

Gap filling : The dead hills are to be re-transplanted within 7-10 days of transplanting.

Water Management : Irrigation water is to be applied to maintain 3-5 cm of standing water in the field after 2 to 3 days of transplanting upto 7 to 10 days before harvest..

Weeding : Two(2) weedings are to be given preferably at 20-25 and 40-45 days after transplanting. Rotary weeder (Japanese paddy weeder) or cono weeder can also be used after top dressing to incorporate the urea with the soil in between lines.

Butachlor granule @ 30 kg/ha can be applied with in 2 to 3 days of transplanting in 3-4 cm of standing water. If granules not available Butachlor liquid @ 1.5 kg a.i/ha mixed with 400 ltr of water (400ml/bigha) or Pendimethalin @ 1.0 kg a.i/ha in 400 ltrs of water may also be applied.

Diseases Control :

a. Bavistin---1g/lit b.Hinosan-----1ml/lit

Insect& pest : a. Chloropyriphos---1-1.5ml/lit b. Monocrotophos----1-1.5ml/lit

c. Stem borer/Nematode : Furadon---3g/sq.m Thimet 10 G---1g/sq.m

Gandhi : Malathion 5% Dust----3-4 kg/bigha

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PACKAGE OF PRACTICES FOR BORO RICE



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Boro rice is most popular crop in valley and foot hills areas of West Garo Hills district of Meghalaya and the productivity could be increased with the use of the following improved technology.

Land Selection : Low lying typical boro areas or irrigation command areas are to be selected.

Variety :

Variety	Duration (days)	Yield (t/ha)
Bisnuprasad	165 -175	4.5
Jyotiprasad	165-175	4.5
Joymoti	165 -175	5.1
Kanaklata	165-175	5.5
Chandrama	165-175	4.5
NBR-2	165-175	4.5
NBR-3	165-175	4.5
TRC Boro dhan-1	140-150	5.5
Dinnath	160-165	6.3
Swarnabh	160-165	6.2
Hybrid Pro Agro 6444	170-175	7.5
DRRH 1	165-170	7.1
KRH 2	175-180	6.0

Sowing Time : Nov/Dec

Transplanting Time : Dec/Jan

A. Seed Selection : Select the healthy seeds by rejecting the floating ones using 2.5 % salt solution i.e. 250 gm of common salt in 10 ltr of water for 5 minutes. Wash the seeds several times in clean water and dry in shade.

B. Seed treatment :

(a) **Wet method :** After selection of the seeds are to be soaked directly in any one of the following fungicidal solution for 24 hrs.

a. Bavistin@1.0 gm/lit of water b. Captaf@2.5 gm/lit of water c. Foltaf@2.5 gm/lit of water. One (1) litre of fungicidal solution is required to treat one(1)kg of seed

(b) **Dry method :** Seeds and any one of the following fungicides are to be put in a closed container and then agitated for 5 minutes for thorough mixing

a. Bavistin@ 2.0 gm/kg of seed b. Dithane M-45@2.5 gm/kg of seed c. Captaf@2.5 gm/kg of seed d. Foltaf@2.5 gm/kg of seed

C. Raising of Seedlings : (a) **Seed bed preparation :** Flat seed bed are recommended. Beds should be 125 cm wide and 10 m long with 30 cm gap between 2 beds. 6-8 such beds are required for transplanting of 1 bigha land.

20-30 kg cow dung/Compost; 80 gm of Urea; 80 gm of SSP and 40 gm of MOP/bed should be applied.

(b) **Seed Rate :** Pre-germinated seeds are to be sown @ 650-1000 gm/bed. Seeds required for transplanting of 1 hectare main filed is 40-45 kg (5-6 kg/ bigha)

(c) **Plant protection in Seed beds :** (i) Spraying with Bavistin@1 gm/lit of water or Hinosan @ 1 ml/lit of water is to be done as soon as 1 or 2 blast spots are seen.

(ii) In Root -Knot Nematode and Stem Borer endemic areas Furadon 3G granules @ 3 gm/sq. metre or Phorate (Thimet 10 G) @ 1 gm/ sq. metre or Basudin 10 G @ 1 gm/sq.metre is to be applied after 5 days of sowing.

Generally an insecticidal spray at 5-7 days after sowing is effective against most insect pests in nursery.

a. Chloropyriphos 20EC ---0.10 b. Quinalphos 25EC ---0.15 c. Monocrotophos 36EC ---0.12 d. Phosphamidon 100EC ---0.07 e. Endosulfan 35EC -----0.14

High volume spray: 400ml of water/10 sq meter.

Low volume spray: 100ml of water/10 sq meter.

(d) **Preparation of seedling for initial protection in the main field :** After washing the roots of uprooted seedlings the roots portion is to be dipped in 0.02 % solution of Chloropyriphos (1 ml/ltr of water) along with 1% urea(10 g/lit of water) for 3 hrs as a protective measure against stem borer, gall midge and hoppers.

Alternatively, Furadon 3 G @ 3 gm/sq metre or Phorate 10G @ 1 gm/sq metre is to be applied in the seed bed 5 to 7 days before uprooting of the seedlings.

Alternatively spray 0.05 % (2.5ml/ltr) Chloropyriphos in the nursery 5 days before uprooting of seedlings.

(e) **Age of seedlings :** 5 to 6 leaf stage (25 to 30 days) is suitable for transplanting.

Field Preparation : The field should be plough 3 to 4 times followed by laddering. Leveling should be done properly to retain water uniformly in the field.

Fertilizer Management : In irrigated areas 60-30-30 NPK kg/ha or 18 kg urea, 27 kg SSP and 6 kg MOP and 12-15 quintal FYM/bigha is to be applied.

Time of Application : For irrigated area 1/3rd Urea as basal ; 1/3rd Urea at the time of Tillering (20-25 days) and remaining part of Urea is to be applied at Panicle Initiations(40-45 days) stage. Whole SSP and MOP is to be applied into the soil at final land preparation.

Spacing : Row to row is 15-25 cm. Plant to plant 10-20 cm **Depth of planting :** 5 cm **Number of seedlings/hill :** 2-3 numbers