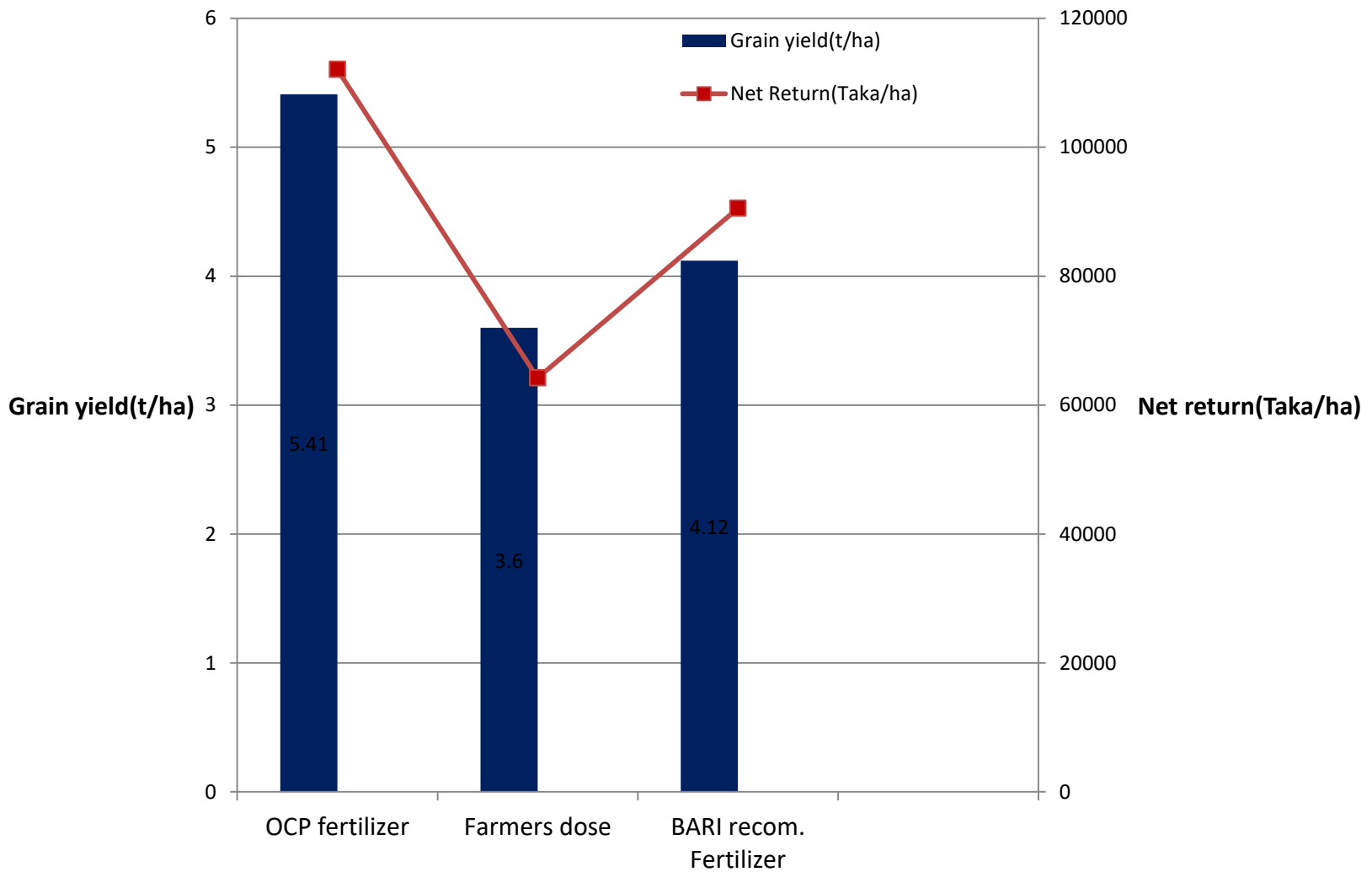


Fig. Onion (BARI Pias1) bulb yield response to different fertilizer application and economic return

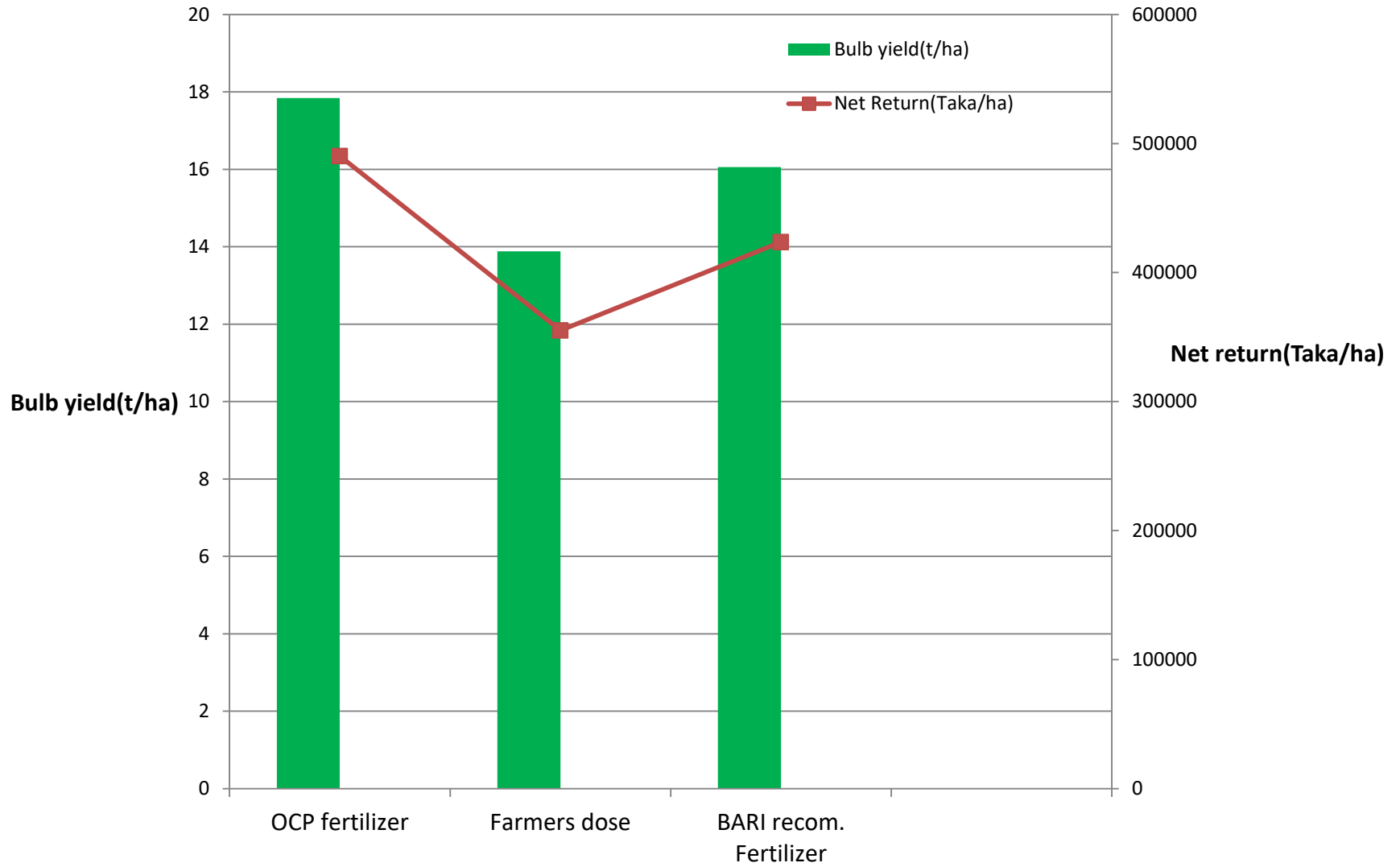


Fig. Garlic(local) bulb yield response to different fertilizer application and economic return

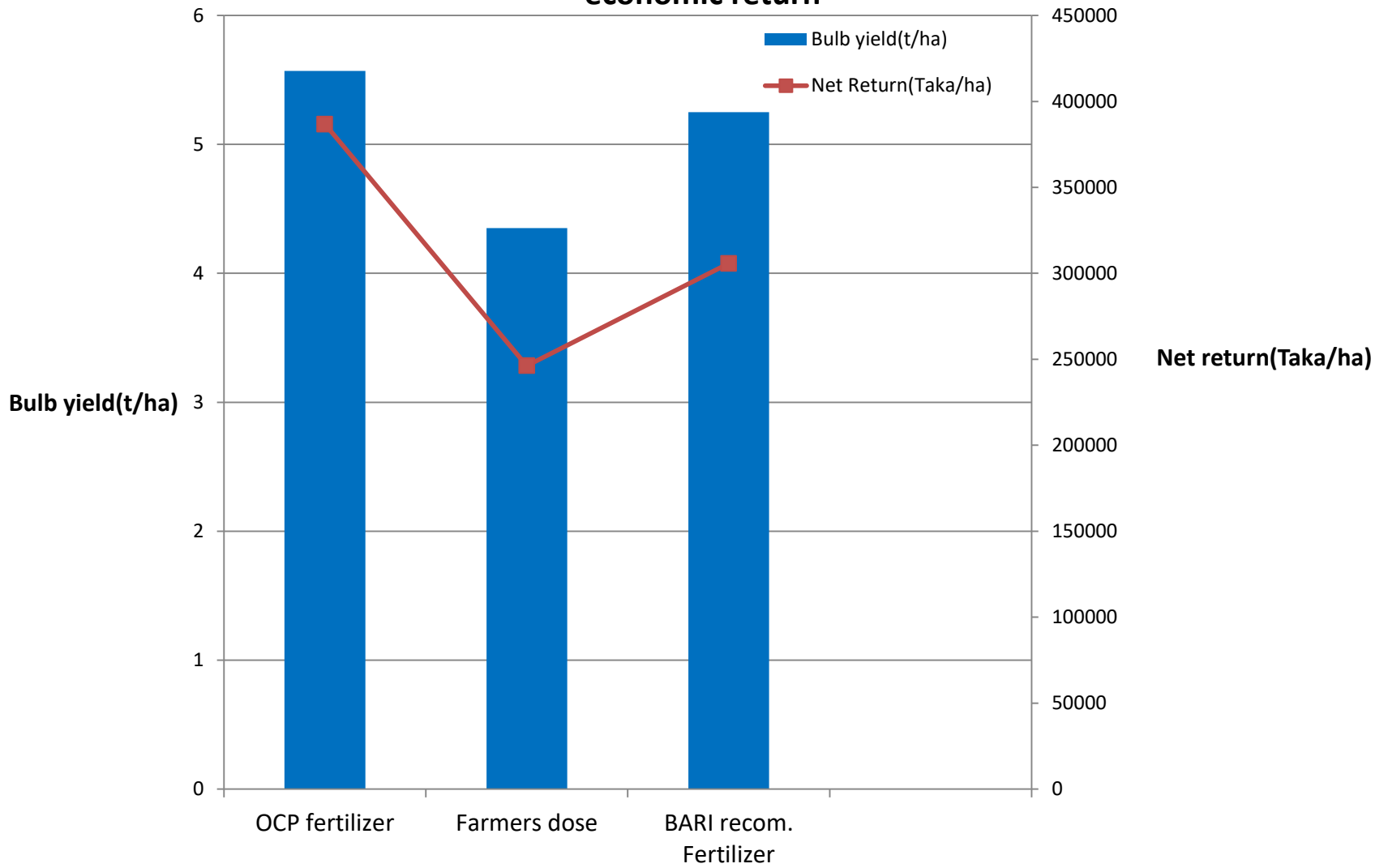


Table: Mean result of Large Block demonstration of different crops at Chapai-Nawabganj, Rajshahi, Bangladesh under OCP-BARI-ICARDA project, 2019-2021

Crop name	Yield (kg/ha)	Adjacent farmer's yield(kg/ha)	Net return(Taka/ha)
Lentil (BARI masur8)	1746	1583	101,185
Wheat(BARI Gom 30)	3892	3670	68,152
Onion(BARI Piaj1)	5239	4456	77170
Garlic(Local)	5200	4300	164,000
Mung bean(BARI Mung 6)	788	Nil (newly introduced)	46,611
Black gram(BARI Mash3)	889	Nil (newly introduced)	43,340
T.aus rice(BRRI dhan 75/76)	5200	4500	40,000
Chili(local)-green	2000	1500	150,750

Rabi, Kharif-I and Kharif-II season crops

Table 1: Information of beneficiaries under OCFP –BARI-ICARDA Project-PROVA site at Chapai-Nawabganj

Items	Total number of beneficiaries		Total number of beneficiaries		Total number of beneficiaries	
	1 st year		2 nd year		3 rd year	
	Direct	Indirect	Direct	Indirect	Direct	Indirect
Demonstration	72	90	72	110	72	130
Seed production	8	20	8	35	8	50
Training	70	30	70	40	70	45
Field days	100	150	100	170	100	200
Field school meeting	60	50	60	80	60	100
Seed collection from project farmers	80	95	90	102	95	120
Collection of information on production technology	200	280	260	300	320	390
Supply of brochure/booklets of the project	1000	120	1000	180	2000	190
No. of trials	5	-	5	-	5	-
Total number	1595	835	1665	1017	2730	1225
Total number of farmers reached in three years	9,067					

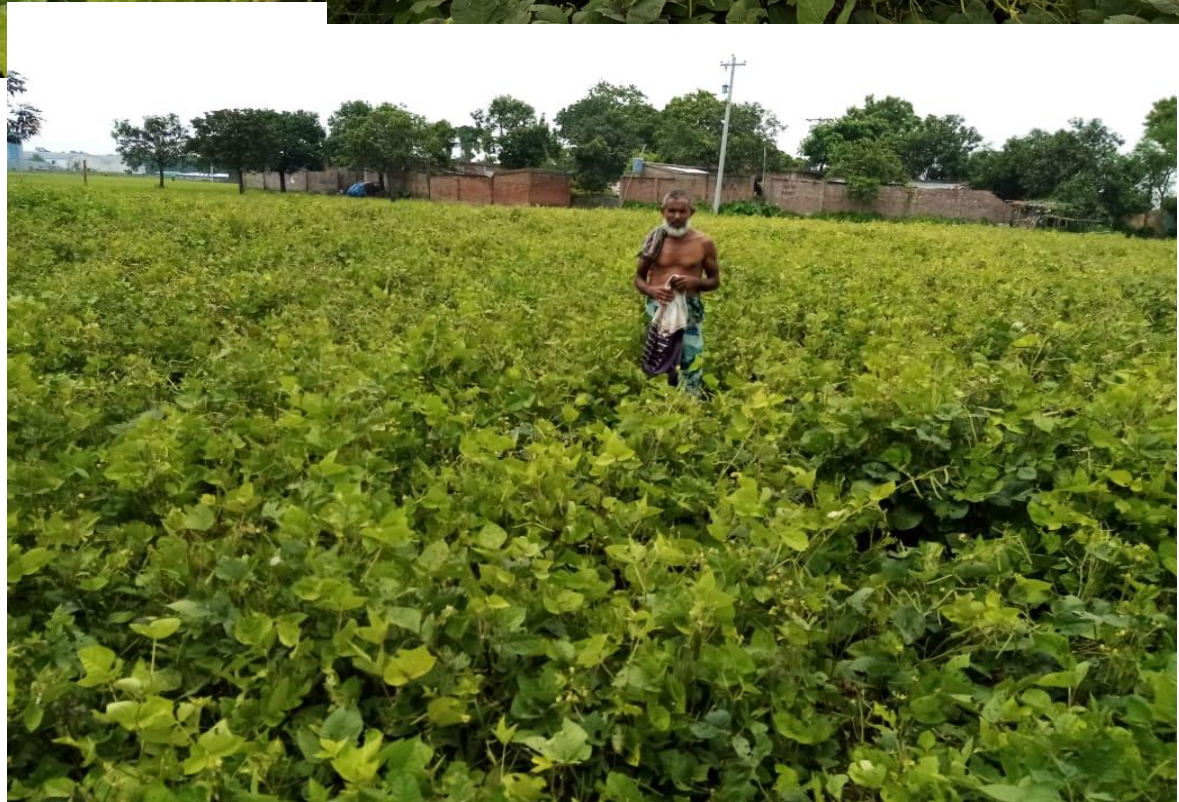
Table 2: Information of area covered under OCFP-BARI-ICARDA Project (Upazilla and villages) by PROVA at Chapai-Nawabganj

Name of Upazilla		Name of villages	Name of villages	Name of villages
		1 st year	2 nd year	3 rd year
Chapai-Nawabganj Sadar (Total 16 Villages covered)		6 (six): Dhinagor, Vhabuk, Dangpara, Roadgram, Allauddingram, Jonotapar	5 (five): Rahimpara Kalikadhighi Belghachi Kendul Jamtola,	5 (five): Tetulia, Buradang, Boktarapara Kalnadhighi Sukandhighi



Lentil Trials and Demo.





Mungbean Demo.



Blackgram Demo.

T. Aus Rice Demo.





Onion Trial and Seed production



Garlic Demo.





Training (Men and Women)



Farmer's Field days



FUNDATION
ICARDA
মসুর, গম, পিয়ার, রসুন ও মরিচ ফসল উৎপাদনের
মাঠ দিবস
রবি মৌসুম-২০২০
স্থান: তেঁতুলিয়া, আমদরা, নরাবগঞ্জ তারিখ: ২১.০৩.২০২০
Funded by: OCPF-BARI- ICARDA Collaborative Research Project
সম্প্রদায়নে: PROVA, রাজশাহী

PROVA Key Achievement for Technology Transfer at Barind area(Chapai-Nawabganj) through OCP-BARI-ICARDA Project

- Reached more than 9,000 farmers of 16 villages in three years and improved their knowledge and capability to grow modern varieties of high value crops round the year
- Showed yield of crops(Lentil, wheat, onion, garlic, Mungbean, Blackgram, Chili, Transplanted Aus rice) could be increased significantly(20-40 %) and economically by scientific management
- For T.aman rice Nitrogen and Phosphorus fertilizer requirement was reduced after Mungbean cultivation. No Urea fertilizer is applied, only 30 % TSP and 80 % MoP is applied. T.aman yield increased by 10-15 % by inclusion of legume biomass in soil (as per farmer's data)
- **Technology on Seed preservation and Value addition of crops were transferred and adopted by farmers**
- Farmers yield and income were increased paving the path of better food and nutrition security, poverty reduction and livelihoods improvement

Thank You

