

Technology Developed during 2021-22

One technology developed from Seed Technology Division, Bangladesh Agricultural Research Institute (BARI), Joydebpur, Gazipur during 2021-22. The technology was-“**Production of better quality seed of Onion through Gibberellic Acid treated mother bulb**”.

Description of technologies

Sl. no.	Topic	Description
1.	Technology name	: Production of better-quality seed onion through Gibberellic Acid
2.	Technology characteristics	: <ul style="list-style-type: none"> <input type="checkbox"/> Onion bulb soaked with 300 ppm of GA₃ before 48 hours sowing would give higher seed yield with better seed quality of BARI Piaj-1 <input type="checkbox"/> Average seed yield would be 780-790 kg/ha which is increased 15-20 % yield than normal average seed yield. <input type="checkbox"/> Seed germination: 90-95 %. <input type="checkbox"/> Number of umbel per plant would be 6-7. <input type="checkbox"/> Farmers will be benefited by maximizing quality seed production
3.	Suitability	: All over the Bangladesh.
4.	Application information	: <p>Variety: BARI Piaj-1 Sowing time: October-November Bulb seed rate: 3000-5000 kg/ha Spacing: 20 x 15 cm Fertilizer dose: Urea: 250 kg/ha, TSP: 275 kg/ha, MoP: 150 kg/ha, gypsum: 110 kg/ha, zinc oxide:3 kg/ha, Boric acid: 5 kg/ha and Cowdung 5-10 ton/ha.</p> <p>Fertilizer application method: Entire amount of Cowdung, TSP, Gypsum, Zinc, Boron, one third of Urea and half of MoP, would be applied during land preparation. The remaining two third of and half of MoP will be top dressed in two equal splits at 25 and 50 days respectively after bulb or directly seed sowing.</p> <p>Weeding at 2-3 times or more and Irrigation should be done at 8-10 times. Irrigation should be stopped before one month of harvesting when onion bulbs are matured Water logging should be avoided.</p> <p>Insect control: Whenever it will be necessary Harvest time : 150-170 DAS</p>
5.	Yield/achievement from the technology	: Seed yield will be increased up to 15-20%