





Seed management

Under

MISP

Q.1. How community select seeds (please mention crop wise, ex. Rice, wheat and vegetables)?

Farmers are the best selectors of the quality seeds. Selection of seeds largely depends on successful demo effect, peer learning etc, community identify source of good seed from own community even through exchange traditionally within themselves. However, seed stores supply branded seeds/varieties also play important role now-a-days.

Q.2. How community preserve seeds (please mention the method in detailed)

- For rice, wheat, maize & other cereals etc.- Sunning of seeds for 4-6 hours at 2 months intervals. Stored in mud bins at dry and cool place.
- For Cereals, pulses & oil seeds- Seed dressing with Pamarosa oil or with neem oil 2 tsf/kg seed/ Use of wood ash & charcoal during storage
- All seeds- cereals, pulses, vegetables- Use of neem/ karanj (Pongamea) etc. shed dried leaves or neem seed kernel powder

Q.3. How community is availing the quality seeds in time (please mention the mechanism and the strategy ex. Seed bank etc.)?

In rural Bengal, there is traditional practice of collecting seeds from the farming community. Particularly in our project area, women Farmers are vigilant to search for good germ plasm within reach. Mks preserve seeds in seed bank after proper seed treatment to protect seeds from fungal and micro bacterial infection and meets group's own need during their cultiatvion. This process assured quality seed in time at fare price. In addition to that, they also store seeds individually. Women farmers identify crop wise growers who maintain quality germ plasm with specialty and collect seeds and store. The collection of seeds is generally done through exchange system and the farmers try to regenerate. There are more than 100 group based seed banks in our project area.









Q.4. Please describe the seed treatment elaborately?

Sl. No	Crop (name of the crops)	Method of seed treatment (physical/biological/microbial/organic-please choose one option at a time)	When to be done (how many days before sowing?)	What are the benefits of this treatment	how to prepare the seed treatment mixture?
1	Rice, wheat, maize & other cereals etc.	Sunning of seeds for 4-6 hours at 45-60 days interval.	Before using seed	Reduce fungal presence on grains	Cereal seeds- morning 8 to 14 hours, 3-4 times stiring Sunning of vegetable should exposed to sun only in morning hours
2	Rice	Seed deep in 16.5% saline water solution	After 1-2 sunning	Screening bold seeds, healthy seeds	Dissolve 1650 gram of common salt in fresh water, put seeds and stire, take out seeds settled at the bottom & wash in fresh water
3	Rice, wheat, maize & other cereals etc.	Seed soaking in diluted cow urine solution for 2 hrs. to kill both fungal and bacterial infection	After screening of seeds	Control both fungal and bacterial contaminants out side and inside of the seed husk	1 part of 2-3 days old cow urine mixed with 4 part of fresh water
4	All cereals, oil seeds, pulses	Seed dressing with Trichoderma Viridae (TV)4g/kg of seeds & seedling deep	At seed sowing as seed dressing materials	Check sheath blight, sheath rot, brown spot,	· ·





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	seeds, vegetable			leaf blight for 45 days				
	seeds &							
	seedlings							
5	Cereals, pulses &	Seed soaking with Pseudomonus	Alternative to TV	-do-	10g P. fluoresense			
	oil seeds,	fluoresense solutions & seedling deep		45 days	mixed in 300 ml fresh			
	vegetable seeds				water and soak 1 kg			
					seed for 4 hours			
6	Cereals, pulses &	Seed dressing with Pamarosa oil or with	Before storing seed	65-75 days	Seed dressing in 4 tsf			
	oil seeds	neem oil of 2 tsf/kg seed		repell store grain	said vegetable oils.			
				insect pest, fungal	Pudina oils equally			
					effective			
7	Cereals, pulses &	Use of wood ash & charcoal during	After drying of seed	Reduce moisture	Seed mix with cool			
	oil seeds,	storage		considerably in storage	and dry wood ash &			
	vegetable seeds			(control 3-6 months)	charcoal: 300g/ kg of			
					seed in storage bean			
8	All seeds-	Use of neem/ karanj (Ponganea) etc. shed	-do-	Repel store grain	1-2% neem seed			
	cereals, pulses,	dried leaves or neem seed kernel powder		insect pests for 3-6	kernel powder or 2-5%			
	vegetables			months. Equivalent to	neem etc. said leaf			
				Malathion	powder mixed			
					thoroughly with			
					storage seed. Effective			
					for 3-6 months.			







Q.5. what is the mechanism of minimizing the seed requirement without compromising with the yield? Please mention the strategy and the reason behind it.

Ans. By adapting latest changes in approaches of cultivation like:

- SRI (for rice)- seed requirement reduced to 1/10th
- SWI (for wheat)- do-
- SMI (for maize)- do
- TPS (for potato)- need 50gm true potato seed against 4-5 quintal of seed tubes/acre









SEED MANAGEMENT







Group seed bank for seed sovereignty and income generation activity, Majidih, Purulia.







SYSTEM APPROACH (SRI)







































PIA'S Role





