IMPHAL, MONDAY, FEBRUARY 20, 2017 egiFyskq, WkTjlExg 24 eg wkEq, akmg\k sbAKgi 3414 obT\lE mkEwkB HUEIYEN LANPAO

2 ꯂꯧꯎꯁꯤꯡꯎꯒꯤ ꯀꯥꯈꯜ
ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎꯂꯧꯎ ꯁꯤꯡꯎꯒꯤ ꯋꯥꯍꯪ ꯄꯥꯎꯈꯨꯝ
1. ꯍꯋꯥꯏ ꯊꯥꯔꯕꯗꯤ ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎ ꯀꯥꯍꯜꯂꯤ
ꯍꯥꯏꯅꯕꯗꯨꯗ ꯆꯍꯤ ꯈꯨꯗꯤꯡꯒꯤ ꯍꯋꯥꯏ ꯊꯥꯖꯩ꯫ ꯀꯨꯝꯁꯤꯁꯨ ꯃꯈꯌꯥꯠ
ꯃꯨꯕꯤ ꯑꯃꯁꯨ ꯃꯀꯨ ꯆꯥꯕꯤ ꯍꯋꯥꯏ ꯊꯔꯥꯛ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯊꯥꯏ꯫ ꯑꯗꯨꯕ
ꯀꯣꯜꯍꯤꯡ ꯀꯥꯕꯤ ꯂꯥꯏꯅꯥ ꯇꯥꯕ ꯍꯧꯔꯛꯄꯁꯤꯗ ꯌꯥꯝꯅ ꯇꯟꯊꯕ ꯐꯥꯎꯏ꯫

ꯃꯁꯤꯕꯨ ꯀꯔꯤ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯂꯒ ꯐꯒꯗꯒꯦ? ꯊꯥꯕꯗ ꯁꯣꯏꯈꯤꯕ
ꯀꯔꯤ ꯌꯥꯎꯕꯅꯣ ꯈꯪꯗ꯭ꯔꯦ꯫ ꯐꯅꯕ ꯍꯤꯗꯥꯛ ꯈꯪꯖꯅꯤꯡꯏ꯫

- ꯑꯦꯟ ꯕ꯭ꯔꯖꯤꯀꯁꯣꯔ ꯁꯤꯡ, ꯍꯩꯔꯣꯛ ꯄꯥꯔꯠ ꯇꯨ
ꯖ ꯍꯋꯥꯏ ꯊꯔꯥꯛꯇ ꯇꯥꯔꯤꯕ ꯀꯣꯜꯂꯤꯡ ꯀꯥꯕꯤ ꯂꯥꯏꯅꯥ ꯐꯕ
ꯉꯝꯗꯦ꯫ ꯂꯥꯏꯅꯥ ꯈꯔ ꯂꯥꯛꯁꯤꯟꯅꯕ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯅꯕꯒꯤ ꯋꯥꯅꯤ꯫

ꯌꯥꯝꯟ ꯐꯕ ꯍꯤꯗꯥꯛ Calixin ꯃꯇꯝ ꯑꯃꯗ ꯁꯤꯖꯤꯟꯅꯔꯝꯃꯤ꯫

ZKgrg WIrDjl! Mancozeb 75% WP xDjkA 30
ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯄ ꯌꯥꯏ꯫ ꯅꯠꯇ꯭ꯔꯒ

Propiconazole 25% ꯃꯤꯂꯤꯂꯤꯇꯔ 15 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15
ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯄꯁꯨ ꯌꯥꯏ꯫ ꯑꯗꯨꯕꯨ ꯄꯥꯝꯂꯤꯕ/ ꯐꯪꯅꯤꯡꯂꯤꯕ
ꯀꯥꯟꯅꯕꯒꯤ ꯆꯥꯡꯗꯨꯗꯤ ꯌꯧꯕ ꯉꯝꯗꯦ꯫ ꯌꯥꯝꯅ ꯐꯕ ꯊꯧꯔꯝ ꯑꯃ ꯑꯣꯏꯅ
ꯍꯋꯥꯏ ꯍꯦꯛꯄꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯕ ꯃꯇꯝꯁꯤ ꯑꯨꯛꯀꯅꯤ꯫ ꯑꯌ
ꯨꯛꯇ ꯍꯦꯛꯄ ꯍꯋꯥꯏ ꯈꯔ ꯀꯨꯏꯊꯅ ꯊꯝꯕ ꯌꯥꯏ꯫ ꯃꯗꯨꯒꯤ ꯃꯊꯛꯇ
ꯀꯣꯄꯛꯥꯏ ꯃꯔꯨ ꯁꯟꯗꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯩ꯫

2. ꯑꯩꯒꯤ ꯍꯩꯅꯧ ꯄꯥꯝꯕꯤ 150 ꯃꯨꯛ ꯍꯧꯏ꯫ ꯌꯥꯡꯈꯩꯃꯨꯛꯇꯤ ꯄꯥꯟꯕ
ꯍꯧꯔꯦ꯫ ꯍꯧꯈꯤꯕ ꯆꯍꯤꯗ ꯍꯩꯅꯧ ꯆꯦꯛꯈꯥꯏꯕ ꯌꯥꯝꯅ ꯌꯥꯎꯈꯤ꯫ ꯍꯧꯖꯤꯛ
ꯃꯄꯥꯜ ꯁꯥꯕ ꯍꯧꯔꯛꯄ ꯃꯇꯝꯁꯤꯗ ꯆꯦꯛꯈꯥꯏꯗꯅꯕ ꯀꯔꯤ ꯍꯤꯗꯥꯛ
ꯀꯥꯞꯍꯧꯒꯗꯒꯦ꯫ ꯍꯛꯆꯥꯡ ꯁꯣꯛꯂꯣꯏꯗꯕ, ꯀꯥꯞꯂꯤꯉꯩ ꯃꯇꯝꯗ
ꯏꯁꯥꯗ ꯈꯔ ꯆꯣꯡꯈꯤꯕꯗꯁꯨ ꯁꯣꯛꯂꯣꯏꯗꯕ ꯑꯃ ꯍꯥꯏꯕꯤꯌꯨ꯫

-ꯀꯔꯥꯝ ꯅꯣꯕꯣ ꯁꯤꯡꯍ, ꯂꯥꯡꯒꯣꯜ
ꯖ ꯍꯩꯅꯧ ꯄꯥꯟꯕ ꯍꯧꯔꯕ ꯃꯇꯨꯡꯗ Nitro ꯨꯍꯗꯃꯒ
ꯃꯤꯂꯤꯂꯤꯇꯔ 15 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ
ꯄꯥꯝꯕꯤ ꯃꯁꯥ ꯄꯨꯝꯕ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯊꯣꯛꯁꯤ꯫ ꯅꯨꯃꯤꯠ 15-20
ꯀꯥꯟꯅꯔꯒ ꯑꯅꯤꯁꯨꯕ ꯑꯣꯏꯅ ꯑꯃꯨꯛ ꯍꯟꯅ ꯀꯥꯞꯊꯣꯛꯁꯤ꯫

ꯍꯩꯅꯧ ꯆꯦꯛꯈꯥꯏꯕ ꯑꯃꯁꯨꯡ ꯍꯩꯅꯧ ꯃꯇꯣꯟ ꯄꯨꯝꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ
ꯍꯟꯊꯔꯒꯅꯤ꯫

3. ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎꯒꯤ ‘ꯂꯧꯃꯤꯁꯤꯡꯒꯤ ꯀꯥꯈꯜ’ ꯆꯥꯡ
ꯅꯥꯏꯅ ꯄꯥꯖꯩ꯫ ꯑꯗꯨꯕꯨ ꯂꯩ ꯊꯥꯕ ꯑꯃꯁꯨꯡ ꯂꯩ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯒꯝꯂꯥꯗ ꯊꯥꯒꯔ
ꯌꯣꯟꯕꯅꯆꯤꯡꯕ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯍꯤꯔꯝ ꯑꯃꯠꯇ
ꯎꯖꯗꯦ꯫ ꯂꯩ ꯊꯥꯕꯁꯤ ꯂꯧꯃꯤꯁꯤꯡꯒꯤ ꯑꯣꯏꯗꯕ꯭ꯔ? ꯌꯥꯔꯒꯗꯤ
ꯍꯤꯔꯝꯁꯤꯡ ꯑꯁꯤꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯋꯥꯐꯝꯁꯤꯡꯁꯨ ꯊꯝꯕꯤꯌꯨ꯫

-ꯅꯟꯗꯦꯁꯣꯔꯤ ꯆꯤꯡꯊꯥꯝ, ꯋꯥꯡꯈꯩ
ꯖ ꯊꯥꯒꯠꯆꯔꯤ꯫ ꯃꯊꯪꯒꯤ ꯆꯌꯣꯜꯗꯒꯤ ꯍꯤꯔꯝꯁꯤꯃꯁꯨ
ꯍꯥꯞꯆꯤꯟꯅꯕ ꯍꯣꯠꯅꯖꯒꯦ꯫ ꯂꯩ ꯊꯥꯕꯁꯤꯁꯨ ꯂꯧꯃꯤꯁꯤꯡꯒꯤ
ꯑꯣꯏꯔꯕꯅꯤ꯫ ꯑꯆꯧꯕ ꯁꯦꯟꯗꯥꯜ ꯂꯝꯕꯤ ꯑꯃ ꯑꯣꯏꯅ ꯂꯩ ꯊꯥꯕ ꯌꯥꯏ꯫

4. ꯃꯥꯏꯔꯦꯜ, ꯇꯔꯕꯨꯖꯅꯆꯤꯡꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯤ ꯆꯥꯔꯥꯁꯤꯡ
ꯁꯦꯝꯃꯒ ꯂꯩꯔꯤꯕꯁꯤ ꯂꯤꯡꯊꯣꯛꯅꯕ ꯁꯦꯝ ꯁꯥꯔꯕ ꯃꯇꯝꯁꯤꯗ
ꯄꯥꯝꯕꯤꯁꯤꯡ ꯈꯨꯏꯊꯕ, ꯇꯨꯕꯥ ꯌꯥꯎꯔꯦ ꯃꯁꯤꯕꯨ ꯂꯤꯡꯊꯣꯛꯄ \

ꯥꯈꯤꯒꯗ꯭ꯔ?꯫

- ꯑꯦꯝ ꯁꯥꯟꯇꯤ, ꯀꯥꯏꯔꯦꯝꯕꯤꯈꯣꯛ
ꯖ ꯑꯁꯣꯛꯄꯁꯤꯡꯗꯨꯗꯤ ꯂꯤꯡꯊꯣꯛꯂꯔꯣꯏꯁꯤ꯫ ꯆꯥꯔꯥꯁꯤꯡꯗꯨ
ꯂꯤꯡꯊꯣꯛꯇ꯭ꯔꯤꯉꯩꯗ Taqat ꯒ꯭ꯔꯥꯝ 25 ꯏꯁꯤꯡ ꯂꯤꯇꯥ 15
ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯃꯄꯨꯡ ꯐꯥꯅ ꯀꯥꯞꯊꯣꯛꯍꯧꯁꯤ꯫ ꯆꯥꯔ ꯈꯨꯗꯤꯡꯒꯤ
ꯃꯈꯣꯡ ꯆꯣꯡꯍꯟꯁꯤ꯫ ꯆꯌꯣꯜ ꯑꯃꯒꯤ ꯃꯇꯝ ꯂꯧꯈꯤꯁꯤ꯫ ꯃꯈꯥ ꯇꯥꯅ
ꯈꯨꯏꯊꯔꯛꯇ꯭ꯔꯕ ꯄꯥꯝꯕꯤꯇꯃꯛ ꯂꯤꯡꯊꯣꯛꯁꯤ꯫

ꯄꯥꯎꯈꯨꯝ ꯄꯤꯕꯤꯔꯤꯕ:

ꯗꯥ ꯑꯦꯝ FOTFOT ꯁꯤꯡꯍ
ꯑꯦꯒ꯭ꯔꯤꯀꯜꯆꯔꯦꯜ ꯁꯦꯛꯁꯟ- ꯍꯨꯏꯌꯦꯜ ꯂꯥꯟꯄꯥꯎ

{ꯐꯥꯔꯃꯔꯁꯤꯡꯅ ꯂꯧꯎ-ꯁꯤꯡꯎꯒ ꯃꯔꯤ ꯂꯩꯅꯅ, ꯉꯥ, ꯁꯥ-ꯁꯟ
ꯌꯣꯛꯄꯅꯆꯤꯡꯕꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯆꯤꯊꯤ ꯏꯔꯒ
ꯊꯥꯕꯤꯔꯛꯎ꯫}

ꯆꯤꯊꯤ ꯊꯥꯔꯛꯐꯝ: ꯑꯦꯚ꯭ꯔꯤꯀꯜꯆꯔꯦꯜ ꯁꯦꯛꯁꯟ- ꯍꯨꯏꯌꯦꯟ
ꯂꯥꯟꯄꯥꯎ ꯁꯦꯒꯥ ꯔꯣꯗ ꯊꯧꯗꯥ ꯚꯥꯕꯣꯛ ꯂꯩꯀꯥꯏ
ꯏꯝꯐꯥꯜ, 795001
ꯅꯠꯇ꯭ꯔꯒ
ꯃꯣꯕꯥꯏꯜ ꯅꯝꯕꯔ 9856282339 ꯗ WOE ꯇꯧꯕꯤꯔꯛꯇꯨꯅ
ꯑꯗꯣꯝꯅ ꯂꯧꯎ ꯁꯤꯡꯎ, ꯁꯥ -ꯁꯟꯒ ꯃꯔꯤ ꯂꯩꯅꯕꯁꯤꯡꯒꯤ
ꯃꯇꯥꯡꯗ ꯈꯪꯕꯤꯅꯤꯡꯕꯁꯤꯡ ꯍꯪꯕꯤꯔꯛꯎ꯫

...ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ...

ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯍꯟꯗꯛ ꯄꯥꯡꯊꯣꯛꯀꯗꯧꯔꯤꯕ 11
ꯁꯨꯕ ꯖꯦꯅꯔꯦꯜ ꯏꯂꯦꯛꯁꯟꯗ ꯃꯅꯤꯄꯨꯔꯒꯤ
ꯑꯣꯏꯅꯗꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯑꯀꯟꯕ ꯃꯑꯣꯡꯗ
ꯂꯝꯕꯥ ꯇꯧꯅꯒꯗꯧꯔꯤꯕ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ
ꯄꯥꯔꯇꯤꯁꯤ ꯀꯣꯡꯒ꯭ꯔꯦꯁ ꯑꯃꯁꯨꯡ ꯕꯤ ꯖꯦ
ꯄꯤ ꯑꯅꯤꯒꯤ ꯃꯔꯛꯇꯅꯤ ꯍꯥꯏꯕꯁꯤ ꯃꯤꯌ
ꯥꯝꯅ ꯈꯪꯅꯔꯦ, ꯎꯅꯔꯦ, ꯇꯥꯅꯔꯦ꯫ ꯕꯤ ꯖꯦ
ꯄꯤꯅ ꯁꯤꯠ 60 ꯗ ꯃꯤꯔꯦꯞ ꯊꯥꯒꯠꯈ꯭ꯔꯦ꯫

ꯑꯗꯨꯒ ꯀꯣꯡꯒ꯭ꯔꯦꯁꯅ ꯁꯤꯠ 58 ꯗ ꯂꯩꯔꯦ꯫

ꯑꯃꯅ ꯇꯤꯀꯦꯠ ꯂꯥꯎꯊꯣꯛꯨꯔꯒ ꯌꯥꯅꯤ \

ꯥꯔꯣꯏ ꯍꯥꯏꯕꯗꯒꯤ ꯇꯣꯛꯈ꯭ꯔꯦ ꯑꯗꯨꯒ ꯑꯃꯅ
ꯇꯤꯀꯦꯠ ꯂꯥꯎꯊꯣꯛꯎꯔꯒ ꯌꯥꯅꯤꯡꯗꯕꯗꯒꯤ
ꯇꯣꯛꯈ꯭ꯔꯦ
ꯍꯧꯖꯤꯛ ꯚꯣꯠ ꯃꯌꯥ ꯅꯛꯁꯤꯜꯂꯛꯄꯒ
ꯂꯣꯏꯅ ꯃꯐꯝ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯏꯔꯥꯡ
ꯀꯟꯈꯠꯅꯔꯛꯂꯤ꯫ ꯆꯤꯟꯒ ꯆꯤꯟꯒ
ꯂꯥꯎꯅꯔꯛꯝꯕꯗꯒꯤ ꯈꯨꯠ ꯈꯣꯡ ꯌꯥꯎꯅꯔꯛꯇꯨꯅ
ꯁꯣꯛꯅꯕ ꯌꯥꯎꯅꯔꯛꯂꯦ꯫ ꯃꯁꯤꯅ
ꯇꯥꯛꯂꯤꯕꯗꯤ ꯍꯥꯏꯄꯔ ꯁꯦꯟꯁꯤꯇꯤꯚ
ꯑꯣꯏ꯫ ꯄꯥꯔꯇꯤ ꯑꯅꯤꯃꯛ ꯅꯦꯁꯅꯦꯜꯒꯤ
ꯊꯥꯛꯇ ꯂꯩꯕ ꯉꯥꯛꯇꯅꯤ꯫ ꯑꯃꯅ ꯃꯇꯝ ꯀꯨꯏꯅ
ꯂꯩꯉꯥꯛ ꯄꯥꯏꯔꯝꯂꯕ ꯑꯗꯨꯒ ꯑꯃꯅ ꯍꯧꯖꯤꯛ
ꯍꯧꯖꯤꯛ ꯂꯩꯉꯥꯛ ꯄꯥꯏꯔꯤꯕꯅꯤ꯫ ꯑꯅꯤꯃꯛ
ꯑꯃꯅ ꯑꯃꯗꯒꯤ ꯆꯣꯡꯊꯣꯛ ꯆꯣꯡꯁꯤꯟ
ꯂꯦꯞꯅꯗ꯭ꯔꯤ꯫ ꯃꯈꯣꯏ ꯃꯈꯣꯏꯅ ꯌꯥꯎꯔꯝꯕ
ꯄꯥꯔꯇꯤ ꯑꯗꯨ ꯃꯈꯣꯏ ꯑꯇꯣꯞꯄꯗ
ꯆꯣꯡꯈ꯭ꯔꯕ ꯃꯇꯨꯡꯗ ꯑꯃꯨꯛ ꯍꯟꯅ ꯍꯨꯟꯗꯨꯅ
ꯉꯥꯡꯅꯔꯤ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤꯕꯨ ꯇꯥꯔꯤꯕ
ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝ ꯑꯩꯈꯣꯏ ꯏꯁꯥ ꯏꯁꯥꯅ ꯋꯥꯈꯜ
ꯇꯥꯕ ꯃꯇꯝ ꯌꯧꯔꯦ꯫ ꯚꯣꯠ ꯍꯥꯏꯕꯁꯤꯗꯤ
ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯒꯤ ꯈꯨꯠꯇ ꯂꯩꯕꯅꯤ꯫

ꯑꯔꯣꯏꯕꯗ ꯊꯝꯖꯅꯤꯡꯕꯗꯤ
ꯀꯣꯡꯒ꯭ꯔꯦꯁ ꯑꯣꯏꯒꯦꯔ, ꯕꯤ ꯖꯦ ꯄꯤ
ꯑꯣꯏꯒꯦꯔ ꯂꯩꯉꯥꯛ ꯄꯥꯏꯔꯤꯕꯗꯨ ꯃꯤꯆꯝ ꯃꯤꯌ
ꯥꯝꯒꯤꯗꯃꯛꯇꯅꯤ꯫ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ ꯄꯥꯝꯕ
ꯊꯕꯛ ꯇꯧꯗꯨꯅ ꯅꯨꯡꯁꯤ ꯆꯥꯟꯅꯅ ꯂꯩꯃꯤꯟꯅꯕ
ꯁꯤꯟꯒꯗꯕꯅꯤ꯫ ꯂꯝꯕꯤ ꯊꯣꯡ, ꯊꯛꯅꯕ
ꯏꯁꯤꯡ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯐꯪꯍꯟꯕ, ꯅꯣꯡꯃꯒꯤ
ꯇꯉꯥꯏꯐꯗ꯭ꯔꯕ ꯄꯣꯠꯂꯝ ꯅꯤꯡꯊꯤꯅ ꯐꯪꯍꯟꯕ,
ꯕꯟꯗ ꯕ꯭ꯂꯣꯀꯦꯗ ꯂꯩꯇꯕ ꯃꯅꯤꯄꯨꯔ ꯑꯃ
ꯑꯣꯏꯍꯟꯕ, ꯁꯦꯟꯖꯥ ꯊꯨꯝꯖꯥ ꯂꯩꯇꯕ ꯆꯥꯎꯈꯠꯄ
ꯃꯅꯤꯄꯨꯔ ꯑꯃ ꯑꯣꯏꯍꯟꯕ ꯉꯝꯕꯗꯨꯅꯤ
ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ ꯄꯥꯝꯂꯤꯕ ꯂꯩꯉꯥꯛ꯫

ꯑꯗꯣꯝꯒꯤ- ꯊꯣꯛꯆꯣꯝ ꯊꯝꯕꯥꯜꯑꯉꯧ
ꯁꯤꯡꯍ, ꯈꯥꯉꯕꯣꯛ ꯃꯌꯥꯏ ꯂꯩꯀꯥꯏ꯫
ꯀꯣꯡꯒ꯭ꯔꯦꯁ ꯚꯔꯁꯦꯁ ꯕꯤ ꯖꯦ ꯄꯤ
10 = ꯏꯃꯗꯃ
(Amada Phun)
ꯔꯥꯏꯠ ꯇꯨ ꯑꯦꯗꯨꯀꯦꯁꯟ
ꯂꯥꯏꯔꯤꯛ ꯈꯥꯎꯗ ꯑꯔꯨꯕ ꯄꯣꯠ ꯍꯥꯞꯂꯒ ꯄꯨꯍꯟꯕ ꯊꯤꯡꯁꯤ
ꯃꯅꯤꯄꯨꯔꯗ ꯆꯥꯎꯈꯠꯄꯒꯤ ꯃꯉꯥꯜ ꯐꯪꯗ꯭ꯔꯤꯉꯩ ꯉꯁꯤꯗꯒꯤ ꯆꯍꯤ 55 ꯔꯣꯝꯒꯤ ꯃꯃꯥꯡꯗ ꯆꯠꯊꯅꯔꯝꯕ ꯃꯍꯩ ꯃꯁꯤꯟ ꯇꯝꯕꯒꯤ ꯀꯥꯡꯂꯣꯟꯁꯤꯡ ꯉꯁꯤ ꯃꯤꯔꯣꯜꯗ ꯋꯥꯔꯤ ꯑꯣꯏꯅ
ꯂꯤꯕꯗ ꯑꯉꯛꯄ ꯄꯣꯛꯅꯒꯅꯤ꯫ ꯙꯔꯕꯥꯔꯠ ꯑꯃ, ꯃꯄꯤ ꯂꯥꯏꯔꯤꯛ ꯑꯃ , ꯁꯤꯂꯦꯞ ꯑꯃ
ꯑꯃꯁꯨꯡ ꯀꯥꯡꯒꯨ ꯃꯇꯠ ꯑꯃ ꯄꯨꯔꯒ ꯃꯍꯩ ꯇꯝꯕ ꯆꯠꯄ ꯍꯥꯏꯕꯁꯤ ꯂꯥꯏꯔꯕ ꯅꯠꯇ꯭ꯔꯒ
ꯏꯅꯥꯛ ꯈꯨꯟꯕ ꯏꯃꯨꯡꯒꯤ ꯃꯍꯩꯔꯣꯏ ꯈꯨꯗꯤꯡꯃꯛꯅ ꯇꯧꯅꯕ ꯊꯕꯛꯅꯤ꯫ ꯙꯔꯕꯥꯠ ꯑꯃ ꯅꯠꯇ꯭ꯔꯒ
ꯃꯄꯤ ꯂꯥꯏꯔꯤꯛ ꯑꯃ ꯍꯥꯏꯕꯁꯤ ꯍꯧꯖꯤꯛꯀꯤ ꯃꯇꯝꯗꯗꯤ ꯀꯔꯤꯁꯨ ꯂꯩꯇꯅ ꯈꯜꯂꯝꯕ ꯌꯥꯏ꯫

ꯑꯗꯨꯕꯨ ꯃꯇꯝꯗꯨꯗꯗꯤ ꯂꯥꯏꯔꯤꯛ ꯑꯅꯤꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ ꯑꯃꯐꯥꯎꯕ ꯂꯩꯕ ꯉꯝꯗꯗꯨꯅ ꯂꯩꯀꯥꯏꯒꯤ
ꯅꯠꯇ꯭ꯔꯒ ꯏꯃꯨꯡ ꯃꯅꯨꯡꯒꯤ ꯃꯆꯤꯟ ꯃꯅꯥꯎꯁꯤꯡꯅ ꯇꯝꯅꯔꯝꯕ ꯑꯃꯟꯕ ꯂꯥꯏꯔꯤꯛꯇꯨ
ꯁꯤꯖꯤꯟꯅꯔꯒ ꯇꯝꯅꯔꯝꯃꯤ꯫ ꯁꯤꯂꯦꯞ ꯑꯃꯐꯥꯎꯕ ꯂꯩꯕ ꯉꯝꯗꯕꯗꯒꯤ ꯀꯥꯏꯔꯕ ꯃꯆꯦꯠ
ꯃꯄꯥꯛ ꯑꯃ ꯄꯨꯔꯒ ꯃꯍꯩꯁꯡꯗ ꯆꯠꯅꯔꯝꯃꯤ꯫ ꯅꯤꯡꯊꯝꯊꯥꯒꯤ ꯃꯇꯝꯗ ꯈꯣꯡꯎꯞ ꯇꯣꯡꯕꯣꯏ
ꯇꯣꯡꯗꯕꯣꯏ, ꯑꯔꯨꯝꯕ ꯐꯤ ꯔꯣꯜ ꯁꯦꯠꯄꯒꯤ ꯃꯍꯨꯠꯇ ꯐꯤ ꯑꯃ ꯈꯥꯎꯑꯣꯟ ꯑꯣꯜꯒ ꯃꯍꯩꯁꯪꯗ
ꯆꯠꯅꯔꯝꯃꯤ꯫ ꯃꯇꯝꯗꯨ ꯑꯗꯨꯀꯤ ꯃꯇꯤꯛ TIT, ꯍꯧꯖꯤꯛꯤ ꯑꯏꯪꯕꯒ ꯃꯥꯟꯅꯦꯗ꯫ ꯃꯗꯨꯅ ꯃꯔꯝ
ꯑꯣꯏꯔꯒ ꯑꯣꯖꯥꯁꯨ ꯃꯍꯩꯔꯣꯏꯁꯨ ꯕꯣꯔꯣ ꯑꯃꯃꯝ ꯄꯨꯔꯒ ꯃꯍꯩꯁꯪꯒꯤ ꯂꯝꯄꯥꯛꯇ ꯅꯨꯡꯁꯥ \

ꯥꯏꯔꯒ ꯂꯥꯏꯔꯤꯛ ꯇꯥꯛꯄꯁꯨ ꯆꯠꯅꯔꯝꯃꯤ꯫ ꯃꯁꯤꯡꯁꯨꯌꯥꯝꯗꯕ ꯂꯥꯏꯔꯤꯛ ꯈꯔꯗꯨ ꯍꯥꯞꯅꯕ ꯈꯥꯎ
ꯑꯃꯐꯥꯎꯕ ꯂꯩꯕ ꯉꯝꯅꯔꯝꯗꯦ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯃꯍꯩꯔꯣꯏꯁꯤꯡ ꯂꯥꯏꯔꯤꯛ ꯑꯃꯁꯨ ꯁꯤꯂꯦꯞ
ꯑꯗꯨ ꯁꯦꯒꯥꯗ ꯌꯦꯞꯂꯒ ꯅꯠꯇ꯭ꯔꯒ ꯈꯨꯠꯟ ꯄꯥꯏꯔꯒ ꯃꯍꯩꯁꯡꯗ ꯆꯠꯅꯔꯝꯃꯤ꯫ ꯏꯁꯤꯡ
ꯏꯆꯥꯦꯎ ꯅꯠꯇ꯭ꯔꯒ ꯃꯔꯝ ꯑꯃꯅ ꯐꯧ ꯂꯣꯛꯈꯤꯗ꯭ꯔꯕ ꯀꯨꯝ ꯑꯣꯏꯕ ꯃꯇꯝꯗꯗꯤ ꯅꯨꯃꯤꯗꯥꯡ ꯆꯔꯥ
ꯍꯦꯟꯈꯤ ꯍꯥꯏꯕꯒꯤ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯃꯍꯩꯔꯣꯏꯁꯤꯡ ꯑꯗꯨꯅ ꯇꯟ ꯃꯆꯦꯠ ꯑꯃꯃꯝ ꯄꯥꯏꯔꯒ
ꯃꯍꯩꯁꯡꯗ ꯂꯥꯛꯄꯁꯨ ꯎꯈꯤ꯫ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤꯅ ꯇꯥꯛꯂꯤꯕꯗꯤ ꯃꯇꯝꯗꯨꯗ ꯂꯥꯏꯔꯤꯛ
ꯇꯝꯕ ꯍꯥꯏꯕꯁꯤ ꯍꯤꯔꯝ ꯀꯌꯥꯗ ꯈꯨꯗꯣꯡꯆꯥꯗꯕꯅ ꯄꯤꯛ ꯊꯜꯂꯤ꯫ ꯃꯃꯥ ꯃꯄꯥ ꯑꯣꯏꯕꯁꯤꯡꯅ
ꯃꯆꯥꯁꯤꯡꯕꯨ ꯁꯣꯏꯗꯅ ꯃꯍꯩ ꯍꯩꯒꯗꯕꯅꯤ ꯍꯥꯏꯕ ꯑꯆꯦꯠꯄ ꯐꯤꯔꯦꯞ ꯂꯩꯖꯔꯕꯁꯨ ꯂꯩꯇ ꯂꯥꯏꯔꯕꯅ
ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯃꯐꯨꯡ ꯐꯥꯅ ꯃꯍꯩ ꯇꯝꯍꯟꯕ ꯉꯝꯅꯗꯦ꯫ ꯑꯗꯨꯕꯨ ꯍꯧꯖꯤꯛꯀꯤ ꯃꯇꯝꯗꯤ ꯀꯗꯥꯏ,
ꯂꯥꯏꯔꯤꯛꯁꯨ ꯂꯦꯝꯅ, ꯂꯥꯏꯔꯤꯛ ꯈꯥꯎꯁꯨ ꯂꯦꯝꯅ, ꯃꯍꯩꯁꯪꯗ ꯀꯥꯔꯛꯄꯗꯁꯨ ꯃꯤꯗ-ꯗꯦ ꯃꯤꯜ
ꯄꯤꯖꯕ, ꯕꯣꯏ ꯀꯂꯝ ꯐꯥꯎꯕ ꯂꯦꯝꯅ ꯐꯪꯍꯜꯂꯦ꯫ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤꯒꯤ ꯃꯊꯛꯇ ꯔꯥꯏꯠ ꯇꯨ
ꯑꯦꯗꯨꯀꯦꯁꯟ ꯑꯦꯛ ꯆꯠꯅꯈꯤꯕꯗꯒꯤ ꯑꯉꯥꯡ ꯄꯨꯝꯅꯃꯛ ꯃꯍꯩ ꯇꯝꯍꯟꯕ ꯍꯥꯏꯕꯁꯤ ꯑꯉꯥꯡ
ꯑꯗꯨꯒꯤ WIWA ꯊꯣꯛꯄ ꯑꯣꯏꯍꯜꯂꯦ꯫ ꯑꯉꯥꯡꯁꯤꯡꯕꯨ ꯇꯥꯊꯤ ꯇꯥꯑꯣꯏꯅ ꯇꯧꯕ ꯊꯤꯡꯈ꯭ꯔꯦ꯫

ꯃꯈꯣꯏꯒꯤ ꯂꯝ ꯀꯌꯥꯗ ꯌꯦꯡꯁꯤꯟꯅꯕ ꯂꯨꯞ ꯁꯦꯝꯗꯨꯅ ꯌꯥꯏꯐ ꯊꯧꯔꯥꯡ ꯀꯌꯥ ꯄꯥꯏꯈꯠꯂꯦ꯫ ꯏꯝꯐꯥꯜ

TKG ꯑꯃꯁꯨꯡ ꯋꯦꯁꯠꯀ ꯌꯥꯎꯅ ꯇꯝꯄꯥꯛꯀꯤ ꯗꯤꯁꯇ꯭ꯔꯤꯛ ꯃꯔꯤꯗꯗꯤ ꯑꯉꯥꯡ ꯑꯌꯥꯝꯕ
ꯃꯍꯩꯁꯪꯗ ꯆꯠꯅꯕ ꯎꯔꯦ꯫ ꯆꯤꯡꯒꯤ ꯗꯤꯁꯇ꯭ꯔꯤꯛꯁꯤꯡꯗꯁꯨꯆ ꯑꯗꯨꯃꯉꯥꯏ, ꯂꯟꯅꯥꯏ ꯃꯍꯩꯁꯪꯗ
ꯊꯥꯕ ꯉꯝꯗ꯭ꯔꯕꯁꯨ ꯂꯩꯉꯥꯛꯀꯤ ꯃꯍꯩꯁꯪꯗꯗꯤ ꯃꯍꯩ ꯇꯝꯍꯟꯕꯒꯤ ꯀꯥꯟꯅꯕ ꯈꯪꯅꯔꯛꯂꯦ꯫ ꯂꯝꯕꯤ
ꯊꯣꯡꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯗꯕ ꯑꯃꯁꯨꯡ ꯏꯃꯨꯡ ꯃꯅꯨꯡꯒꯤ ꯂꯩꯇ ꯂꯥꯏꯔꯅ ꯃꯇꯝ ꯑꯣꯏꯔꯒ ꯈꯥꯡꯇꯞꯅ
ꯃꯍꯩ ꯇꯝꯕ ꯇꯣꯛꯈꯤꯕꯒꯤ ꯊꯧꯗꯣꯛꯇꯤ ꯍꯧꯖꯤꯛꯁꯨ ꯆꯤꯡ ꯑꯃꯁꯨꯡ ꯇꯝꯗ ꯊꯣꯛꯂꯤ꯫ ꯃꯈꯣꯏꯕꯨ
ꯀꯝꯗꯧꯅ ꯃꯍꯩ ꯇꯝꯍꯟꯒꯗꯒꯦ ꯍꯥꯏꯕꯁꯤ ꯃꯍꯩꯔꯣꯏꯁꯤꯡ ꯑꯗꯨꯒꯤ ꯃꯃꯥ ꯃꯄꯥ ꯅꯠꯇ꯭ꯔꯒ
ꯃꯈꯣꯏꯒꯤ ꯅꯛꯅꯛꯕ ꯃꯔꯤ ꯃꯇꯥꯁꯤꯡꯗ ꯀꯥꯎꯟꯁꯦꯂꯤꯡ ꯄꯤꯕ ꯅꯠꯇꯅ ꯑꯇꯩ ꯄꯥꯝꯕꯩ ꯂꯩꯇꯦ꯫

ꯃꯔꯨꯑꯣꯏꯅ ꯇꯝꯄꯥꯛ ꯂꯝꯗ ꯆꯥꯎꯔꯕ ꯂꯥꯏꯔꯤꯛ ꯈꯥꯎ ꯑꯃꯒꯤ ꯃꯅꯨꯡꯗ ꯂꯨꯝꯂꯕ ꯄꯣꯠ ꯆꯩ ꯀꯌ
ꯥꯃꯔꯨꯝ ꯍꯥꯞꯂꯒ ꯊꯥꯡꯕ ꯉꯝꯕꯣꯏ ꯉꯝꯗꯕꯣꯏ ꯃꯅꯝꯗ ꯄꯣꯗꯨꯅ ꯄꯨꯔꯒ ꯑꯉꯥꯡꯁꯤꯡꯅ ꯃꯍꯩꯁꯪꯗ
ꯂꯥꯛꯍꯜꯂꯤꯕꯁꯤ ꯃꯇꯝꯒ ꯆꯥꯅꯗ꯭ꯔꯦ꯫ ꯔꯥꯏꯠ ꯗꯨ ꯑꯦꯗꯨꯀꯦꯁꯟ ꯑꯦꯛꯀꯤ ꯃꯈꯥꯗꯁꯨ ꯃꯁꯤ \

ꯥꯗꯦ꯫ ꯆꯥꯅꯅꯕ ꯇꯦꯐꯤꯟ, ꯊꯛꯅꯅꯕ ꯏꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯡ ꯌꯥꯝꯂꯕ ꯂꯥꯏꯔꯤꯛꯁꯤꯡ ꯈꯥꯎ
ꯑꯃꯗ ꯍꯥꯞꯂꯒ ꯁ꯭ꯀꯨꯜꯗ ꯂꯥꯛꯂꯤꯕꯗꯨ ꯃꯔꯨꯑꯣꯏꯅ ꯁ꯭ꯀꯨꯜ ꯑꯣꯊꯣꯔꯤꯇꯤꯅ ꯊꯣꯛꯍꯟꯕꯅꯤ꯫

ꯍꯧꯖꯤꯛꯇꯤ ꯆꯥꯎꯈꯠꯂꯛꯄꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ ꯁꯕꯦꯖꯛ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯂꯥꯏꯔꯤꯛ ꯃꯍꯩꯁꯡꯗ
ꯑꯉꯥꯡ ꯑꯗꯨꯅ ꯄꯨꯗ꯭ꯔꯕꯁꯨ ꯇꯧꯕ ꯌꯥꯕ ꯌꯥꯝꯅ ꯂꯩꯔꯦ꯫ ꯁꯕꯖꯦꯛ ꯈꯨꯗꯤꯡꯃꯛꯤ ꯑꯦꯛꯁꯔꯁꯥꯏꯖ
ꯕꯨꯛ ꯑꯅꯤ ꯊꯝꯍꯟꯕꯒꯤ ꯃꯍꯨꯠꯇ ꯇꯉꯥꯏꯐꯗꯃꯛ ꯁ꯭ꯀꯨꯜꯗ ꯄꯨꯍꯜꯂꯒ ꯑꯇꯩꯅ ꯁ꯭ꯀꯨꯜꯒꯤ
ꯀꯁꯇꯗꯤꯗ ꯊꯝꯂꯕꯁꯨ ꯊꯣꯏꯅ ꯑꯀꯥꯏꯕ ꯂꯩꯒꯅꯤ ꯍꯥꯏꯕ ꯅꯤꯡꯗꯦ꯫ ꯑꯉꯥꯡꯁꯤꯡꯗ ꯃꯇꯤꯛ
ꯃꯄꯥ ꯆꯥꯗꯅ ꯑꯔꯨꯝꯕ ꯄꯣꯠ ꯄꯨꯍꯟꯕ ꯍꯥꯏꯕꯁꯤ ꯑꯉꯥꯡ ꯑꯗꯨꯒꯤ ꯍꯛꯁꯦꯜꯒꯤ ꯀꯥꯡꯂꯣꯟꯗ
ꯁꯥꯊꯤꯅ ꯁꯣꯛꯍꯜꯂꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯃꯇꯝꯗ ꯑꯉꯥꯡ ꯑꯗꯨ ꯆꯠꯄꯗ ꯃꯑꯣꯡ ꯆꯨꯝꯗꯕ
ꯑꯣꯏꯍꯜꯂꯛꯄ ꯌꯥꯏ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯑꯉꯥꯡ ꯑꯃꯅ ꯃꯍꯩ ꯇꯝꯕ ꯆꯠꯄꯗ ꯀꯦꯖꯤ 5ꯒꯤ
ꯃꯊꯛꯇ ꯂꯨꯕꯥ ꯃꯄꯣꯠ ꯃꯆꯩ ꯃꯌꯥꯝ ꯄꯨꯣꯂꯂꯤꯕꯁꯤ ꯇꯉꯥꯏꯐꯗꯕ ꯑꯣꯏꯕ꯭ꯔ ꯍꯥꯏꯕꯗꯨ ꯁ꯭ꯀꯨꯜ
ꯑꯣꯊꯣꯔꯤꯇꯤꯅ ꯌꯦꯡꯁꯤꯟꯒꯗꯕꯅꯤ꯫ ꯇꯉꯥꯏꯗꯕ ꯑꯣꯏꯔꯒꯁꯨ ꯀꯝꯗꯧꯅ ꯆꯍꯤ ꯅꯧꯔꯤꯕ
ꯑꯉꯥꯡꯁꯤꯡꯗ ꯄꯣꯠꯂꯨꯝ ꯄꯨꯕꯒꯤ ꯁꯤꯁꯇꯦꯝ ꯑꯁꯤ ꯃꯍꯨꯠ ꯁꯤꯟꯕ ꯌꯥꯕ ꯂꯩꯕ꯭ꯔ ꯍꯥꯏꯕꯗꯨꯁꯨ
ꯌꯦꯡꯒꯗꯕꯅꯤ ꯆꯥꯎꯈꯠꯄ ꯂꯩꯕꯥꯛꯁꯤꯡꯗꯗꯤ ꯃꯤꯅꯤ ꯇꯦꯕ꯭ꯂꯦꯠ ꯑꯃ ꯄꯥꯏꯔꯒ ꯃꯍꯩꯁꯪꯗ
ꯆꯠꯄꯒꯤ ꯆꯠꯅꯕꯤ ꯂꯩꯔꯦ꯫ ꯃꯁꯤꯃꯛ ꯃꯅꯤꯄꯨꯔꯗ ꯇꯧꯕ ꯉꯝꯗ꯭ꯔꯒꯁꯨ ꯑꯔꯨꯝꯕ ꯂꯥꯏꯔꯤꯛꯈꯥꯎ
ꯅꯝꯕꯣ ꯄꯣꯍꯜꯂꯒ ꯌꯥꯡꯂꯦꯟ ꯁꯔꯨ ꯀꯣꯜꯍꯟꯕꯒꯤ ꯆꯠꯅꯕꯤ ꯑꯁꯤꯗꯤ ꯃꯨꯠꯊꯠꯄ ꯆꯨꯝꯂꯦ꯫

ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯄꯟꯖꯅꯤꯡꯕꯗꯤ ꯔꯥꯏꯠ ꯇꯨ ꯑꯦꯗꯨꯀꯦꯁꯟ ꯑꯦꯛꯇ ꯌꯥꯎꯔꯤꯕꯁꯤꯡ ꯑꯗꯨ ꯀꯔꯤ
ꯀꯔꯤꯅꯣ ꯍꯥꯏꯕ ꯃꯍꯩꯁꯪ ꯆꯂꯥꯏꯔꯤꯕꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯃꯍꯩꯁꯪ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯃꯔꯤ ꯂꯩꯅꯕ
ꯑꯣꯊꯣꯔꯤꯇꯤꯅ ꯀꯨꯞꯊꯅ ꯌꯦꯡꯕ ꯆꯪꯏ꯫ ꯑꯦꯛ ꯍꯥꯏꯕꯁꯤ ꯃꯔꯤ ꯂꯩꯅꯕ ꯀꯥꯡꯕꯨ ꯑꯗꯨ ꯑꯣꯠꯂꯒꯦ
ꯍꯥꯏꯅ ꯁꯦꯝꯕ ꯅꯠꯇꯦ꯫ ꯃꯍꯩꯔꯣꯏꯁꯤꯡꯒꯤꯁꯨ ꯌꯥꯏꯐꯅꯕ ꯑꯃꯁꯨꯡ ꯃꯍꯩꯁꯪ ꯆꯂꯥꯏꯔꯤꯕ ꯀꯥꯡꯕꯨꯗꯥꯨ
ꯄꯔꯝ ꯆꯨꯝꯅ ꯃꯍꯩ ꯇꯝꯕꯤꯕ ꯉꯝꯍꯟꯅꯕꯒꯤꯗꯃꯛꯇꯅꯤ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯑꯉꯥꯡꯁꯤꯡꯗ
ꯑꯔꯨꯝꯕ ꯂꯥꯏꯔꯤꯛꯈꯥꯎ ꯄꯨꯔꯒ ꯃꯍꯩꯁꯪꯗ ꯂꯥꯛꯍꯟꯕ ꯊꯤꯡꯅꯕ ꯂꯩꯉꯥꯛ ꯑꯃꯁꯨꯡ ꯃꯍꯩꯔꯣꯏ
ꯂꯨꯞꯁꯤꯡꯅ ꯑꯈꯟꯅꯕ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯕ ꯆꯨꯝꯃꯤ꯫

ꯁꯦꯟꯗꯣꯡ ꯂꯩꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯕ
ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯤꯌꯥꯝꯅ ꯄꯥꯝꯅꯕ ꯑꯦꯟꯖꯥꯡ ꯃꯈꯜꯁꯤꯡꯒꯤ
ꯃꯅꯨꯡꯗ ꯑꯃꯅꯤ꯫ ꯃꯅꯤꯄꯨꯔꯗ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯁꯥꯒ ꯑꯣꯏꯅ, ꯈꯔ
ꯀꯪꯅ ꯉꯧꯔꯒ, ꯉꯥꯜꯂꯕ ꯃꯇꯨꯡ ꯀꯪꯅ ꯃꯦꯠꯇꯨꯅ, ꯏꯔꯣꯝꯕ ꯑꯣꯏꯅ,
ꯕꯣꯔꯥ ꯍꯧꯗꯨꯅ ꯑꯃꯗꯤ ꯆꯝꯅ ꯉꯥꯟꯗꯨꯅ ꯆꯥꯅꯕ ꯑꯦꯟꯖꯥꯡ ꯃꯈꯜꯅꯤ꯫

ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯒ꯭ꯔꯥꯝ 100 ꯗ ꯌꯥꯎꯕ ꯃꯔꯨꯑꯣꯏꯕ ꯆꯤꯟꯖꯥꯛꯀꯤ
ꯃꯆꯟ ꯈꯔ ꯊꯝꯖꯒꯦ꯫ ꯆꯅꯥꯡ (ꯀꯥꯔꯕꯣꯍꯥꯏꯗ꯭ꯔꯦꯠ)- ꯒ꯭ꯔꯥꯝ 6.4,
ꯄ꯭ꯔꯣꯇꯤꯟ ꯒ꯭ꯥꯔꯝ 1.9, ꯐꯦꯠ ꯒ꯭ꯔꯥꯝ 0.3, ꯄꯣꯇꯥꯁꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ
103, ꯀꯦꯜꯁꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 66, ꯐꯣꯁꯐꯔꯁ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 56,
ꯃꯦꯒꯅꯤꯁꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 43, ꯁꯣꯗꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 6.9 \

ꯥꯎꯏ꯫ ꯍꯥꯏꯕꯗꯤ ꯆꯥꯕꯗ ꯍꯥꯎꯕꯗ ꯅꯠꯇꯅ ꯍꯛꯆꯥꯡꯗ ꯀꯥꯟꯅꯕ ꯃꯆꯜ
ꯀꯌꯥ ꯌꯥꯎꯔꯤ ꯍꯥꯏꯕꯅꯤ꯫ ꯂꯣꯏꯅꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯕꯗ ꯁꯦꯟꯗꯣꯡ
ꯅꯤꯡꯊꯤꯅ ꯐꯪꯕ ꯉꯝꯃꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯕꯒꯤ
ꯃꯔꯝꯗ ꯈꯔ ꯈꯪꯖꯤꯟꯃꯤꯟꯅꯕ ꯀꯥꯟꯅꯒꯅꯤ ꯈꯜꯂꯤ꯫

ꯃꯈꯜ:

ꯑꯐꯕ ꯃꯈꯜ ꯀꯌꯥ ꯑꯃ ꯃꯃꯥꯡꯉꯩꯗꯒꯤ ꯂꯩꯔꯛꯏ ꯑꯗꯨꯕꯨ
ꯃꯅꯤꯄꯨꯔꯗ ꯃꯔꯨ ꯃꯔꯥꯡ ꯌꯣꯟꯕꯤꯔꯤꯕꯁꯤꯡꯅ ꯍꯧꯖꯤꯛꯇꯤ ꯑꯅꯧꯕ
ꯃꯈꯜ ꯀꯌꯥ ꯑꯃ ꯃꯄꯥꯟꯗꯒꯤ ꯄꯨꯁꯤꯜꯂꯛꯇꯨꯅ ꯃꯅꯤꯄꯨꯔꯗ ꯃꯥꯏ
ꯄꯥꯛꯅ ꯊꯥꯅꯔꯦ꯫ ꯃꯅꯤꯄꯨꯔꯗꯗꯤ ꯃꯔꯨꯑꯣꯏꯅ ꯑꯐꯕ ꯀꯝꯄꯦꯅꯤ
ꯀꯌꯥꯅ ꯄꯨꯊꯣꯛꯄ ꯃꯈꯜꯅ ꯑꯌꯥꯝꯕ ꯑꯣꯏꯅ ꯇꯧꯔꯦ꯫ ꯏꯟꯗꯤꯌ
ꯥꯟ ꯏꯁꯇꯤꯇ꯭ꯌꯨꯠ ꯑꯣꯐ ꯍꯣꯔꯇꯤꯀꯦꯜꯆꯔ ꯔꯤꯁꯥꯔꯁ (ꯑꯥꯏ ꯑꯥꯏ
ꯑꯩꯆ ꯑꯥꯔ) ꯅ ꯄꯨꯊꯣꯛꯄ ꯚꯂꯦꯟꯗ꯭ꯔꯤ ꯃꯈꯜ ꯈꯔꯁꯨ ꯃꯅꯤꯄꯨꯔꯗ \

ꯥꯝꯅꯃꯛ ꯐꯕ ꯊꯦꯡꯅꯩ꯫

ꯃꯈꯣꯏꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯃꯔꯨꯒꯤ ꯃꯃꯜ ꯈꯔ ꯇꯥꯡꯖꯔꯒꯁꯨ ꯐꯠꯇꯦ
ꯍꯥꯏꯕꯗꯤ ꯌꯥꯔꯣꯏ꯫ ꯃꯈꯜ ꯈꯔ ꯊꯝꯖꯒꯦ- ꯑꯔꯀꯥ ꯑꯅꯥꯃꯤꯀꯥ (ꯑꯥꯏ
ꯑꯥꯔ ꯑꯩꯆ ꯑꯥꯔꯒꯤ ꯃꯈꯜꯅꯤ), ꯌꯨ ꯑꯦꯁ- 7902, ꯚꯤꯟꯗꯤ ꯅꯝꯕꯔ
1, ꯕꯥꯁꯟꯇꯤ ꯄꯟꯕ ꯌꯥꯕ ꯆꯥꯊꯣꯛ ꯂꯩꯕ ꯍꯥꯏꯕ꯭ꯔꯤꯗ ꯃꯈꯜꯅ ꯑꯌ
ꯥꯝꯕꯅꯤ꯫ ꯑꯔꯀꯥ ꯑꯅꯥꯃꯤꯀꯥꯗꯤ ꯍꯥꯏꯕ꯭ꯔꯤꯗ ꯅꯠꯇꯦ ꯑꯗꯨꯕꯨ ꯌꯥꯝꯅꯗꯤ
ꯐꯕ ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯌꯥꯝꯅ ꯃꯥꯏ ꯄꯥꯛꯅꯈ꯭ꯔꯕ ꯃꯈꯜꯅꯤ꯫ ꯄꯟꯖꯔꯤꯕ
ꯚꯦꯂꯦꯟꯗ꯭ꯔꯤꯁꯤꯡ ꯑꯁꯤ ꯂꯣꯏꯅꯃꯛ ꯄꯥꯝꯕꯤꯅ ꯅꯦꯝꯂꯤꯉꯩ ꯃꯇꯝ
ꯍꯥꯏꯕꯗꯤ ꯃꯅꯥ ꯑꯍꯨꯝ ꯔꯤ ꯁꯨꯕꯗꯒꯤ ꯄꯥꯟꯕ ꯍꯧꯕꯗꯨꯅ ꯄꯥꯝꯕꯤ
ꯑꯃꯗ ꯃꯍꯩ 25-30 ꯍꯦꯟꯅ ꯄꯥꯟꯕ ꯉꯥꯛꯇꯅꯤ꯫ ꯃꯁꯥ ꯃꯔꯦꯡ
ꯀꯌꯥ ꯂꯣꯡꯒꯟꯗꯦ, ꯃꯍꯩꯒꯤ ꯃꯆꯨ ꯑꯁꯪꯕ ꯑꯣꯏꯅ ꯇꯧꯏ꯫ ꯄꯥꯝꯕꯤꯅ
ꯂꯤꯁꯤꯜꯂꯛꯂꯕ ꯃꯇꯝꯗ ꯃꯈꯣꯡꯗ ꯃꯁꯥ ꯃꯆꯥ ꯑꯅꯤ ꯑꯍꯨꯝ
ꯂꯣꯡꯊꯣꯔꯛꯄ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯂꯣꯡꯂꯛꯄ ꯃꯁꯥꯁꯤꯡꯗꯁꯨ ꯑꯗꯨꯃꯛ
ꯚꯂꯦꯟꯗ꯭ꯔꯤ ꯄꯥꯟꯕ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯄꯟꯖꯔꯤꯕ ꯃꯈꯜꯁꯤꯡ ꯑꯁꯤ
ꯄꯥꯝꯕꯤ ꯑꯁꯤꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯁꯥꯇꯤ ꯍꯥꯏꯅ ꯂꯧꯅꯔꯤꯕ ꯚꯥꯏꯔꯁꯀꯤ

mkTek YVMV (Yellow vein mosaic Virus) fkxErq

ꯃꯈꯜꯁꯤꯡꯅꯤ꯫

ꯑꯏꯪ ꯑꯁꯥ: ꯚꯦꯂꯟꯗ꯭ꯔꯤꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯥꯟꯅꯕ ꯑꯏꯪ ꯑꯁꯥꯗꯤ
250 ꯁꯤ-300 ꯁꯤꯅꯤ꯫ ꯀꯥ ꯍꯦꯟꯅ ꯏꯪꯕ ꯄꯛꯅꯗꯦ꯫ ꯀꯥ ꯍꯦꯟꯅ
ꯁꯥꯔꯕꯁꯨ ꯄꯛꯅꯗꯦ꯫

ꯊꯥꯕꯒꯤ ꯃꯇꯝ: ꯃꯅꯤꯄꯨꯔꯗ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯑꯁꯤ ꯐꯦꯕ꯭ꯔꯨꯋ
ꯥꯔꯤꯗꯒꯤꯅ ꯑꯄ꯭ꯔꯤꯜ ꯐꯥꯎꯕ ꯑꯗꯨꯃꯛ ꯊꯥꯕ ꯌꯥꯏ꯫ ꯈꯔ ꯉꯟꯅ
ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ ꯅꯤꯡꯊꯤꯅ ꯍꯧꯍꯟꯕ ꯉꯝꯂꯕꯗꯤ ꯑꯇꯥꯡꯕ ꯅꯪꯏ꯫

ꯃꯔꯝꯗꯤ ꯑꯌꯥꯝꯕꯅ ꯊꯥ ꯑꯁꯤꯗ ꯃꯥꯏ ꯄꯥꯛꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯇꯣꯟ
ꯆꯣꯡꯍꯟꯗꯅꯨ ꯍꯧꯍꯟꯕꯗ ꯈꯔ ꯋꯥꯡꯏ, ꯈꯨꯠ ꯈꯔ ꯆꯪꯏ꯫

ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎ: ꯚꯦꯂꯟꯗ꯭ꯔꯤꯗꯤ ꯂꯩꯉꯣꯏ ꯑꯃꯁꯨꯡ ꯑꯀꯟꯕ
ꯂꯩꯇꯥꯟ ꯂꯝꯗ ꯄꯛꯅꯗꯦ꯫ ꯐꯣꯂꯤ ꯇꯥꯕ ꯑꯣꯔꯒꯥꯅꯤꯛ ꯃꯦꯇꯔ ꯌꯥꯝꯅ
ꯌꯥꯎꯕ ꯦꯍꯃꯂ ꯑꯃꯁꯨꯡ ꯏꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ ꯆꯤꯊꯣꯛ ꯆꯤꯁꯤꯟ \

ꯥꯕ ꯍꯥꯏꯕꯗꯤ ꯏꯁꯤꯡ ꯇꯨꯒꯟꯗꯕ ꯃꯐꯝꯗꯅ ꯈꯔ ꯍꯦꯟꯅ ꯄꯛꯅꯩ꯫

ꯑꯁꯤꯟ ꯑꯌꯥꯛꯇꯤ

PH 6-6.8 WkBqxg aebir mpqe SD_
ꯥꯏꯗꯒꯤ ꯆꯥꯟꯅꯩ꯫

ꯑꯔꯟ ꯑꯀꯨꯡ: ꯃꯅꯤꯄꯨꯔꯒꯤ ꯑꯣꯏꯅꯗꯤ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ
ꯊꯥꯕꯗ ꯈꯔ ꯀꯨꯡꯁꯤꯟꯕ ꯐꯩ ꯑꯗꯨꯒ ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯔꯒꯅ ꯈꯔ
ꯂꯟꯣꯛꯄ ꯐꯩ꯫ ꯃꯔꯝꯗꯤ ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯕ ꯃꯇꯝꯗ ꯀꯨꯝꯒꯤ ꯅꯣꯡ
ꯈꯔ ꯅꯪꯕ ꯌꯥꯏ, ꯅꯣꯡ ꯅꯪꯂꯕꯗꯤ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯈꯔ ꯋꯥꯡꯒꯜꯂꯤ꯫

ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤꯗ ꯊꯥꯕꯒꯤꯗꯃꯛ ꯄꯔꯦꯡꯒ ꯄꯔꯦꯡꯒ ꯐꯨꯠ ꯑꯃ ꯃꯈꯥꯏ,
ꯄꯔꯦꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯝꯕꯤꯒ ꯄꯥꯝꯕꯤꯒ ꯐꯨꯠꯈꯥꯏ ꯑꯃ ꯑꯣꯏꯍꯟꯕ
ꯆꯞ ꯆꯥꯔꯦ꯫ ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯒꯦ ꯍꯥꯏꯔꯕꯗꯤ ꯄꯔꯦꯡꯒ ꯄꯔꯦꯡꯒ
ꯐꯨꯠ ꯑꯅꯤ ꯑꯗꯨꯒ ꯄꯥꯝꯕꯤꯒ ꯄꯥꯝꯕꯤꯒ ꯏꯆꯤꯟ ꯇꯔꯥꯗꯒꯤ ꯐꯨꯠ ꯑꯃ
ꯐꯥꯎꯕ ꯂꯜꯍꯟꯕ ꯐꯩ꯫

ꯐꯩꯗꯣꯝ ꯁꯦꯝꯕ: ꯐꯩꯗꯣꯝꯁꯤꯡ ꯈꯥ-ꯋꯥꯡ ꯑꯣꯏꯅ ꯂꯩꯍꯟꯁꯤ, ꯐꯩꯗꯣꯝ
ꯑꯃꯗ ꯄꯔꯦꯡ ꯑꯅꯤ ꯊꯥꯕ ꯌꯥꯅꯕ ꯁꯦꯝꯕꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯩ꯫ ꯃꯔꯝꯗꯤ
ꯃꯁꯤꯅ ꯚꯦꯂꯦꯟꯗ꯭ꯔꯤ ꯍꯦꯛꯄꯗ ꯈꯨꯠꯂꯣꯏꯕꯒ ꯂꯣꯏꯅꯅ ꯄꯥꯝꯕꯤ
ꯁꯦꯝꯕꯤ ꯁꯥꯕꯤꯕ, ꯃꯈꯣꯡ ꯁꯣꯝꯕꯅꯆꯤꯡꯕꯗ ꯅꯨꯡꯉꯥꯏꯕ ꯍꯦꯜꯂꯤ꯫

ꯐꯩꯗꯣꯝꯒꯤ ꯑꯄꯥꯛꯄ ꯑꯁꯤ ꯑꯔꯟꯕ ꯀꯥꯡꯕꯨꯒꯤꯅ ꯃꯇꯥꯏꯗꯒꯤ
ꯃꯇꯥꯏꯐꯥꯎꯕ ꯐꯨꯠ ꯃꯔꯤ ꯑꯗꯨꯒ ꯑꯀꯨꯡꯕ ꯀꯥꯡꯕꯨꯒꯤꯅ ꯐꯨꯠ ꯑꯍꯨꯝ
ꯑꯣꯏꯍꯟꯁꯤ꯫ ꯐꯩꯗꯣꯝꯒꯤ ꯃꯔꯛꯇ ꯐꯨꯠ ꯑꯃꯒꯤ ꯆꯨꯔꯤ ꯐꯨꯠꯈꯥꯏ
ꯑꯃ ꯂꯨꯅ ꯊꯝꯁꯤ꯫

ꯃꯔꯨꯒꯤ ꯆꯥꯡ: ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ ꯊꯥꯔꯕꯗꯤ ꯁꯉꯝꯗ ꯀꯤꯂꯣ
ꯃꯉꯥꯃꯨꯛ ꯑꯗꯨꯒ ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯔꯒꯅ ꯀꯤꯂꯣ ꯑꯍꯨꯝ ꯃꯈꯥꯏꯃꯨꯛ
ꯆꯪꯒꯅꯤ꯫

ꯃꯔꯨꯗ ꯍꯤꯗꯥꯛ ꯇꯣꯠꯄ: ꯄꯣꯠ ꯈꯨꯗꯤꯡꯃꯛ ꯊꯥꯔꯝꯗꯥꯏꯗ
ꯃꯔꯨꯗ ꯍꯤꯗꯥꯛ ꯇꯣꯠꯄ ꯀꯥꯎꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯔꯨ ꯀꯤꯂꯣ ꯑꯃꯗ
ꯁꯥꯐꯒ꯭ꯔꯥꯝ ꯑꯅꯤ ꯃꯨꯠ ꯇꯔꯥꯅ ꯀꯪꯅ ꯇꯣꯠꯤꯌꯨ꯫ ꯅꯠꯇ꯭ꯔꯒ ꯀꯦꯞꯇꯥꯏ
ꯍꯥꯏꯔꯤꯕ ꯍꯤꯗꯥꯛ ꯃꯐꯣꯜꯁꯤ ꯑꯣꯏꯔꯕꯁꯨ ꯁꯥꯐꯀ ꯆꯞ ꯃꯥꯟꯅꯕ
ꯆꯥꯡꯗ ꯇꯣꯠꯁꯤ꯫ ꯕꯥꯏꯑꯣꯒꯤ ꯑꯣꯏꯔꯒꯅ ꯇ꯭ꯔꯤꯀꯣꯗꯔꯃꯥ ꯌꯥꯎꯕ
ꯍꯤꯗꯥꯛ ꯃꯔꯨ ꯀꯤꯂꯣ ꯑꯃꯗ ꯒ꯭ꯔꯥꯝ 7-8 ꯇꯣꯠꯄꯤꯒꯅꯤ꯫ ꯈꯨꯗꯝ
ꯑꯣꯏꯅ ꯇ꯭ꯔꯤꯀꯣꯗꯔꯃꯥ ꯃꯈꯜ ꯑꯍꯨꯝ ꯌꯥꯎꯕ ꯁꯛꯇꯤ- ꯑꯦ ꯖꯤ
ꯄꯟꯕ ꯌꯥꯏ꯫ ꯕꯥꯏꯑꯣꯒ ꯔꯁꯌꯥꯟꯒ ꯀꯩꯗꯧꯅꯨꯡꯗ ꯄꯨꯟꯅ ꯇꯣꯠꯄ \

ꯥꯗꯦ ꯑꯃ ꯅꯠꯇ꯭ꯔꯒ ꯑꯃ ꯁꯤꯖꯤꯟꯅꯒꯅꯤ꯫

ꯊꯥꯕ: ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯔꯨ ꯑꯍꯤꯡ ꯑꯃ ꯏꯁꯤꯡꯗ
ꯇꯤꯡꯊꯣꯛꯂꯒ ꯊꯥꯕꯅ ꯈꯨꯠꯂꯩ ꯊꯨꯅ ꯍꯧꯕ ꯍꯦꯜꯂꯤ ꯑꯗꯨꯕꯨ ꯏꯁꯤꯡ
ꯋꯥꯠꯄ ꯃꯇꯝꯗ ꯏꯁꯤꯡ ꯄꯤꯕ ꯉꯝꯂꯣꯏꯗꯕ ꯑꯣꯏꯔꯕꯗꯤ
ꯇꯤꯡꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯊꯥꯔꯕ ꯃꯇꯨꯡꯗ ꯆꯨꯔꯤꯗ ꯏꯁꯤꯡ ꯊꯥꯖꯤꯟꯕ
ꯅꯠꯇ꯭ꯔꯒ ꯑꯇꯣꯞꯄ ꯃꯑꯣꯡꯗ ꯏꯁꯤꯡ ꯆꯟꯕꯤꯕ ꯉꯝꯂꯕꯗꯤ
ꯇꯤꯡꯊꯣꯛꯄꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯩ꯫

ꯍꯥꯔ ꯍꯥꯞꯄ: ꯁꯟꯊꯤ ꯁꯟꯌꯨꯡꯒꯤ ꯅꯠꯇ꯭ꯔꯒ ꯀꯝꯄꯣꯖꯤꯠꯀꯤ
ꯍꯥꯔꯂꯩꯔꯕꯗꯤ KZA ꯑꯃꯗ KE ꯒꯥꯔꯤ ꯃꯄꯣꯠ ꯃꯉꯥ ꯇꯔꯨꯛ
ꯍꯥꯞꯄꯤꯕ ꯐꯩ꯫ ꯊꯥꯒꯗꯕ ꯊꯥ ꯃꯈꯥꯏ ꯑꯃ ꯃꯥꯡꯖꯧꯅꯅ ꯈꯣꯏꯁꯤꯟꯕꯤꯍꯧꯕꯅ
ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯩ꯫ ꯄꯥꯝꯕꯤ ꯌꯥꯝꯗꯅ ꯐꯩꯗꯣꯝ ꯈꯔ ꯊꯥꯕꯒꯤ ꯑꯣꯏꯔꯕꯗꯤ
ꯀꯥꯡꯈꯨꯜꯗ ꯍꯥꯏꯔꯤꯕ ꯍꯥꯔ ꯑꯁꯤ ꯈꯨꯖꯣꯛ ꯑꯆꯧꯕ ꯑꯃꯃꯝ
ꯍꯥꯞꯄꯤꯒꯅꯤ꯫ ꯔꯁꯌꯥꯟꯒꯤ ꯍꯥꯔꯗꯤ KZA ꯑꯃꯗ ꯌꯨꯔꯤꯌꯥ ꯀꯤꯂꯣ
45-50, ꯑꯦꯁ ꯑꯦꯁ ꯄꯤ ꯀꯤꯂꯣ 75-80, ꯑꯦꯝ ꯑꯣ ꯄꯤ ꯀꯤꯂꯣ
20-25 ꯐꯥꯎꯕ ꯍꯥꯞꯄ ꯌꯥꯏ꯫ ꯑꯔꯣꯏꯕ ꯈꯣꯏꯕꯗ ꯌꯨꯔꯤꯌꯥ ꯁꯔꯨꯛ
ꯑꯍꯨꯝ ꯊꯣꯛꯄꯒꯤ ꯑꯃ (ꯀꯤꯂꯣ 15-17) ꯑꯦꯁ ꯑꯦꯁ ꯄꯤ ꯑꯃꯁꯨ
ꯑꯦꯝ ꯑꯣ ꯄꯤ ꯄꯨꯟꯅ ꯍꯥꯞꯇꯨꯅ ꯃꯃꯨꯠ ꯇꯥꯅ ꯈꯣꯏꯁꯤꯟꯕꯤꯍꯧꯒꯅꯤ꯫

ꯃꯄꯥꯟ ꯁꯥꯔꯝꯗꯥꯏꯗ ꯂꯦꯝꯍꯧꯔꯤꯕ ꯌꯨꯔꯤꯌꯥꯒꯤ ꯇꯪꯘꯥꯏ ꯑꯃ ꯑꯗꯨꯒ
ꯑꯃꯨꯛ ꯊꯥ ꯃꯈꯥꯏ ꯑꯃ ꯂꯩꯔꯒ ꯂꯦꯝꯍꯧꯔꯤꯕ ꯁꯔꯨꯛꯇꯨꯍꯥꯞꯄꯤꯒꯅꯤ꯫

ꯏꯁꯤꯡ ꯆꯟꯕ:

ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯏꯁꯤꯡ ꯇꯣꯏꯅ ꯆꯥꯏꯕꯤꯕ ꯐꯩ꯫ ꯍꯞꯇꯥ ꯈꯨꯗꯤꯡꯒꯤ
ꯏꯁꯤꯡ ꯆꯥꯏꯕꯤꯔꯕꯗꯤ ꯆꯥꯊꯣꯛ ꯌꯥꯝꯅ ꯂꯩꯒꯅꯤ꯫ ꯏꯁꯤꯡ ꯆꯥꯏꯕꯒꯤ
ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯕ, ꯏꯁꯤꯡ ꯌꯥꯝꯅ ꯆꯪꯗꯅ, ꯄꯥꯝꯕꯤꯗꯁꯨ ꯆꯞ ꯆꯥꯅ
ꯏꯁꯤꯡ ꯐꯪꯕ ꯉꯝꯕ ꯃꯑꯣꯡꯗ, ꯏꯁꯤꯡ ꯃꯥꯡꯍꯟꯗꯅ ꯏꯁꯤꯡ
ꯆꯟꯕꯒꯤ ꯃꯑꯣꯡꯗꯤ Sprinkler ꯁꯤꯖꯤꯟꯅꯕꯅꯤ꯫

Sprinkler ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯏꯁꯤꯡ ꯆꯥꯏꯕ ꯍꯥꯏꯕꯁꯤꯗ
ꯃꯤꯌꯥꯃꯟ ꯁꯦꯜ ꯌꯥꯝꯅ ꯆꯪꯕ, ꯄꯥꯛ ꯍꯦꯛꯇ ꯉꯝꯂꯣꯏꯗꯕ ꯑꯣꯏꯅ
ꯂꯧꯕꯤꯔꯝꯕ ꯌꯥꯏ ꯃꯗꯨꯃꯛꯇꯤ ꯅꯠꯇꯦ꯫ ꯈꯪꯖꯤꯟꯕꯗ ꯀꯥꯟꯅꯒꯅꯤ
ꯈꯜꯂꯤ꯫ ꯏꯁꯤꯡꯒꯤ ꯁꯣꯔꯁ ꯍꯥꯏꯕꯗꯤ ꯏꯁꯤꯡ ꯂꯧꯐꯝ ꯄꯨꯈ꯭ꯔꯤꯒꯨꯝꯕ
ꯑꯃ ꯅꯠꯇ꯭ꯔꯒ ꯑꯇꯣꯞꯄꯀ ꯁꯣꯔꯁ ꯂꯩꯔꯕꯗꯤ ꯈꯨꯗꯣꯡ ꯆꯥꯕ ꯑꯁꯤ
ꯂꯧꯍꯟꯖꯅꯤꯡꯏ꯫ ꯃꯁꯤꯒꯤꯗꯃꯛ 0.5 ꯍꯣꯔꯁ ꯄꯋꯥꯔꯒꯤ ꯇꯨꯂꯨ ꯑꯃ

TmldfDjgdsg SbrOivkiq, Sprinkler nozzle (aaM

ꯌꯥꯝꯅ ꯇꯥꯡꯗꯦ) ꯑꯃ, ꯇꯨꯂꯨꯗꯨꯒ ꯆꯥꯟꯅꯕ ꯄꯥꯏꯞ ꯈꯔ, ꯄꯌꯥ ꯈꯔ, \

ꯨꯡꯅꯅꯕ ꯃꯆꯩ (ꯋꯥꯒꯤ ꯅꯠꯇ꯭ꯔꯒ ꯎꯒꯤ) ꯑꯃꯈꯛ ꯁꯤꯖꯤꯟꯅꯔꯒ \

ꯥꯔꯦ꯫ ꯇꯨꯂꯨ ꯄꯥꯟꯈꯠꯄꯤꯔꯣ, ꯄꯥꯏꯞ ꯁꯝꯕꯤꯔꯣ, ꯄꯥꯏꯞꯀꯤ ꯑꯔꯣꯏꯕ
ꯃꯇꯣꯟꯗꯨ Sprinkler nozle ꯗ ꯍꯨꯛꯆꯤꯜꯂꯒ ꯔꯕꯔ ꯔꯤꯕꯟꯅ
ꯆꯦꯠꯅ ꯄꯨꯟꯕꯤꯔꯣ, ꯃꯐꯝ ꯆꯥꯅ ꯌꯨꯡꯅꯅꯕ ꯃꯆꯩꯗꯨ ꯌꯨꯡꯂꯒ ꯅꯣꯖꯜꯒꯤ
ꯃꯆꯩꯗꯨ ꯎꯌꯨꯡꯗꯨꯒꯤ ꯑꯋꯥꯡꯕꯗꯒꯤ ꯅꯨꯖꯜ ꯃꯇꯣꯟꯗꯨꯅ ꯋꯥꯡꯕ ꯈꯔ
ꯍꯦꯟꯒꯠꯅ ꯃꯨꯔꯇꯤ ꯆꯨꯝꯅ ꯄꯨꯟꯕꯤꯔꯣ (ꯐꯣꯇꯣꯗ ꯎꯠꯂꯤꯕꯗꯨ \

ꯦꯡꯕꯤꯌꯨ), ꯇꯨꯂꯨ ꯊꯥꯔꯣ, ꯑꯁꯨꯝꯅ ꯅꯨꯖꯜ ꯃꯇꯣꯟꯗꯒꯤ ꯂꯩ-ꯂꯩꯗꯨꯅ ꯁꯤꯟꯕ
ꯊꯨꯡꯅ ꯆꯥꯏꯔꯛꯄ ꯏꯁꯤꯡꯅ ꯂꯩꯕꯥꯛ ꯆꯣꯠꯄꯒꯤ ꯆꯥꯡ ꯌꯦꯡꯕꯤꯔꯣ,
ꯃꯐꯝ ꯍꯣꯡ ꯍꯣꯡꯗꯨꯅ ꯂꯧꯐꯝ ꯁꯤꯟꯕ ꯊꯨꯡꯅ ꯏꯁꯤꯡ ꯆꯥꯏꯕꯤꯕ ꯌꯥꯔꯦ꯫

ꯍꯥꯏꯔꯤꯕ ꯃꯑꯣꯡ ꯑꯁꯤ ꯃꯔꯨ ꯍꯦꯛ ꯊꯥꯕꯗꯒꯤ ꯑꯗꯨꯃꯛ ꯍꯧꯕꯤꯕ
ꯌꯥꯔꯦ꯫ ꯈꯩꯗꯡ"ꯥꯦꯅꯗ ꯅ ꯏꯁꯤꯡ ꯆꯟꯕꯒꯤ ꯊꯧꯑꯣꯡꯗꯤ ꯅꯨꯖꯜꯗꯒꯤ
ꯇꯥꯔꯛꯂꯤꯕ ꯏꯁꯤꯡꯒꯤ ꯆꯥꯡꯗꯒꯤ ꯂꯩꯕꯥꯛꯅ ꯇꯥꯔꯛꯂꯤꯕ ꯏꯁꯤꯡꯗꯨꯕꯨ
ꯆꯨꯞꯁꯤꯟꯕꯒꯤ ꯆꯥꯡꯅ ꯍꯦꯟꯕ ꯑꯁꯤꯅꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯀꯩꯗꯧꯅꯨꯡꯗ
ꯑꯔꯦꯝꯕꯗ ꯑꯍꯦꯟꯕ ꯏꯁꯤꯡ ꯆꯦꯟꯊꯣꯛꯇꯨꯅ ꯃꯥꯡꯗꯕ ꯑꯁꯤꯅꯤ꯫

ꯂꯩꯕꯥꯛ ꯌꯩꯁꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯟꯊꯩ, ꯂꯩꯕꯥꯛ ꯆꯞ ꯆꯥꯕ ꯃꯑꯣꯡꯗ
ꯆꯣꯠꯍꯟꯕ ꯉꯝꯃꯤ꯫

ꯍꯥꯕꯦꯡꯕ: ꯅꯥꯄꯤꯒ ꯊꯥꯔꯤꯕ ꯄꯥꯝꯕꯤꯒ ꯃꯇꯝ ꯄꯨꯝꯅꯃꯛꯇ
ꯀꯝꯄꯤꯇꯤꯁꯟ ꯇꯧꯏ ꯍꯥꯏꯕꯁꯤ ꯃꯇꯝ ꯄꯨꯝꯅꯃꯛꯇ
ꯀꯥꯎꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯇꯝ ꯄꯨꯝꯅꯃꯛꯇ ꯅꯥꯄꯤ ꯍꯧꯗꯅꯕ ꯃꯈꯣꯡ
ꯁꯣꯝꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯁꯤꯅ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯔꯝꯗ ꯅꯨꯡꯁꯤꯠ
ꯐꯪꯍꯟꯗꯨꯅ ꯄꯥꯝꯕꯤ ꯃꯁꯥ ꯐꯕꯁꯨ ꯍꯦꯜꯍꯜꯂꯤ꯫

ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥ: ꯚꯦꯂꯟꯗ꯭ꯔꯤꯒꯤ ꯂꯥꯏꯅꯥ ꯁꯟꯗꯣꯛꯄ ꯉꯝꯕ ꯃꯍꯤ
ꯆꯨꯞꯄ ꯇꯤꯜꯁꯤꯡ ꯇꯥꯗꯨꯅ ꯃꯥꯡꯍꯟꯕ ꯌꯥꯏ꯫ ꯃꯈꯣꯏꯗꯒꯤ ꯑꯃꯗꯤ
ꯑꯇꯩ ꯑꯇꯣꯞꯄ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯁꯤꯡꯗꯒꯤ ꯉꯥꯛꯊꯍꯛꯅꯕ ꯃꯤꯠꯀꯨꯞ
ꯅꯥꯍꯨꯝ ꯁꯤꯡꯅ ꯂꯩꯕꯤꯒꯅꯤ ꯂꯣꯏꯅꯅ ꯑꯈꯪ ꯑꯍꯩ ꯃꯇꯝ ꯆꯥꯅ ꯇꯥꯟꯅꯗꯨꯅ
ꯃꯈꯣꯏꯗꯒꯤ ꯀꯟꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫

ꯍꯦꯛꯄ: ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯍꯦꯛꯄ ꯈꯔ ꯂꯨꯏ꯫ ꯃꯄꯨꯡ ꯐꯥꯔꯕ
ꯃꯍꯩ ꯑꯗꯨ ꯃꯇꯣꯟ ꯄꯥꯏꯗꯨꯅ ꯑꯅꯣꯞ ꯑꯇꯤꯡ ꯌꯦꯡꯕꯤꯒꯅꯤ, ꯈꯔ
ꯅꯣꯞꯂꯤꯉꯩꯗ ꯍꯦꯛꯄꯤꯒꯅꯤ꯫ ꯅꯣꯡꯃ ꯅꯣꯡꯃ ꯀꯥꯜꯂꯒ ꯆꯦꯛ ꯇꯧꯔꯒ
ꯍꯦꯛꯄꯤꯒꯅꯤ꯫ ꯑꯔꯤꯕ ꯌꯥꯎꯔꯝꯂꯕꯁꯨ ꯍꯦꯛꯇꯣꯛꯄꯤꯒꯅꯤ꯫

ꯑꯔꯤꯕ ꯍꯦꯛꯇꯣꯛꯇꯅ ꯊꯝꯕꯅ ꯃꯈꯥ ꯇꯥꯅ ꯄꯥꯟꯕ ꯍꯟꯊꯒꯅꯤ꯫

ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯇꯨ ꯄꯥꯟꯕ ꯄꯥꯝꯕꯤ ꯃꯈꯜꯅꯤ ꯃꯔꯝ ꯑꯁꯤꯅ ꯈꯔ ꯄꯥꯛ
ꯁꯟꯅ ꯊꯥꯗꯨꯅ ꯍꯣꯠꯅꯔꯕꯗꯤ ꯍꯦꯛꯄ ꯃꯇꯝꯗ ꯈꯨꯠꯅ ꯍꯦꯛꯄꯒꯤ
ꯃꯍꯨꯠꯇ ꯑꯊꯧꯕ ꯀꯥꯇꯤꯒꯨꯝꯕ ꯑꯃ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯍꯦꯛꯄꯤꯒꯅꯤ꯫

ꯍꯧꯖꯤꯛꯇꯤ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯍꯦꯛꯅꯕ ꯈꯨꯠꯂꯥꯏꯁꯨ ꯀꯩꯊꯦꯜꯗ ꯐꯪꯂꯦ ꯑꯃ
ꯑꯅꯤ ꯊꯝꯕꯤꯕ ꯐꯩ꯫ ꯃꯁꯤꯅ ꯍꯦꯛꯄ ꯃꯇꯝꯗ ꯈꯨꯠꯇ ꯑꯀꯥꯏ
ꯑꯇꯣꯏ ꯊꯣꯛꯍꯟꯕꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯒꯅꯤ꯫ ꯈꯨꯠꯇ ꯒ꯭ꯂꯣꯕ
ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯍꯦꯛꯄꯁꯨ ꯐꯩ꯫

ꯑꯦꯁ ꯁꯨꯃꯪꯒꯣꯜ ꯁꯤꯡꯍ
ꯄꯥꯛ ꯁꯟꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯔꯤꯕ ꯃꯐꯝ ꯑꯃꯅꯣꯖꯜ ꯄꯨꯟꯅꯕ ꯋꯥꯒꯤ ꯎꯌꯨꯡꯅꯣꯖꯜ ꯄꯨꯟꯗꯨꯅ ꯁꯦꯝꯕ