PRODUCTION TECHNOLOGY FOR IMPROVED FLAVOR BURLEY TOBACCO CY 2015-2016

TECHNOLOGY COMPONENT	DETAILS							
		Bacterial Wilt	RKN	Black Shank	Fusarium Wilt	TMV/CMV		
1. Variety	TN 90	S	S	MT	S	R		
•	CC812G	HR	S	R	MR	S		
	NC 7	S	HR	R	HR	R		
	KT 206	S	S	HR	S	R		
		hly resistant; R- resis	tant; MR- mo	derately resistar	nt; MT- moderate	ly tolerant; S- susceptible		
2. Sowing Date	November 30							
3. Transplanting Cut- off Da	ate January 15							
1. Transplanting Method	Ridge in low lyi	ng areas; all the rest,	in furrow					
5. Distance of Planting	1.0-1.1 m x 0.3	8- 0.45 m						
6. Number of Plants/ha	22,200 - 24,00	0						
7. Replanting	Within 5 days a	after planting (DAT)						
8. Fertilizer Rate	ULPI	236-108-194						
(kg N-P ₂ O ₅ -K ₂ O/ha)	TMI	228-108-194						
	PMFTC	176-148-169						
9. Fertilizer Source &	Quantity	Rate & Source		Method	and Time			
Time and Method	ULPI							
of Application	12 bags	10-18-24	hand applic	ation along plant	ing furrows than	cover with ridge 0 DAT		
	2 bags	0-0-50		٠.		cover with huge o DAT		
	4 bags			tion at 10-14 DA		_		
	6 bags				ing at 25-28 DAT			
	2 bags	21-0-0	fertigationat :	35 DA I				
	ТМІ							
	12 bags	10-18-24	band applica	tion along plantir	g furrows, then co	over with ridge 0 DAT		
	2 bags	0-0-50	band applica	tion at 16-18 DA	Ť	<u> </u>		
	8 bags			tion at 16-18 DA				
	8 bags	21-0-0	band applica	tion after off-barr	ing at 28-32 DAT	-		

TECHNOLOGY COMPONENT	DETAILS												
	PMFTC 12 bags 4 bags 4 bags	10-18-24 46-0-0 21-0-0	band application band application band application	n at 15-18 DA	Ť	cover with ridge (0 DAT						
10. Irrigation Method and Schedule		nting at 3 li per pla 3 li per plant in tim											
Time of Application will follow the sidedress schedule	2nd at 25-28 D 3rd at 35 DAT 4th and suceed	AT, after first fertil AT, after the seco , after third fertilize ling irrigation will f harvesting is by p	nd fertilizer sided er sidedress, alte be as needed de	ress, alternate rnate furrows pending on so	e furrows oil moisture and			very					
11. Crop Protection Agents Fungicide	NOTE: THE FARMERS ARE ENCOURAGED TO APPLY CPAs ONLY AS NEEDED. To avoid CPA residues on tobacco, reduce farmers' exposure to CPAs, and, prevent insect resistance development, spray only when the insect or population is beyond ETL.												
		INSECT CUTWORM BUDWORM APHIDS	5 out of 100 plan	ae in 4 rando	ecent cutworm m sample grou	ips of 10 plants e leaf	each						
	NOTE: REFER 1	LOOPERS Treat when 10 % or more of the plants checked are infested with live worms of any size. LEAF MINERS KATYDID Treat when 5 katydids are seen per 50 plants. NOTE: REFER TO ANNEX "H" FOR THE SAFE USE AND MANAGEMENT OF CROP PROTECTION AGENTS (CPAs)											
	GROWTH STAGE	ACTIVE INGREDIENT	BRAND NAME	TOXICITY CATEGORY	MODE OF ACTION	TARGET PESTS	DOSAGE PER 16 L	PRODUCT	NO. OF	Maximum Tankload/(L for seedbed) per ha	PRE- HARVEST INTERVAL (days)	RE-ENTRY PERIOD (hours)	
		Propamocarb HCI	Proplant, Previcur-	IV	systemic	Pythium spp							
	Seedling	Acephate	Blackhawk	III	contact, systemic,	, yanam opp	30ml	57ml		1-2 liter/10		24	
			Compete 75 SP		systemic	cutworm	20g	37.5g		sqm bed	3	24	

DETAILS												
GROWTH STAGE	ACTIVE INGREDIENT	BRAND NAME	TOXICITY CATEGORY	MODE OF ACTION	TARGET PESTS	DOSAGE PER 16 L	PRODUCT VOLUME	NO. OF Sprayings	Maximum Tankload/(L for seedbed) per ha	PRE- HARVEST INTERVAL (days)	RE-ENTI PERIOI (hours)	
	Acephate	Blackhawk	III	contact, systemic,	cutworm, budworm,loopers	30ml	120ml	1	4		24	
		Compete 75 SP		systemic	cutworm, budworm,loopers	20g	80g	1	4	3	24	
,	Chlorantraniliprole	Prevathon 5 SC	IV	systemic	cutworm, budworm,loopers	25ml	140ml	1	7	3	12	
Early Maturity (35 - 50 DAT)	Bt + Pyridalyl	Dipel + Pleo	IV	systemic	cutworm, budworm, loopers	30g+20ml	330g+220ml	1	11			
c		Compete 75 SP	III	systemic	cutworm, budworm,loopers, aphids	20g	220g	1	11	3	24	
		Blackhawk	III	contact, systemic, stomach	aphids	30 ml	330 ml		11		24	
0	R Flubendiamide	Fenos 480 SC	IV	systemic	cutworm, budworm	4ml	50-75ml	1	13-19	5	24	
Maturity (60 DAT) until the third or	Bt + Pyridalyl	Dipel + Pleo	IV	systemic	cutworm, budworm,loopers	30g+20ml	360g+240ml	1	12			
depending on inser		Steward 30 WDG	III	contact, stomach, ovicidal	cutworm, budworm,loopers, leaf miners	4g sachet	40g=10 sachet	1	10	7	12	
							Total Tar	ıkloads	48-56			
"TOPPING before full bloom and field sanitation are important IPM strategies that can sustainably reduce insect infestation on tobacco". ULPI 18 - 22 leaves when 30% of the total population is at button stage												
PMFTC					-							
FLUMEX 3 liters per ha Dilution rate: 1.25 ml Flumex to 98.75 ml water or 12.5ml/liter Apply 10-15 ml solution per plant within 24 hours after topping												
	Vegetative (10 - 34 DAT) Early Maturity (35 50 DAT) O Maturity (60 DAT) until the third or fourth harvest depending on inse population and crostand "TOPPING be" ULPI PMFTC	Vegetative (10 - 34 DAT) Acephate Chlorantraniliprole Early Maturity (35 – Bt + Pyridalyl 50 DAT) OR Acephate OR Flubendiamide Maturity (60 DAT) until the third or fourth harvest depending on insect population and crop stand "TOPPING before full bloom are the population of the population and crop stand the population and crop	Vegetative (10 - 34 DAT) Acephate Compete 75 SP Chlorantraniliprole Prevathon 5 SC Early Maturity (35 – Bt + Pyridalyl Dipel + Pleo Dipel + Ple	Vegetative (10 - 34 DAT) Acephate Blackhawk III	GROWTH STAGE ACTIVE INGREDIENT BRAND NAME CATEGORY Acephate Compete 75 SP Chlorantraniliprole Prevathon 5 SC IV systemic Systemic Compete 75 SP Blackhawk Compete 75 SP III systemic Contact, systemic Systemic Systemic Chlorantraniliprole Prevathon 5 SC IV systemic Compete 75 SP Blackhawk III systemic Compete 75 SP III systemic Contact, systemic Acephate Compete 75 SP III systemic Contact, systemic Flubendiamide Fenos 480 SC IV systemic Maturity (60 DAT) until the third or fourth harvest depending on insect population and crop stand TOPPING before full bloom and field sanitation are important IPM stratege ULPI 18 - 22 leaves when 30% of the total population is at button stage FLUMEX 3 liters per ha Dilution rate: 1.25 ml Flumex to 98.75 ml water or 12.5ml/liter	GROWTH STAGE ACTIVE INGREDIENT Acephate Compete 75 SP Chlorantraniliprole Prevathon 5 SC IV systemic Cutworm, budworm, loopers aphids cutworm, systemic cutworm, budworm, loopers aphids cutworm, loopers aphids cutworm, budworm, loopers aphids cutworm, budworm, loopers aphids cutworm, budworm, loopers aphids cutworm, budworm budworm budworm budworm budworm cutworm, budworm budworm budworm budworm budworm budworm budworm budworm cutworm, budworm budworm budworm budworm, loopers aphids cutworm, budworm budworm budworm budworm budworm budworm budworm, loopers aphids cutworm, budworm budworm budworm budworm budworm budworm, loopers aphids cutworm, budworm budworm budworm budworm budworm budworm budworm, loopers aphids cutworm, budworm budworm budworm budworm budworm budworm budworm, loopers aphids cutworm, budworm budworm budworm budworm budworm budworm budworm budworm, loopers aphids cutworm, budworm budwor	GROWTH STAGE ACTIVE INGREDIENT BRAND NAME CATEGORY ACTION CATEGORY ACTION CONTROL Systemic Contact, systemic budworm, loopers outworm, budworm, loopers, aphids Compete 75 SP BI Systemic cutworm, budworm, loopers, aphids outworm, loopers, aphids outworm, loopers, systemic, budworm, loopers, aphids outworm, loopers, systemic, budworm, loopers, aphids outworm, loopers, systemic budworm, loopers, aphids outworm, loopers, loopers, loopers, loopers, aphids outworm, loopers, loopers, aphids outworm, loopers, loopers, loopers, aphids outworm, loopers, loopers, aphids outworm, loopers, loop	GROWTH STAGE ACTIVE INGREDIENT BRAND NAME CATEGORY ACTION Contact, systemic cutworm, budworm.loopers 30g+20ml 330g+220ml cutworm, budworm.loopers, 30g+20ml 330g+220ml cutworm, budworm.loopers, 20g apilds cutworm, budworm.loopers, 20g apilds cutworm, budworm.loopers, 30ml apilds cutworm, budworm.loopers,	GROWTH STAGE ACTIVE INGREDIENT BRAND NAME CATEGORY ACTION CATEGORY ACTION CATEGORY ACTION CATEGORY ACTION CONTACT, CATEGORY Systemic Coulworm, budworm, loopers budworm, loopers,	GROWTH STAGE ACTIVE INGREDIENT ACTION REPAND NAME ACEPHATE BRAND NAME CATEGORY ACTION CATEGORY ACTION ACTION ACTION ACTION TARGET PESTS DOSAGE PER 16 L VOLUME Sprayings Tankoad/IL Spraying	CROWTH STAGE ACTIVE INGREDIENT BRAND NAME TOXICITY CATEGORY ACTION TARGET PESTS DOSAGE PRODUCT NO. OF Toxical(IL) PRE-HARVEST For seedbed) INTERVAL (days)	

TECHNOLOGY COMPONENT	DETAILS						
Priming	For Priming, start at 55-60 DAT, then at 7-10 days interval thereafter. PMFTC: For Stalk Cut Tobacco: Prime twice with 2-3 mature leaves at 60-70 DAT; stalk cut at 84-90 DAT. For Priming, start at 60-65 DAT, then at 7-10 days interval thereafter. Important: Haul leaves/stalk immediately after harvest and unload under the shade, using cheese cloth, bamboo slats C4 carton and "silag" buri as matting material. File the leaves upright with the butt ends down; hang the stalk immediately inside the barn Sort, stick, and hang the leaves inside the curing shed within the day.						
15. Air-Curing Barn Dimension (for 0.17 ha farm)	Dimension: (6 of this size is needed for 1 ha) Floor						
Barn Fixture	Psychrometer to monitor relative humidity and temperature inside the barn/shed.						
16. Air Curing	Hang stalks at 25 cm apart for good air circulation inside the barn. Maintain 65%-70% relative humidity (RH) inside the barn particularly during yellowing to lamina drying by closing or opening its sidings: higher than 70%, open sidings; lower than 65%, close the sidings.						
17. Stripping, Sorting & Classification	When midribs leaves fully dried, strip and classify according to : Leaf position Color Length Injury/damage NOTE: NO PREWILTING and SUNDRYING						

TECHNOLOGY COMPONENT	DETAILS
18. Straight Laid Open Bale	Size of Bale Box :
(SLOB) System	Size varies according to the requirement of the company in relation to the size of their grading ramp but the weight should not be more than 50 kg. Pre classify the leaves by leaf position. Place 4 pieces of abaca twine inside the baling box just enough tie the leaves in the box. Put leaves of similar size and quality in a bale. Tie leaves before removing the bale box. REMINDER: KEEP THE MOISTURE CONTENT OF THE LEAVES AT 18% OR LESS
	REFER TO ANNEX "I" FOR THE ELIMINATION OF NON-TOBACCO RELATED MATERIALS (NTRM)