

Sowing time		<p><u>Nursery sowing</u> End of Oct. start of Nov.</p> <p><u>Transplanting time</u> End of Jan.-</p>
Varities		<p><u>Burley Tobacco Varieties</u> Black Shank Susceptible NC-3, NC-2000, N-126, NC BH 129 Black Shank Resistant TN 86 LC, TN 90 LC, TN 97 LC, KT 204 LC <u>Flue Cured Tobacco Varieties</u> Black Shank Susceptible NC 299, NC 80 Black Shank Resistant NC 297, RGH4, NC102</p>
Seed Rate		9-12 g/5 Sq ft (Nursery) / acre
Sowing Method		Broadcast (Nursery)
Irrigation	Irrigation time	Sprinkler irrigarion 3 times a day in first few days to keep the soil wet. After Transplant 1-2 immediate irrigations
	Water Requirmetn	
	No of irrigation	12-14
	Irrigation Interval (days)	15-20 days

Major Nutrient Requirement	Macro nutrients	N: 46 kg/acre	P: 34 kg/acre	K: 34 kg/acre
	Fertilizer Dose	Urea 2 bags	SSP 2 bags	3/4 bags K ₂ SO ₄
	Time of Application	2-3 applications	at the time of land preparation	

Micronutrients requirment	Nutrients deficiency symptoms	N: Loss in green color start from older leaves, stunted growth, small leaves, pale yellow stem, small leaves	P: stunted growth, dark color of dull luster in cured leaf	K: yellow motteling on leaves, rim firing and stunted growth,	Zn: Yellowing of leaves Dark green color of veins
	Control measure	Builder @500 ml/acre through spray			Trophy @ 500 ml/acre through spray

IPM (Insect Pest Management)	Insect/Pest	Cut worm	Aphids, White fly	Budworm
	Control	Removing weeds from around the bed area 1-Agritox 50EC @1 kg/acre (fertigation) 2-Thiodon 345-Ec @ 1.5 L/acre (fertigation, 2-3 times with 20days interval) 3-Larsaban 40-EC @ 1.5 L/ acre (fertigation 20 days interval) 4-Tamron 60-SI @ 0.7 L/acre (fertigation) 5-Birlan 10-G @ 5Kg/acre (incorporate at hoeing time, 2-3 applications , 20 days intervals)	1-Metasystox R-25 EC 500 ml/ 270 L water/ acre (2-30 time with 20 days interval), 2-Disyston 10 G @ 4-8 kg/acre (also viricides, nematocides), 3-Tamaron 50 EC @0.5 kg/acre 4-Dimecron 100 EC @ 120 L/ 270L water/ acre 5-Carbicorn 100 EC @ 120 L/ 270 L water acre	1- Gusathion 20-M @ 0.5 L/ acre 2-Sevin Dust10-D @ 5kg/acre (2-3 time repetation with 15 days interval) 3-Thiodon 35-EC @ 300 ml/ 240L water/ acre 4-Ripcord @ 120L/270L water/acre (2-3 times, 15 days interval)

IWM	Weeds	Bathu (Chenopodium album)	IRRI (Convolvulus arvensis)	Niladari	Datura	Senji	Khutkurla	Chalvera (Amaranthus viridis)
	Weedicides	Hoeing: a light hoeing when plants are established. Subsequent hoeing with interval of 15-20 days interval						

Disease Management	Disease	Damping off	Black Shank	Frog eye leaf spot	Powdery mildew	Tobacco Mosaic	Leaf curl
	Diseas e symptoms	Rotening of stem near earth surface	Black Strips on the stem spread to roots, wilting of plants	brown spots on leaves	grey-whitish spots on the center of leaves, crop appear to burnt by fire	colorless veins on new leaves/ dark green bruises like spots on leaves, bad shaped and small leaves	attack after 4-6 months of transplant, curling of leaves downward, veins dark green and swelled
	Disease Control	prepare beds of 15-45 cm height, Bordeaux mixture/Blitox spray	Bordeaux mixture spray after 15 days of transplant	Perenox spray (3 weeks interval)	baytan foli ax 250 EC	Resistant varieties	Discard host plants of white fly
Harvesting Time		After mid of May					