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NATIONAL & INTERNATIONAL BIO-EFFICACY TRIALS OF PRATHISTA ORGANIC FERTILIZERS

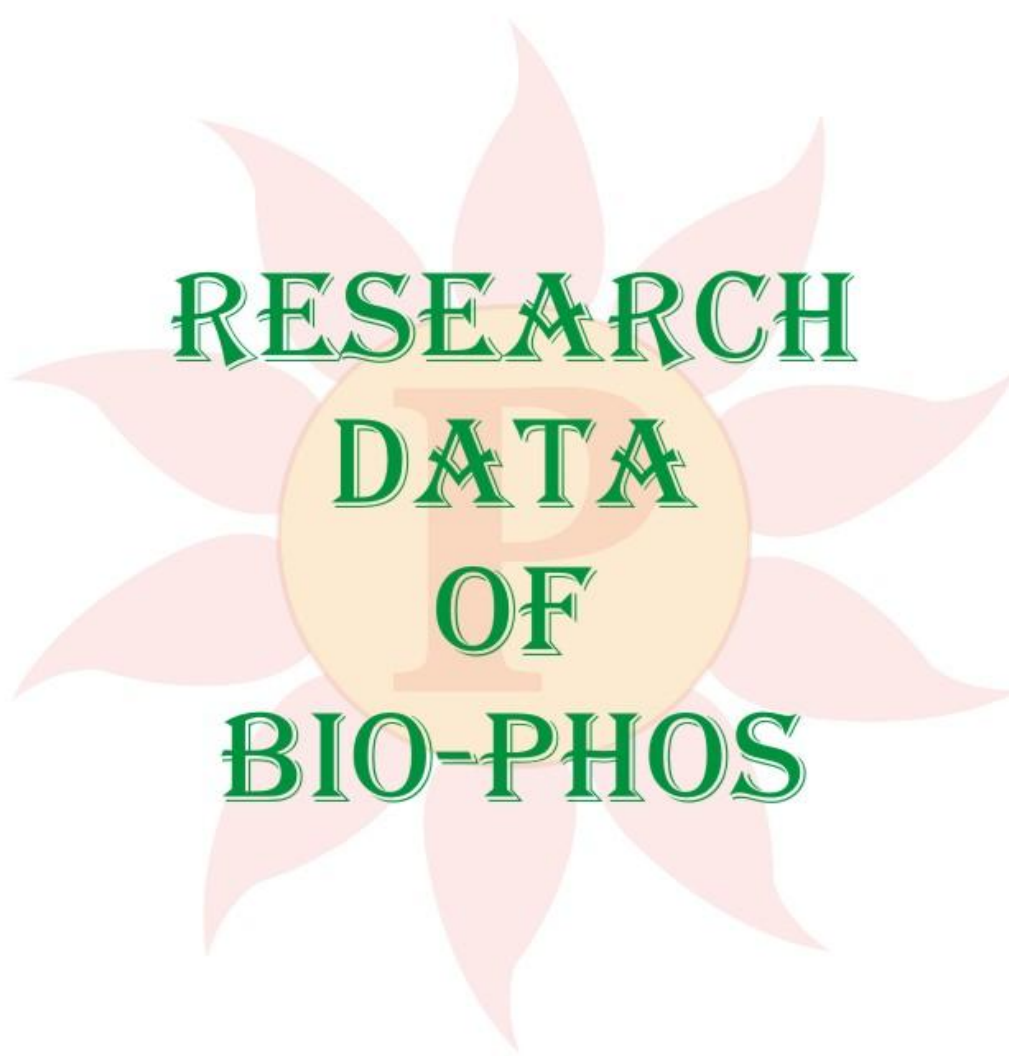


PRATHISTA INDUSTRIES LIMITED

AN ISO 9001, 14001 & OHSAS 18001 CERTIFIED COMPANY

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**RESEARCH
DATA
OF
BIO-PHOS**



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Bio-Efficacy Trails of
PRATHISTA ORGANIC FERTILIZERS

EVALUATION OF BIO-PHOS ON BHENDI (*Abelmoschus esculentus*)

**G.B PANT UNIVERSITY OF AGRICULTURE AND TECHNOLOGY,
PANTNAGAR, UTTARANCHAL**

Objective : To study the bio efficacy of BIO-PHOS on Bhendi

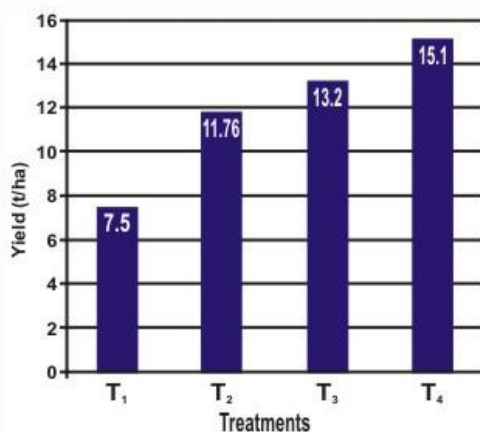


TREATMENTS & YIELD (t/ha)

T ₁	Control (no fertilizers)	7.50
T ₂	NK (100 : 50 Kg/ha)	11.76
T ₃	NPK(100 : 50 : 50 Kg/ha)	13.29
T ₄	T ₂ + Bio Phos @ 25Kg/ha	15.10

RESULTS

- Maximum yield (15.1 t/ha) was recorded under the Treatment T₄, where 25kgs of Bio-Phos was applied in combination with recommended dose of N&K, compared to the yield of 13.29 t/ha in treatment T₃, where 100% recommended dose of NPK was applied through Inorganic sources.
- The results therefore suggests that Bio-Phos @ 25kgs/ha can be an effective substitute to the application of 50 kgs of P₂O₅ as DAP.





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BIO EFFICACY TRIAL OF BIO-PHOS IN COTTON

(*Gossypium hirsutum*)

Department of Horticulture, University of Agricultural Sciences,
GKVK, Bangalore

Objective : To study the Bio efficacy of BIO-PHOS on the yield
of Cotton

TREATMENTS

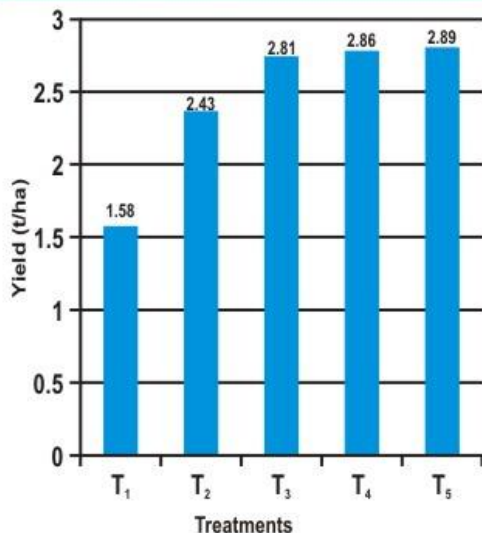
T ₁	Control (no fertilizers)
T ₂	NK (100:50 Kg/ha)
T ₃	NPK (100 : 50 : 50 Kg / ha)
T ₄	T ₂ + Bio-Phos (Granules - 25 Kg/ha)
T ₅	T ₃ + Bio-Phos (Granules - 25 Kg/ha)

Plot size : 6m x 4m
Randomized blocks design (RBD)
Replication : 5

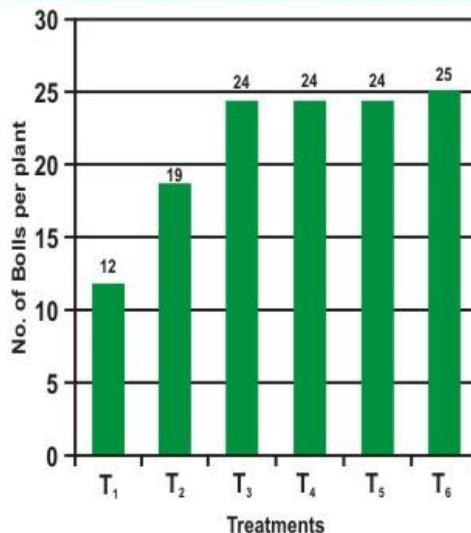
RESULTS

- ◆ Application of Bio Phos (25 Kgs) in combination with recommended dose of N&K (T₂) resulted in comparative yield (2.89MT / ha) as was obtained in treatment T₃ (100% recommended dose of NPK).
- ◆ The results further indicates that no additional yield advantage was noticed by applying additional dose of 25 kg Bio -Phos in combination with 100% recommended dose of NPK (T₃).
- ◆ The results therefore suggest that Bio-Phos can be used as an effective substitute for Inorganic source of P without any reduction in the yield.

EFFECTS OF BIO-PHOS GRANULES ON THE YIELD OF COTTON



EFFECTS OF BIO-PHOS GRANULES ON THE NO. OF BOLLS IN COTTON





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EFFECT OF DIFFERENT DOSES OF BIO-PHOS (G) ON GRAIN YIELD OF WHEAT (*Triticum aestivum*)

Narendra Deva University of Agriculture and Technology, Faizabad, U.P

Objective : To study the effect of different doses of BIO-PHOS
on the yield of wheat

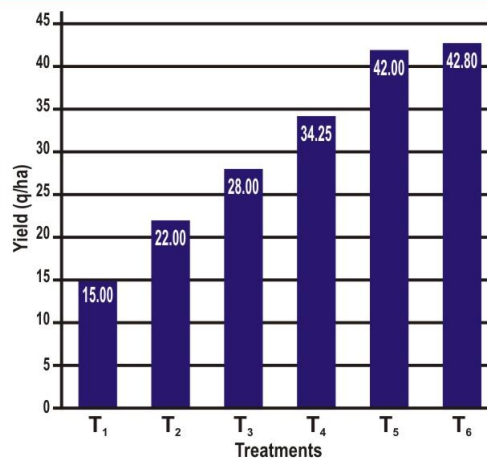


TREATMENTS & YIELD (q/ha)

T ₁	Control (no fertilizers)	15.00
T ₂	Bio-Phos 5 Kg/ha + Recommended dose of N&K	22.00
T ₃	Bio-Phos 10 Kg/ha + Recommended dose of N&K	28.00
T ₄	Bio-Phos 15 Kg/ha + Recommended dose of N&K	34.25
T ₅	Bio-Phos 25 Kg/ha + Recommended dose of N&K	42.00
T ₆	Bio-Phos 35 Kg/ha + Recommended dose of N&K	42.80
	Sem	2.02
	CD at 5%	5.05

RESULTS

- The results indicate maximum yield with the application of 35 kgs of Bio-Phos per ha (T₆ – 42.80 q/ha) . But this treatment was on par with T₅ (25 kgs per ha – 42.00 q/ha). Hence, the optimum dose of 25 kgs/ ha can be recommended.





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PATHOLOGICAL ANALYSIS, QUALITY VERIFICATION AND FIELD EVALUATION OF BIO-PHOS IN BEANS

(*Phaseolus vulgaris*)

Dr. Herbert Talwana, Department of Crop Science, Makerere University, Uganda.

Objective : To study the Bio efficacy of BIO-PHOS on the yield attributes of Beans.



TREATMENTS

T ₁	Control (no fertilizers)
T ₂ - Prathista Protocol Package	Sprayed with BIO-PHOS (3ml. per liter)

Variety Tested - K132

Plot size : 50m x 5m

Replication : 3

RESULTS

- BIO-PHOS fertilizer of organic origin does not contain disease causing pathogen.
- Bio-Phos treated plots (T₂) resulted in higher number of pods per plant (17.2 over 12.6) and higher number of seeds per pod (4.8 over 3.5) over control.
- Application of Bio-Phos resulted in improved plant growth and higher yield of beans (19.1 kg/250m² over control 16.1 kg / 250m²).

