IMPHAL, MONDAY, MARCH 07, 2016 egiFyskq, WkTjlExg 28 eg wkEq, akmg\k sbAKgi 3413 obT\lE mkEwkB HUEIYEN LANPAO

2 ꯂꯧꯎꯁꯤꯡꯎꯒꯤ ꯀꯥꯈꯜ
ꯃꯦꯛ TE ꯃꯅꯤꯄꯨꯔ ꯊꯕꯛ ꯐꯪꯗ꯭ꯔꯤꯕ ꯅꯍꯥꯔꯣꯜꯁꯤꯡꯅ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯂꯧꯍꯧꯁꯤ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯊꯕꯛꯐꯪꯇ꯭ꯔꯤꯕ ꯅꯍꯥꯔꯣꯜꯁꯤꯡꯕꯨ ꯊꯕꯛ ꯄꯤꯅꯅꯕꯒꯤꯗꯃꯛ ꯄ꯭ꯔꯥꯏꯝ ꯃꯤꯅꯤꯁꯇꯔ ꯅꯔꯦꯟꯗ꯭ꯔ ꯃꯣꯗꯤꯅ ꯂꯧꯈꯠꯂꯤꯕ ꯁꯤꯡꯊꯥꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯕ
ꯄ꯭ꯔꯣꯖꯦꯛ ꯈꯔꯗꯤ ꯃꯦꯛ TE ꯏꯟꯗꯤꯌꯥ, ꯁ꯭ꯇꯥꯔꯠ ꯑꯞ ꯏꯟꯗꯤꯌꯥ, ꯁ꯭ꯇꯦꯟꯗ ꯑꯞ
ꯏꯟꯗꯤꯌꯥꯅꯆꯤꯡꯕꯅꯤ꯫ ꯁꯦꯟꯇꯔꯒꯤ ꯊꯧꯁꯤꯜ ꯑꯁꯤ ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯄꯨꯁꯤꯜꯂꯗꯨꯅ ꯆꯤꯐ
ꯃꯤꯅꯤꯁꯇꯔ ꯑꯣꯀ꯭ꯔꯝ ꯏꯕꯣꯕꯤ ꯑꯃꯗꯤ ꯀꯃꯔꯁ ꯑꯦꯟꯗ ꯏꯟꯗꯁꯇ꯭ꯔꯤ ꯃꯤꯅꯤꯁꯇꯔ
ꯒꯣꯕꯤꯟꯗꯥꯁ ꯀꯣꯟꯊꯧꯖꯝꯅ ꯃꯦꯛ TE ꯃꯅꯤꯄꯨꯔ ꯍꯥꯏꯗꯨꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯊꯕꯛ ꯐꯪꯗ꯭ꯔꯤꯕ
ꯅꯍꯥꯔꯣꯜꯁꯤꯡꯗ ꯊꯕꯛ ꯄꯤꯅꯅꯕ ꯊꯧꯁꯤꯜ ꯑꯃ ꯁꯦꯝꯈ꯭ꯔꯦ꯫ ꯍꯥꯏꯔꯤꯕ ꯊꯧꯁꯤꯜ ꯑꯁꯤ ꯃꯃꯥꯡ
ꯆꯍꯤꯒꯤ ꯅꯚꯦꯝꯕꯔ 26 ꯇ ꯆꯤꯐ ꯃꯤꯅꯤꯁꯇꯔ ꯑꯣꯀ꯭ꯔꯝ ꯏꯕꯣꯕꯤꯅ ꯏꯝꯐꯥꯂꯒꯤ ꯁꯤꯇꯤ
ꯀꯟꯚꯦꯟꯁꯟ ꯁꯦꯟꯇꯔꯗ ꯃꯦꯛ TE ꯃꯅꯤꯄꯨꯔ ꯐꯣꯔ ꯏꯝꯄ꯭ꯂꯣꯏꯃꯦꯟꯠ ꯖꯦꯅꯔꯦꯁꯟ
ꯍꯥꯏꯅ ꯃꯤꯡꯊꯣꯟꯗꯨꯅ ꯍꯧꯗꯣꯛꯈꯤ꯫ ꯊꯧꯔꯝ ꯑꯗꯨꯗ ꯆꯤꯐ ꯒꯦꯁꯠ ꯑꯣꯏꯅ ꯁꯔꯨꯛ ꯌꯥꯈꯤꯕ ꯆꯤꯐ
ꯃꯤꯅꯤꯁꯇꯔ ꯑꯣꯀ꯭ꯔꯝ ꯏꯕꯣꯕꯤꯅ ꯐꯣꯡꯗꯣꯛꯈꯤꯕ ꯃꯔꯨꯑꯣꯏꯕ ꯋꯥꯐꯝ ꯈꯔꯗꯤ ꯊꯕꯛ ꯐꯪꯗ꯭ꯔꯤꯕ
ꯅꯍꯥꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ ꯊꯕꯛ ꯄꯤꯅꯅꯕ ꯍꯣꯠꯅꯕ ꯍꯥꯏꯕꯁꯤ ꯌꯥꯝꯅ ꯃꯔꯨꯑꯣꯏꯕ ꯑꯃꯅꯤ꯫

ꯍꯤꯔꯝ ꯑꯁꯤ ꯂꯩꯉꯥꯛꯀꯤꯁꯨ ꯌꯥꯝꯅ ꯀꯣꯛ ꯁꯥꯕ ꯑꯃꯅꯤ꯫ ꯑꯗꯨꯕꯨ, ꯃꯤꯄꯨꯝ ꯈꯨꯗꯤꯡꯃꯛ
ꯂꯩꯉꯥꯛꯀꯤ ꯊꯕꯛ ꯄꯤꯕ ꯍꯥꯏꯕꯁꯤ ꯑꯣꯏꯊꯣꯛꯄ ꯋꯥꯒꯗꯕ ꯑꯃꯅꯤ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯁ꯭ꯇꯦꯠ
ꯑꯁꯤꯒꯤ ꯑꯣꯟꯇ꯭ꯔꯄ꯭ꯔꯦꯅꯤꯌꯔꯁꯤꯡ ꯄꯨꯛꯅꯤꯡ ꯊꯧꯒꯠꯇꯨꯅ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯗ ꯊꯕꯛ
ꯄꯤꯅꯅꯕ ꯍꯣꯠꯅꯍꯟꯕ ꯇꯥꯏ ꯍꯥꯏꯅ ꯐꯣꯡꯗꯣꯛꯈꯤ꯫ ꯇꯁꯦꯡꯅꯃꯛꯁꯨ ꯃꯅꯤꯄꯨꯔꯗ ꯄꯤꯛꯄ
ꯅꯠꯇ꯭ꯔꯒ ꯆꯥꯎꯕ ꯍꯥꯏꯕꯗꯨꯅ ꯑꯃ ꯑꯣꯏꯔꯒ ꯑꯣꯟꯇ꯭ꯔꯄ꯭ꯔꯦꯅꯤꯌꯔ ꯀꯌꯥ ꯊꯣꯔꯛꯄ ꯍꯧꯔꯦ꯫

ꯃꯈꯣꯏꯒꯤ ꯃꯈꯥꯗ ꯃꯤꯑꯣꯏ ꯆꯥ ꯀꯌꯥ ꯊꯕꯛ ꯄꯤꯔꯦ꯫ ꯊꯕꯛ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯌꯥꯝꯅ ꯄꯤꯔꯤꯕ
ꯑꯣꯟꯇ꯭ꯔꯄ꯭ꯔꯅꯤꯌꯔꯁꯤꯡꯒꯤ ꯃꯅꯨꯗ ꯑꯩꯆ ꯚꯤ ꯑꯦꯁ (ꯍꯨꯏꯗ꯭ꯔꯣꯝ ꯕꯀ꯭ꯔꯝ ꯁꯤꯡꯍ),
ꯕꯕꯤꯅꯥ ꯗꯥꯏꯒꯅꯣꯁꯇꯤꯛ ꯁꯦꯟꯇꯔ ꯑꯃꯁꯨꯡ ꯍꯣꯇꯦꯜ ꯀ꯭ꯂꯥꯁꯤꯛꯅꯆꯤꯡꯕ ꯂꯤꯡꯈꯠꯂꯤꯕ
ꯗꯥ. ꯙꯕꯂꯤꯅꯆꯤꯕꯡ ꯃꯃꯤꯡ ꯄꯟꯕ ꯌꯥꯏ꯫ ꯃꯈꯣꯏꯅ ꯊꯕꯛ ꯐꯪꯗꯕ ꯅꯍꯥꯔꯣꯜꯁꯤꯡꯗ ꯊꯕꯛ
ꯄꯤꯔꯤꯕ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏꯒꯤ ꯁꯥꯔꯚꯤꯁꯁꯤꯡ ꯂꯩꯉꯥꯛꯅ ꯃꯁꯛ ꯈꯪꯕ ꯆꯨꯝꯃꯤ꯫ ꯃꯤꯌ
ꯥꯝꯅꯁꯨ ꯃꯈꯣꯏꯕꯨ ꯌꯣꯛꯈꯠꯄ ꯃꯊꯧ ꯇꯥꯏ꯫ ꯌꯩꯈꯥꯏ ꯊꯤꯟꯒꯥꯏꯕ ꯑꯃꯁꯨꯡ ꯑꯌꯦꯠ ꯑꯄꯟ \

ꯥꯝꯅ ꯇꯣꯏꯅ ꯄꯤꯔꯕꯗꯤ ꯅꯤꯡꯕꯀꯥꯏꯔꯛꯇꯨꯅ ꯃꯈꯣꯏꯒꯤ ꯊꯕꯛ ꯊꯧꯔꯝꯁꯤꯡ ꯂꯦꯞꯈ꯭ꯔꯕꯗꯤ
ꯃꯗꯨꯗ ꯃꯥꯡꯖꯒꯗꯧꯔꯤꯕꯗꯨ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯃꯤꯌꯥꯝꯅꯤ꯫ ꯉꯁꯤꯗꯒꯤ ꯆꯍꯤ 20ꯒꯤ ꯃꯃꯥꯡꯗ
ꯃꯅꯤꯄꯨꯔꯒꯤ ꯁꯦꯟꯃꯤꯠꯂꯣꯟꯒꯤ ꯐꯠꯚꯝ ꯐꯒꯠꯍꯟꯅꯕ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯊꯧꯁꯤꯜ ꯀꯌ
ꯥꯃꯔꯨꯝ ꯁꯦꯝꯂꯝꯃꯤ꯫ ꯊꯧꯁꯤꯜꯁꯤꯡ ꯑꯗꯨꯒꯤ ꯃꯈꯥꯗ ꯃꯦꯅꯤꯇ꯭ꯔꯣꯟ, ꯁ꯭ꯄꯥꯏꯅꯤꯡ ꯃꯤꯜ,
ꯈꯟꯁꯥꯔꯤ ꯁꯨꯒꯔ ꯃꯤꯜ, ꯍꯨꯟꯗꯨꯡꯒꯤ ꯁꯤꯃꯦꯟꯠ ꯄ꯭ꯂꯥꯟꯠ, ꯁꯥꯏꯀꯜ ꯑꯦꯁꯦꯝꯕꯜ, ꯇꯤ
ꯁ꯭ꯇꯦꯠ, ꯔꯕꯔ ꯄ꯭ꯂꯥꯟꯇꯦꯁꯟ, ꯀꯦꯁꯣꯅꯠ ꯐꯥꯝ, ꯕꯦꯝꯕꯣ ꯆꯤꯞꯄꯤꯡ ꯄ꯭ꯂꯥꯟꯠ, ꯃꯅꯤꯗꯀꯣ,
ꯕꯟꯁꯄꯥꯠ ꯐꯦꯛꯇꯔꯤꯅꯆꯤꯕꯡ ꯄꯕ꯭ꯂꯤꯛ ꯑꯟꯗꯔꯇꯦꯛꯀꯤꯡ ꯀꯌꯥꯃꯔꯨꯝ ꯂꯩꯔꯝꯃꯤ꯫

ꯍꯥꯏꯔꯤꯕ ꯄꯕ꯭ꯂꯤꯛ ꯑꯟꯗꯔꯇꯦꯛꯀꯤꯡꯁꯤꯡ ꯑꯗꯨ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯅꯍꯥ ꯀꯌꯥꯗ ꯊꯕꯛ
ꯄꯤꯒꯅꯤ ꯍꯥꯏꯕꯒꯤ ꯊꯥꯖꯕꯒ ꯂꯣꯏꯅꯅ ꯂꯤꯡꯈꯠꯂꯝꯕꯅꯤ꯫ ꯑꯗꯨꯕꯨ, ꯊꯧꯁꯤꯜ ꯁꯣꯏꯕ ꯑꯃꯁꯨꯡ
ꯄꯣꯂꯤꯇꯤꯀꯦꯂꯒꯤ ꯑꯣꯏꯕ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯈꯔꯈꯛꯇ ꯃꯥꯏꯑꯣꯟ ꯊꯝꯂꯝꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ
ꯑꯃꯐꯥꯎꯕ ꯍꯤꯡꯈꯤꯗꯦ꯫ ꯃꯁꯤꯗꯒꯤ ꯍꯦꯟꯗꯣꯛꯂꯗꯨꯅ ꯖꯄꯥꯟꯒꯤ ꯁꯦꯟꯊꯪ ꯃꯈꯥꯗ ꯂꯨꯄꯥ
ꯀ꯭ꯔꯣꯔ ꯀꯌꯥ ꯍꯩꯊꯗꯨꯅ ꯄꯥꯏꯈꯠꯂꯝꯕ ꯁꯦꯔꯤꯀꯜꯆꯔ ꯄ꯭ꯔꯣꯖꯦꯛ ꯂꯩꯉꯥꯛꯅ ꯍꯥꯠꯇꯣꯛꯈ꯭ꯔꯦ꯫

ꯃꯗꯨꯒꯤ ꯀꯥꯟꯅꯕ ꯅꯤꯡꯊꯤꯅ ꯂꯧꯔꯝꯂꯒꯗꯤ ꯃꯅꯤꯄꯨꯔ ꯈꯥꯏꯕꯣꯛ ꯑꯃ ꯊꯕꯛ ꯄꯤꯔꯝꯕ \

ꯥꯕꯅꯤ꯫ ꯐ꯭ꯔꯟꯁꯀꯤ ꯇꯦꯛꯅꯣꯂꯣꯖꯤ ꯑꯃꯁꯨꯡ ꯇꯦꯡꯕꯥꯡ ꯂꯧꯔꯒ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯗ ꯄꯥꯏꯈꯠꯂꯤꯕ
ꯁꯤꯋꯦꯖ ꯄ꯭ꯔꯣꯖꯦꯛꯁꯨ ꯂꯨꯄꯥ ꯀ꯭ꯔꯣꯔ ꯂꯤꯁꯤꯡ ꯀꯌꯥ ꯍꯩꯊꯈ꯭ꯔꯕ ꯃꯇꯨꯡꯗ ꯃꯥꯡꯈꯤꯕ ꯌꯥꯅ ꯂꯩꯔꯦ꯫

ꯉꯝꯅꯃꯛ ꯂꯩꯉꯥꯛꯅ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯗꯕꯗꯒꯤ ꯑꯃꯁꯨꯡ ꯁꯦꯟꯖꯥ ꯊꯨꯝꯖꯥꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ
ꯇꯨꯝꯈ꯭ꯔꯕ ꯇꯨꯡꯗ ꯃꯅꯤꯄꯨꯔ ꯂꯩꯉꯥꯛꯅ ꯍꯧꯖꯤꯛꯇ ꯋꯥꯈꯜ ꯇꯥꯔꯛꯄꯗꯧꯅ ꯃꯦꯛ TE ꯃꯅꯤꯄꯨꯔ
ꯑꯃꯨꯛ ꯄꯥꯏꯈꯠꯄ ꯍꯧꯔꯛꯂꯦ꯫ ꯃꯁꯤꯁꯨ ꯆꯤꯟꯒ ꯈꯨꯠꯀ ꯃꯥꯟꯅꯒꯗꯧꯔꯤꯕ꯭ꯔ ꯅꯠꯇ꯭ꯔꯒ ꯃꯤꯈ ꯃꯌ
ꯥꯒꯤ ꯅꯝꯊꯥꯛ ꯇꯧꯕ ꯁ꯭ꯀꯤꯝ ꯑꯣꯏꯒꯗꯧꯔꯤꯕ꯭ꯔ ꯍꯥꯏꯕ ꯇꯝꯕ ꯉꯝꯗ꯭ꯔꯤ꯫ ꯑꯗꯨꯝꯃꯛꯄꯨ ꯃꯁꯤꯒꯨꯝꯕ
ꯁ꯭ꯀꯤꯝ/ ꯄ꯭ꯔꯣꯖꯦꯛ ꯑꯁꯤꯅꯠꯇꯅ ꯃꯅꯤꯄꯨꯔ ꯊꯕꯛ ꯐꯪꯗ꯭ꯔꯤꯕ ꯅꯍꯥꯔꯣꯜꯁꯤꯡ ꯊꯕꯛ ꯄꯤꯅꯅꯕ
ꯄꯥꯝꯕꯩ ꯂꯩꯇ꯫ ꯊꯧꯔꯥꯡ ꯑꯁꯤꯒꯤ ꯃꯈꯥꯗ ꯏꯟꯗꯁꯇ꯭ꯔꯤꯑꯦꯜ ꯑꯦꯟꯗ ꯏꯟꯚꯦꯁꯃꯦꯟꯠ ꯄꯣꯂꯤꯁꯤ
ꯁꯦꯝꯂꯛꯀꯗꯧꯔꯤ, ꯅꯣꯔꯊ TKG ꯏꯟꯗꯁꯇ꯭ꯔꯤꯑꯦꯜ ꯑꯦꯟꯗ ꯏꯟꯚꯦꯁꯠꯃꯦꯟꯠ ꯄꯣꯂꯤꯁꯤ
ꯁꯦꯝꯗꯨꯅ ꯂꯩꯔꯦ꯫ ꯅꯣꯔꯊ ꯏꯁꯇ꯭ꯔꯟ ꯔꯤꯖꯅꯦꯜ ꯇꯦꯛꯁꯇꯥꯏꯜ ꯄ꯭ꯔꯃꯣꯁꯟ ꯁ꯭ꯀꯤꯝ ꯑꯃꯁꯨꯡ
ꯅꯦꯁꯅꯦꯜ ꯍꯦꯟꯗꯂꯨꯝ ꯗꯤꯚꯦꯂꯞꯃꯦꯟꯠ ꯄ꯭ꯔꯣꯒ꯭ꯔꯥꯝꯅꯆꯤꯡꯕ ꯄꯥꯏꯈꯠꯄ ꯍꯧꯔꯦ꯫ ꯏꯟꯗꯁꯇ꯭ꯔꯤ
ꯃꯆꯥ ꯃꯆꯥ ꯇꯧꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗ ꯂꯩꯉꯥꯛꯅ ꯁꯦꯜ ꯊꯥꯗꯅꯕ ꯊꯧꯁꯤꯜ ꯌꯥꯠꯄ ꯍꯧꯦ꯫ ꯁꯕꯁꯤꯗꯤ ꯁꯔꯨꯛ
ꯌꯥꯝꯗ꯭ꯔꯕꯁꯨ ꯃꯥꯏꯀ꯭ꯔꯣ ꯏꯟꯇꯔꯄ꯭ꯔꯥꯏꯖꯦꯖꯁꯤꯡ, ꯁ꯭ꯃꯣꯜ ꯏꯟꯇꯔꯄ꯭ꯔꯥꯏꯖꯦꯖꯁꯤꯡ, ꯃꯦꯗꯤꯌꯝ
ꯑꯃꯁꯨꯡ ꯂꯥꯔꯖ ꯏꯟꯇꯔꯄ꯭ꯔꯥꯏꯖꯦꯁꯀꯤꯗꯃꯛ ꯁꯦꯜ ꯊꯥꯗꯒꯗꯧꯔꯤꯕꯁꯤ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯊꯕꯛ
ꯐꯪꯗ꯭ꯔꯤꯕ ꯅꯍꯥꯔꯣꯜꯁꯤꯡꯅ ꯀꯥꯟꯅꯕ ꯂꯧꯍꯧꯒꯗꯕꯅꯤ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯄꯟꯖꯅꯤꯡꯕ ꯋꯥꯐꯝꯗꯤ ꯁꯨꯗꯅ
ꯅꯨꯡꯉꯥꯏꯒꯅꯤ ꯈꯟꯕ, ꯃꯤꯒꯤ ꯐꯨꯔꯤꯠꯈꯥꯎ ꯌꯦꯡꯂꯒ ꯋꯥ ꯉꯥꯡꯕꯒꯤ ꯃꯇꯧ ꯇꯣꯛꯂꯁꯤ꯫ ꯑꯩꯈꯣꯏ ꯄꯨꯟꯅ
ꯍꯣꯠꯅꯃꯤꯟꯅꯁꯤ, ꯏꯁꯥꯒꯤ ꯁꯦꯟꯊꯣꯛ ꯂꯝꯕꯤ ꯁꯦꯝꯖꯕꯇ ꯅꯠꯇꯅ ꯃꯅꯤꯄꯨꯔ ꯆꯥꯎꯈꯠꯍꯟꯅꯕ
ꯍꯣꯠꯅꯕꯗ ꯑꯩꯈꯣꯏ ꯄꯨꯝꯅꯃꯛ ꯁꯔꯥꯨꯛ ꯌꯥꯔꯁꯤ ꯍꯥꯏꯖꯅꯤꯡꯏ꯫

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ

...ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ...

ꯏꯀꯥꯏ ꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯈ꯭ꯋꯥꯏꯔꯝꯕꯟ ꯀꯩꯊꯦꯜꯗ ꯇ꯭ꯔꯥꯐꯤꯛ
ꯖꯥꯝ ꯑꯣꯏꯔꯛꯄꯒꯤ ꯀꯩꯊꯦꯜ ꯃꯅꯨꯡꯗ
ꯄꯥꯔꯛ ꯒꯥꯔꯤ ꯀꯥꯔꯛ ꯇꯧꯍꯟꯗꯅꯕꯗ
ꯊꯥꯡꯒꯥꯜ ꯑꯃꯗꯤ ꯄꯥꯎꯅ ꯀꯩꯊꯦꯜꯗ ꯗꯨꯀꯥꯟ
ꯐꯝꯂꯤꯕꯁꯤꯡꯅ ꯄꯣꯠ ꯁꯤꯠꯄ ꯋꯥꯠꯂꯦ
ꯍꯥꯏꯔꯤꯕ ꯑꯃꯗꯤ ꯃꯤꯌꯥꯝꯅ ꯄꯍꯠ ꯂꯩꯔꯒ
ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟ ꯇꯧꯕꯗ ꯈꯨꯗꯣꯡꯆꯥꯗꯕ
ꯃꯥꯌꯣꯛꯅꯔꯤꯕꯁꯤ ꯀꯣꯛꯅꯕ ꯃꯅꯤꯄꯨꯔ
ꯂꯩꯉꯥꯛꯅ ꯊꯤꯐꯝ ꯊꯣꯛꯏ꯫ ꯇ꯭ꯔꯥꯈꯤꯛ
ꯖꯥꯝ ꯍꯦꯟꯒꯠꯂꯛꯄꯗꯒꯤ ꯃꯊꯛꯇ
ꯍꯥꯏꯖꯈ꯭ꯔꯤꯕ ꯄꯣꯠ ꯁꯤꯠꯇꯕ ꯑꯃꯗꯤ ꯂꯩꯔꯕ
ꯃꯇꯨꯡꯗ ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟꯒꯤ ꯃꯇꯥꯡꯗ
ꯈꯨꯗꯣꯡꯆꯥꯗꯕꯁꯤꯡ ꯑꯁꯤ ꯊꯣꯔꯛꯄꯅꯤ꯫

ꯃꯔꯝ ꯍꯥꯏꯔꯤꯕ ꯃꯐꯝꯁꯤꯡ ꯑꯁꯤꯗ
ꯇ꯭ꯔꯥꯐꯤꯛ ꯚꯣꯂꯨꯝ ꯍꯟꯊꯍꯟꯅꯕ ꯂꯩꯉꯥꯛꯇꯅ
ꯁꯤꯟꯕꯤꯐꯝ ꯊꯣꯛꯄ ꯊꯃꯛꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ
ꯁꯤꯟꯕꯤꯔꯒ ꯅꯥꯏꯠ ꯃꯥꯔꯀꯦꯇꯤꯡ ꯁꯤꯁꯇꯦꯝ
ꯁꯦꯝꯕꯤꯗꯨꯅ ꯗꯨꯀꯥꯟꯁꯤꯡ ꯑꯁꯤ ꯅꯨꯃꯤꯗꯥꯡꯒꯤ
ꯄꯨꯡ 10/11 ꯐꯥꯎꯕ ꯍꯥꯡꯍꯜꯂꯕꯗꯤ ꯇ꯭ꯔꯥꯐꯤꯛ
ꯚꯣꯂꯨꯝꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯟꯊꯒꯅꯤ ꯍꯥꯏꯅ
ꯈꯜꯂꯤ꯫ ꯂꯣꯏꯅꯅ ꯅꯣꯡꯃꯥꯏꯖꯤꯡ ꯅꯨꯃꯤꯠꯇ
ꯗꯨꯀꯥꯟꯁꯤꯡ ꯊꯣꯡ ꯂꯣꯟꯅꯔꯤꯕ ꯑꯁꯤꯁꯨ
ꯑꯇꯣꯞꯄ ꯅꯨꯃꯤꯠ ꯑꯃꯗ ꯑꯣꯟꯊꯣꯛꯂꯕꯁꯨ
ꯇ꯭ꯔꯥꯐꯤꯛ ꯚꯣꯂꯨꯝ ꯍꯟꯊꯍꯟꯕꯗ ꯃꯇꯦꯡ
ꯄꯥꯡꯒꯅꯤ ꯍꯥꯏꯅ ꯈꯜꯂꯤ꯫

ꯀꯩꯊꯦꯜ ꯃꯅꯨꯡꯒꯤ ꯑꯀꯣꯏꯕꯗ ꯁ꯭ꯇ꯭ꯔꯤꯠ
ꯚꯦꯟꯗꯔ ꯐꯝꯂꯤꯕꯁꯤꯡꯕꯨ ꯇ꯭ꯔꯥꯐꯤꯛ
ꯄꯨꯂꯤꯁ, ꯁꯤꯇꯤ ꯄꯨꯂꯤꯁ ꯑꯃꯁꯨꯡ ꯏꯝꯐꯥꯜ
ꯃ꯭ꯌꯨꯅꯤꯁꯤꯄꯥꯂꯤꯇꯤꯅ ꯀꯟꯇ꯭ꯔꯣꯜ ꯇꯧꯕ
ꯉꯝꯗꯕꯗꯧꯅ ꯇꯧꯔꯤꯕꯁꯤꯁꯨ ꯂꯩꯉꯥꯛꯅ
ꯁꯨꯛꯐꯝ ꯐꯝꯕ ꯋꯥꯔꯣꯏ ꯍꯥꯏꯗꯨꯅ ꯊꯤꯡꯂꯕꯗꯤ
ꯃꯁꯤꯁꯨ ꯇ꯭ꯔꯥꯐꯤꯛ ꯚꯣꯂꯨꯝ ꯍꯟꯊꯍꯟꯕꯗ
ꯑꯆꯧꯕ ꯃꯇꯦꯡ ꯑꯣꯏꯒꯅꯤ꯫ ꯇ꯭ꯔꯥꯐꯤꯛ
ꯄꯨꯂꯤꯁꯅ ꯇꯥꯟꯕꯣꯏ ꯇꯥꯟꯗꯕꯣꯏ ꯇꯧꯕꯒꯤ
ꯃꯍꯨꯠꯇ ꯅꯨꯡꯊꯤꯜꯒꯤ ꯃꯇꯝꯗ ꯁ꯭ꯇ꯭ꯔꯤꯠ
ꯚꯦꯟꯗꯔꯁꯤꯡ ꯑꯁꯤ ꯁꯨꯛꯐꯝ ꯐꯝꯍꯟꯗꯅ
ꯅꯨꯃꯤꯗꯥꯡꯒꯤ ꯃꯇꯝꯗ ꯌꯥꯝꯅ ꯀꯣꯝꯅ
ꯐꯝꯍꯟꯜꯂꯕꯗꯤ ꯏꯝꯐꯥꯜꯒꯤ ꯑꯀꯣꯏꯕꯗ
ꯂꯩꯔꯤꯕ ꯃꯤꯁꯤꯡꯅ ꯅꯨꯃꯤꯗꯥꯡꯗ ꯁꯣꯞꯄꯤꯡ
ꯇꯧꯕꯒꯤ ꯍꯩꯅꯕꯤ ꯁꯣꯏꯗꯅ ꯂꯥꯛꯀꯅꯤ꯫ ꯃꯔꯝ
ꯑꯁꯤꯅ ꯂꯩꯉꯥꯛꯅ ꯗꯨꯀꯥꯟ ꯐꯝꯂꯤꯕꯁꯤꯡꯒ,
ꯑꯈꯪ-ꯑꯍꯩ ꯃꯤꯌꯥꯝꯒ ꯐꯝꯃꯤꯟꯅꯔꯗꯨꯅ ꯃꯤꯌ
ꯥꯝꯒꯤꯗꯃꯛ ꯌꯦꯡꯕꯤꯗꯨꯅ ꯑꯊꯨꯕ ꯃꯇꯝꯗ
ꯋꯥꯔꯣꯏꯁꯤꯟ ꯇꯧꯅꯅꯕ ꯍꯥꯠꯅꯕꯤꯌꯨ꯫

ꯑꯗꯣꯝꯒꯤ ꯅꯤꯡꯊꯦꯝꯆꯥ ꯁꯅꯥꯖꯥꯎꯕ, ꯋꯥꯡꯈꯩ
ꯅꯨꯃꯤꯗꯥꯡꯗ ꯗꯨꯀꯥꯟ ꯍꯥꯡꯍꯜꯂꯕꯗꯤ ꯇ꯭ꯔꯥꯐꯤꯛ
ꯖꯥꯝ ꯑꯣꯏꯕ ꯍꯟꯊꯍꯟꯒꯅꯤ
ꯂꯩꯕꯥꯛꯇꯒꯤ ꯄꯣꯛꯂꯛꯄ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯁꯤꯡ ꯂꯥꯛꯁꯤꯟꯕ
ꯂꯩꯕꯥꯛ ꯂꯩꯁꯥꯒꯤ ꯄꯣꯛꯍꯜꯂꯛꯄ ꯄꯥꯝꯕꯤꯒꯤ
ꯂꯥꯏꯅꯥꯁꯤꯡꯕꯨ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯃꯀꯜ ꯃꯌꯥꯒꯤ
ꯄꯥꯝꯕꯩꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯩ꯫ ꯄꯥꯝꯕꯤꯁꯤꯡꯗꯨꯒꯤ ꯃꯅꯨꯡꯗ
ꯀꯥꯂꯦꯟꯗ ꯂꯩꯆꯪ ꯂꯩꯅ ꯈꯣꯏꯗꯣꯛꯇꯨꯅ ꯂꯩꯕꯥꯛꯄꯨ ꯅꯨꯡꯁꯥ
ꯆꯥꯍꯟꯕ, ꯄ꯭ꯂꯥꯁꯇꯤꯛ ꯁꯤꯊꯅ ꯈꯨꯝꯖꯤꯟꯗꯨꯅ ꯂꯩꯕꯥꯛ
ꯂꯩꯁꯥꯕꯨ ꯁꯥꯕꯒꯤ ꯆꯥꯡ ꯍꯦꯟꯒꯠꯍꯟꯗꯨꯅ ꯂꯩꯕꯥꯛꯇ
ꯂꯩꯖꯔꯝꯕ ꯇꯤꯟꯀꯨꯞꯁꯤꯡ ꯍꯥꯠꯇꯣꯛꯄ, ꯃꯅꯤꯜ
ꯑꯣꯏꯅ ꯊꯥꯗꯣꯛꯄ ꯉꯃꯕ ꯍꯤꯗꯥꯛ ꯂꯩꯕꯥꯛꯇ
ꯆꯥꯏꯊꯣꯛꯄꯕ (KOTM ꯐ꯭ꯌꯨꯃꯤꯒꯦꯁꯟ), ꯃꯈꯜ
ꯀꯌꯥꯒꯤ ꯍꯤꯗꯥꯛ ꯆꯥꯏꯊꯣꯛꯇꯨꯅ ꯃꯈꯜ ꯀꯌꯥꯒꯤ
ꯍꯤꯡꯀꯨꯞꯁꯤꯡ (ꯃꯥꯏꯀ꯭ꯔꯣ ꯑꯣꯔꯒꯥꯅꯤꯖꯝꯁ)
ꯍꯥꯠꯇꯣꯛꯄ ꯑꯃꯁꯨꯡ ꯄꯥꯝꯕꯤꯗ ꯃꯥꯡꯍꯜꯂꯤꯕ
ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯀꯣꯛꯐꯥꯏ, ꯕꯦꯛꯇꯣꯔꯤꯌꯥ,
ꯅꯦꯃꯥꯇꯣꯗ ꯑꯃꯁꯨꯡ ꯇꯤꯜꯁꯤꯡ ꯍꯥꯠꯇꯣꯛꯄ ꯉꯝꯕ
ꯀꯣꯛꯐꯥꯏꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯕꯁꯤ ꯃꯔꯨ ꯑꯣꯏꯅ ꯑꯌ
ꯥꯝꯕ ꯂꯧꯐꯝꯁꯤꯡꯗ ꯆꯠꯊꯅꯔꯤ꯫

ꯊꯧꯔꯝꯁꯤꯡꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ
ꯍꯦꯟꯅ ꯐꯕ ꯑꯃꯁꯨꯡ ꯑꯀꯣꯏꯕꯒꯤ ꯐꯤꯚꯝꯗ
ꯑꯀꯥꯏ ꯄꯤꯗꯕꯁꯤ ꯅꯨꯡꯁꯥ ꯆꯥꯍꯟꯕꯁꯤꯅꯤ꯫ ꯑꯗꯨꯕꯨ
ꯆꯥꯎꯈꯠꯂꯕ ꯂꯧꯎ ꯁꯤꯡꯎꯒꯤ ꯂꯝꯗꯗꯤ ꯂꯥꯏꯅ
ꯊꯣꯛꯍꯟꯕ ꯉꯝꯕ ꯀꯣꯛꯐꯥꯏ, ꯕꯦꯛꯇꯣꯔꯤꯌꯥ,
ꯃꯦꯃꯥꯇꯣꯗ ꯑꯃꯁꯨꯡ ꯂꯩꯕꯥꯛꯇ ꯂꯩꯕ ꯇꯤꯜꯁꯤꯡꯕꯨ
ꯍꯥꯠꯄ ꯉꯝꯕ ꯀꯣꯛꯥꯏ, ꯕꯦꯛꯇꯣꯔꯤꯌꯥꯅꯆꯤꯡꯕ
ꯁꯤꯖꯤꯟꯅꯕꯁꯤ ꯌꯥꯝꯕ ꯄꯥꯝꯅ ꯆꯠꯊꯅꯔꯤ꯫

ꯃꯇꯝꯁꯤꯒ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯍꯦꯟꯅ ꯆꯥꯟꯅꯕ ꯊꯧꯔꯝ
ꯑꯃ ꯑꯣꯏꯔꯤ꯫

ꯍꯦꯟꯅ ꯄꯥꯝꯅꯔꯛꯄꯒꯤ ꯃꯔꯝ: ꯂꯥꯏꯅ ꯇꯤꯜꯅ
ꯉꯥꯛꯊꯣꯛꯅꯕ ꯍꯤꯗꯥꯛ ꯂꯥꯡꯊꯛ ꯁꯤꯖꯤꯟꯅꯕ
ꯑꯃꯁꯨꯡ ꯑꯇꯣꯞꯄ ꯎꯄꯥꯏꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯕꯅ
ꯍꯥꯠꯇꯣꯛꯅꯤꯡꯂꯤꯕ ꯃꯍꯤꯛ ꯃꯇꯥꯏꯗꯨꯈꯛ ꯈꯜꯂꯒ
ꯍꯥꯠꯇꯣꯛꯄ ꯉꯝꯗꯦ꯫ ꯃꯐꯝꯗꯨꯃꯛꯇꯗ ꯂꯩꯔꯤꯕ,
ꯂꯧꯎ-ꯁꯤꯡꯎꯕꯗ ꯀꯥꯟꯅꯔꯕ ꯍꯤꯡꯀꯨꯞꯁꯤꯡꯕꯨꯁꯨ
ꯍꯥꯠꯇꯣꯛꯈꯤꯒꯅꯤ꯫ ꯃꯥꯡꯖꯕ ꯀꯌꯥ ꯂꯩ꯫

ꯑꯗꯨꯃꯛꯄꯨ ꯀꯣꯛꯐꯥꯏ ꯑꯃꯁꯨꯡ ꯑꯇꯩ ꯑꯇꯣꯞꯄ
ꯍꯤꯡꯀꯨꯞꯁꯤꯡ ꯍꯥꯠꯄ ꯉꯝꯕ ꯀꯣꯛꯥꯏꯁꯤꯡ
ꯅꯦꯃꯥꯇꯣꯗꯁꯤꯡ, ꯕꯦꯛꯇꯣꯔꯤꯌꯥꯁꯤꯡ ꯑꯃꯁꯨꯡ
ꯑꯦꯛꯇꯤꯅꯣꯃꯥꯏꯁꯤꯇꯤꯁꯁꯤꯡ (ꯄꯥꯏꯑꯣꯂꯣꯖꯤꯀꯦꯜ
ꯀꯟꯇ꯭ꯔꯣꯜ ꯑꯖꯦꯟꯠꯁ) ꯁꯤꯖꯤꯟꯅꯔꯒꯗꯤ
ꯗꯔꯀꯥꯔꯒꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯁꯤꯖꯤꯟꯅꯕꯅꯤꯅ ꯃꯥꯡꯖꯕ
ꯂꯩꯔꯦ꯫ ꯇꯨꯡ ꯀꯥꯏꯅ ꯀꯥꯟꯅꯕ WIT! ꯆꯥꯡ ꯅꯦꯝꯕꯒꯤꯁꯨ
ꯅꯦꯝꯅ ꯋꯥꯡꯕꯒꯤꯁꯨ ꯋꯥꯡꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ
ꯄꯨꯃꯅꯃꯛꯀꯤ ꯀꯥꯟꯅꯕ WIT!

ꯈꯨꯗꯣꯡꯆꯥꯗꯕ: ꯈꯨꯗꯛꯀꯤ [Ote ꯀꯥꯟꯅꯕ
ꯄꯤꯕ ꯉꯝꯗꯦ꯫ ꯃꯐꯝ ꯑꯃꯁꯨꯡ ꯑꯏꯪ-ꯑꯁꯥ
ꯈꯦꯟꯅꯕꯒꯤ ꯃꯇꯨꯡ ꯏꯅꯅ ꯊꯥ ꯑꯃ ꯑꯅꯤꯗꯤ
ꯆꯪꯏ꯫ ꯑꯄꯥꯝꯕ ꯀꯜꯆꯔ ꯃꯈꯜ ꯈꯨꯗꯤꯡꯃꯛ
ꯂꯩꯊꯦꯜꯗ ꯂꯣꯏꯅ ꯐꯪꯕ ꯅꯠꯇꯦ꯫ ꯕꯥꯏꯑꯣ ꯀꯟꯇ꯭ꯔꯣꯜ
ꯑꯦꯟꯇꯦ ꯍꯥꯏꯅ ꯈꯪꯅꯔꯤꯕ, ꯄꯥꯝꯕꯤꯗ ꯑꯀꯥꯏꯕ
ꯄꯤꯕ ꯍꯤꯡꯀꯨꯞꯁꯤꯡ ꯍꯥꯠꯄ ꯉꯝꯕ ꯀꯥꯟꯅꯔꯕ
ꯍꯤꯡꯀꯨꯞꯁꯤꯡꯁꯤ ꯃꯥꯂꯦꯝꯒꯤ ꯑꯣꯏꯅ ꯂꯧꯎ-

ꯁꯤꯡꯎꯗ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯍꯤꯗꯥꯛꯁꯤꯡꯁꯤ
ꯆꯥꯗ ꯑꯃꯒꯤ ꯆꯥꯡꯗꯒꯤ ꯄꯪꯍꯦꯟ ꯍꯦꯟꯅ ꯍꯥꯏꯅ
ꯄꯥꯟꯔꯤ꯫ ꯃꯅꯤꯄꯨ ꯔꯗ ꯐꯪꯂꯤꯕ ꯃꯈꯜꯁꯤꯡꯁꯨ
ꯄꯪꯌꯥꯝ ꯌꯥꯝꯗꯦ꯫ ꯑꯄꯥꯝꯕ ꯀꯣꯛꯐꯥꯏ ꯃꯈꯜ
ꯂꯩꯅꯤꯡꯕ ꯃꯇꯝꯗ ꯂꯩꯕ ꯐꯪꯗꯦ꯫ ꯃꯁꯤꯒꯤ ꯃꯔꯃꯗꯤ
ꯂꯧꯃꯤꯁꯤꯡꯅ ꯂꯩꯅꯤꯡꯕꯒꯤ ꯆꯥꯡ ꯅꯦꯝꯕ ꯑꯃꯁꯨꯡ
ꯁꯦꯝꯂꯕ ꯍꯤꯗꯥꯛꯇꯨ ꯆꯍꯤ ꯑꯃꯗꯒꯤ ꯄꯪꯍꯦꯟ
ꯍꯦꯟꯅ ꯊꯝꯕ ꯌꯥꯗꯕꯁꯤꯅꯤ꯫

ꯊꯧꯔꯝꯁꯤꯅ ꯄꯤꯔꯤꯕ ꯀꯥꯟꯅꯕꯁꯤꯡ:

ꯂꯩꯕꯥꯛꯇ ꯂꯩꯖꯔꯝꯕ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯀꯣꯛꯐꯥꯏꯁꯤꯡ,
ꯕꯦꯛꯇꯣꯔꯤꯌꯥ, ꯑꯦꯛꯇꯤꯅꯣꯃꯥꯏꯁꯤꯇꯤꯁ ꯑꯃꯁꯨꯡ
ꯅꯦꯃꯥꯇꯣꯗꯅꯆꯤꯡꯕ ꯀꯌꯥꯕꯨ ꯑꯀꯣꯏꯕꯒꯤ ꯐꯤꯚꯝ
ꯁꯣꯛꯣꯟꯗꯅ ꯑꯃꯁꯨꯡ ꯀꯥꯟꯅꯔꯕ ꯍꯤꯡꯀꯨꯞ ꯀꯌ
ꯥꯁꯤꯡꯕꯨ ꯁꯣꯛꯍꯟꯗꯅ ꯍꯥꯠꯇꯣꯛꯄ ꯉꯝꯕꯁꯤꯕꯨ SD_

ꯥꯏꯗꯒꯤ ꯐꯕ ꯀꯥꯡꯂꯣꯟ ꯑꯃ [Ote ꯂꯧꯅꯔꯤ꯫

ꯑꯦꯟꯁꯥꯡ ꯅꯥꯄꯤ ꯀꯌꯥꯗ ꯇꯥꯔꯤꯕ ꯄꯥꯝꯕꯤ ꯃꯈꯣꯡ
ꯆꯦꯡꯁꯤꯟꯕꯤ ꯑꯃꯁꯨꯡ ꯈꯨꯏꯊꯕꯤ ꯂꯥꯏꯅ ꯊꯣꯛꯍꯜꯂꯤꯕ

Pythium, Fusarium s\kqb Trichoderma

ꯀꯩ. ꯀꯌꯥꯅ ꯍꯥꯠꯇꯣꯛꯍꯟꯕ ꯉꯝꯃꯤ꯫ ꯃꯁꯤꯒ
ꯃꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ

Gliocladium virens, Talaromyces

Flavus [aKbi Pythium oligandrum eKb

ꯂꯧꯃꯤꯁꯤꯡꯗ ꯀꯥꯟꯅꯕ wgjg!Pseudomonas

Fluorescens [aKbi Pseudomonas

putida ꯅꯆꯤꯡꯕ ꯕꯦꯛꯇꯣꯔꯤꯌꯥꯁꯤꯡꯅ ꯂꯩꯕꯥꯛꯇꯒꯤ
ꯄꯣꯛꯂꯛꯄ ꯂꯥꯏꯅꯁꯤꯡꯕꯨ ꯍꯟꯊꯍꯟꯕ ꯉꯝꯕꯇ
ꯅꯠꯇꯅ ꯐꯧꯒꯤ ꯕ꯭ꯂꯥꯁꯠ, ꯁꯦꯊꯔꯣꯏ ꯁꯤꯗꯂꯤꯡ
ꯕ꯭ꯂꯥꯏꯊ, ꯕ꯭ꯔꯥꯎꯟ ꯁ꯭ꯄꯣꯠꯅꯆꯤꯡꯕ ꯐꯥꯎꯕ ꯐꯍꯜꯂꯤ꯫

ꯄꯥꯝꯕꯤꯒꯤ ꯃꯈꯣꯡ ꯆꯦꯡꯁꯤꯟꯕꯒꯤ, ꯂꯐꯨꯒꯤ ꯈꯨꯏꯊꯕꯤ
ꯂꯥꯏꯅ ꯐꯍꯜꯂꯤ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯒ꯭ꯔꯣꯠ
ꯐꯦꯛꯇꯔ IAA ꯄꯨꯊꯣꯛꯇꯨꯅ ꯄꯥꯝꯕꯤꯒꯤ ꯁꯥꯍꯧ
ꯐꯍꯜꯂꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯀꯜꯆꯔꯁꯤ ꯒ꯭ꯔꯥꯝ 5-10 ꯐꯥꯎꯕ
ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯐꯨꯗꯤꯡꯗ ꯌꯥꯟꯁꯤꯜꯂꯒ ꯀꯥꯞꯊꯣꯛ
ꯆꯥꯏꯊꯣꯛꯄ ꯌꯥꯏ꯫

Paecilomyces lilanicus ek elakfOre

ꯊꯣꯛꯍꯟꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯤ ꯂꯥꯏꯅ ꯀꯌꯥꯕꯨ ꯐꯍꯜꯂꯤ꯫

ꯈꯨꯗꯝ [Ote ꯈꯥꯃꯦꯟꯒꯤ ꯔꯨꯠ ꯅꯣꯠ ꯅꯦꯃꯥꯇꯣꯗ ꯍꯥꯏꯅ
ꯂꯥꯏꯅꯥꯒꯤꯗꯃꯛ ꯍꯤꯗꯥꯛꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯔꯤ꯫

Beauveria bassiana okTe SIeq

ꯀꯣꯛꯐꯥꯏꯁꯤꯡꯅ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯇꯤꯜꯁꯤꯡꯗ

White muscadine

ꯍꯥꯏꯕ ꯂꯥꯏꯅ ꯊꯣꯛꯍꯟꯗꯨꯅ ꯇꯤꯜꯁꯤꯡ
ꯍꯥꯠꯇꯣꯛꯏ꯫ ꯃꯤꯑꯣꯏꯕꯗꯗꯤ ꯑꯀꯥꯏꯕ ꯄꯤꯗꯦ꯫

ꯀꯩꯊꯦꯜꯗ Larvocel ꯍꯥꯏꯅ ꯐꯥꯏ꯫ ꯄꯥꯝꯕꯤꯒꯤ
ꯃꯔꯥ ꯆꯥꯕꯤ, ꯃꯎ ꯍꯨꯠꯄꯤ ꯑꯃꯁꯨꯡ ꯑꯇꯩ ꯇꯤꯜ ꯀꯌ
ꯥꯕꯨ ꯍꯥꯠꯇꯣꯛꯏꯠ꯫ ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯈꯨꯗꯤꯡꯗ ꯒ꯭ꯔꯥꯝ
5-10 ꯐꯥꯎꯕ ꯌꯥꯟꯁꯤꯜꯂꯒ ꯀꯥꯞꯊꯣꯅꯄ ꯆꯥꯏꯊꯣꯛꯄ
ꯌꯥꯏ꯫

Varticilium lecanii, fgMKgi okGw

ꯉꯝꯕ ꯀꯣꯛꯐꯥꯏꯅꯤ꯫ ꯃꯀꯨ ꯊꯣꯠꯄ ꯂꯤꯜꯁꯤꯡ ꯈꯨꯗꯝ
ꯑꯣꯏꯅ ꯋꯥꯍꯤꯛ, ꯊ꯭ꯔꯤꯞꯁ, ꯃꯥꯏꯠ, ꯃꯤꯂꯤꯕꯒ, ꯍ꯭ꯋ
ꯥꯏꯠ ꯐ꯭ꯂꯥꯏ, ꯁ꯭ꯀꯦꯜ ꯏꯟꯁꯦꯀꯟꯆꯤꯡꯕ ꯄꯨꯝꯅꯃꯛ
ꯍꯥꯠꯄ ꯉꯝꯕ ꯀꯣꯛꯐꯥꯏꯅꯤ꯫ ꯀꯩꯊꯦꯜꯗ Vertical

ꯍꯥꯏꯅꯁꯨ WIT! ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯈꯨꯗꯤꯡꯗ Vertical

ꯒ꯭ꯔꯥꯝ 2.5-5 ꯐꯥꯎꯕ ꯌꯥꯟꯁꯤꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫

ꯑꯍꯦꯟꯕ ꯆꯥꯏꯊꯣꯛꯈꯤꯕ ꯁꯔꯨꯛꯁꯤꯡꯅ ꯂꯩꯕꯥꯛ
ꯂꯩꯁꯥꯗ ꯂꯩꯖꯗꯨꯅ ꯃꯈꯥ ꯇꯥꯅ ꯇꯤꯜꯁꯤꯡ ꯍꯥꯠꯄ ꯉꯝꯃꯤ꯫

ꯃꯁꯤꯒꯤ ꯃꯊꯛꯇ ꯂꯩꯕꯥꯛꯇ ꯂꯩꯔꯤꯕ ꯂꯩꯁꯧ ꯀꯌꯥꯕꯨ
ꯍꯥꯠꯇꯣꯛꯄ ꯉꯝꯕ ꯍꯤꯗꯥꯛ Pacer ꯍꯥꯏꯅ ꯈꯪꯅꯕ
ꯍꯤꯗꯥꯛꯁꯨ ꯐꯪꯂꯦ꯫ ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯈꯨꯗꯤꯡꯗ

Pacer ꯒ꯭ꯔꯥꯝ 5-10 ꯐꯥꯎꯕ ꯌꯥꯟꯁꯤꯟꯕꯤꯔꯒ

mpKkt ꯃꯁꯥ ꯆꯣꯠꯅ ꯀꯥꯞꯊꯣꯛꯂꯕꯗꯤ ꯂꯩꯁꯧꯁꯤꯡꯕꯨ
ꯏꯔꯥꯏ ꯂꯥꯏꯅ ꯍꯥꯠꯂꯤ꯫ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯇꯨꯅ ꯌꯧꯍꯟꯕ
ꯉꯝꯗ꯭ꯔꯕ ꯂꯩꯅꯨꯡꯗ ꯂꯩꯔꯤꯕ ꯂꯩꯁꯧꯒꯤ ꯔꯥꯅꯤ ꯐꯥꯎꯕ ꯂꯩꯁꯧ
ꯇꯤꯜꯁꯤꯡꯅ ꯁꯟꯗꯣꯛꯈꯤꯗꯨꯅ ꯃꯄꯨꯡ ꯐꯥꯅ ꯍꯥꯠꯄ
ꯉꯝꯃꯤ꯫ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯆꯥꯡꯗꯤ ꯁꯣꯛꯇꯦ꯫

ꯃꯁꯤꯗ ꯅꯠꯇꯅ Mycorrhiza ꯍꯥꯏꯅ ꯈꯪꯅꯕ
ꯄꯥꯝꯕꯤꯗ ꯍꯥꯔ ꯄꯤꯕ ꯉꯝꯕ ꯀꯣꯛꯐꯥꯏꯁꯤꯡꯒꯤ
ꯃꯇꯦꯡꯅ ꯀꯣꯛꯐꯥꯏ ꯂꯥꯏꯅ ꯀꯌꯥꯕꯨꯁꯨ ꯂꯥꯛꯁꯤꯟꯕ
ꯉꯝꯂꯦ꯫

Mycorrhiza ꯁꯤꯃꯛ ꯂꯧꯃꯤꯁꯤꯡꯅ
ꯀꯩꯊꯦꯜꯗꯒꯤ ꯂꯩꯕꯁꯨ ꯐꯪꯂꯦ꯫

ꯊꯧꯔꯝꯁꯤꯡ ꯑꯁꯤ ꯃꯤꯄꯨꯝ ꯇꯤꯡꯅ
ꯄꯥꯝꯅꯔꯛꯂꯤꯕ ꯏꯟꯇꯤꯒ꯭ꯔꯦꯇꯦꯗ ꯄꯦꯁꯠ
ꯃꯦꯅꯦꯖꯃꯦꯟꯠ ꯑꯃꯁꯨꯡ ꯑꯣꯔꯒꯥꯅꯤꯛ ꯐꯥꯔꯃꯤꯡꯒꯤ
ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕ ꯊꯧꯔꯝ ꯑꯃ ꯑꯣꯏꯔꯦ꯫

ꯗꯥ. ꯑꯦꯝ FOTFOT ꯁꯤꯡꯍ
ꯁꯟꯕꯤꯗ ꯌꯥꯝꯅ ꯇꯣꯏꯅ ꯊꯦꯡꯅꯕ ꯂꯥꯏꯅꯥ - ‘ꯈꯣꯝꯗ ꯍꯧꯕ’

ꯁꯟꯕꯤꯁꯤꯡꯗ ꯌꯥꯝꯅ ꯇꯣꯏꯅ ꯅꯥꯒꯟꯕ ꯂꯥꯏꯅꯥ ꯀꯌꯥꯒꯤ ꯃꯅꯨꯡꯗ
ꯈꯣꯝꯗ ꯍꯧꯕ ꯍꯥꯏꯕꯁꯤꯁꯨ ꯑꯃꯅꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯃꯔꯨ ꯑꯣꯏꯅ
ꯁꯪꯒꯣꯝ ꯊꯣꯛꯄꯤ ꯁꯟꯕꯤꯁꯤꯡꯗ ꯅꯥꯒꯜꯂꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ
ꯅꯥꯔꯛꯂꯕꯗꯤ ꯁꯪꯒꯣꯝ ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡꯁꯨ ꯑꯁꯨꯛꯀꯤ ꯃꯇꯤꯛ ꯍꯟꯊꯩ꯫

ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯁꯦꯜ ꯊꯨꯝꯒ ꯐꯤꯚꯝꯗ ꯌꯥꯝꯅ ꯁꯣꯛꯍꯜꯂꯤ꯫

ꯑꯩꯈꯣꯏꯒꯤ ꯂꯝꯁꯤꯗꯁꯨ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯁꯟꯕꯨꯁꯤꯡꯗ ꯁꯦꯜ ꯊꯨꯝꯒꯤ
ꯐꯤꯚꯝꯗ ꯌꯥꯝꯅ ꯁꯣꯛꯍꯜꯂꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ KE ꯂꯣꯏꯕꯤꯔꯤꯕ
ꯁꯟꯕꯨꯁꯤꯡꯅ ꯁꯦꯟꯊꯣꯛ ꯂꯩꯅ KE ꯂꯣꯏꯕꯤꯒꯦ ꯍꯥꯏꯔꯒꯗꯤ
ꯂꯥꯏꯅꯥꯁꯤꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫

ꯂꯥꯏꯅꯥ ꯀꯔꯝꯅ ꯁꯟꯗꯣꯔꯛꯏ:

ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯕꯦꯛꯇꯔꯤꯌꯥ ꯃꯈꯜ ꯀꯌꯥꯃꯨꯛꯅ ꯊꯣꯛꯍꯜꯂꯤ꯫

ꯍꯥꯏꯔꯤꯕ ꯕꯦꯛꯇꯔꯤꯌꯥ ꯑꯁꯤꯅ ꯁꯪꯒꯣꯝꯗ ꯌꯥꯎꯔꯛꯇꯨꯅ ꯃꯗꯨ
ꯆꯥꯔꯨꯔꯒ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯁꯦꯜꯗ ꯐꯥꯎꯕ ꯑꯀꯥꯏꯕ ꯀꯌꯥ ꯄꯤꯔꯤ꯫

ꯀꯔꯤꯒꯨꯝꯕ ꯃꯇꯝꯗꯁꯨ ꯀꯣꯛꯐꯥꯏ ꯁꯨꯖ ꯃꯈꯜ ꯈꯔꯅꯁꯨ ꯈꯣꯝꯗ
ꯍꯧꯕꯁꯤ ꯊꯣꯛꯍꯜꯂꯤ꯫ ꯈꯣꯝꯗ ꯍꯧꯕꯁꯤ ꯁꯟꯒꯣꯜꯗ ꯂꯩꯔꯤꯕ ꯁꯟꯕꯤ
ꯑꯃꯒ ꯑꯃꯒ ꯂꯧꯅꯔꯛꯄꯁꯨ ꯌꯥꯏ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯑꯀꯣꯏꯕꯒꯤ
ꯐꯤꯚꯝ ꯐꯠꯆꯤꯜꯂꯛꯇꯕ, ꯃꯣꯠꯁꯤꯜꯂꯛꯂꯒ ꯂꯥꯏꯅ ꯑꯁꯤꯁꯨ ꯂꯥꯛꯏ꯫

ꯈꯣꯝꯗ ꯍꯧꯗꯨꯅ ꯂꯩꯔꯤꯕ ꯁꯟꯕꯤꯒꯤ SOA ꯅꯠꯇ꯭ꯔꯒ ꯈꯣꯝꯖꯤꯟꯗꯥ
ꯅꯞꯇꯨꯅ ꯂꯩꯔꯤꯕ ꯃꯍꯤꯛ ꯃꯌꯥꯝꯁꯤꯅ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯃꯇꯝꯗ ꯁꯟꯕꯤ
ꯑꯃꯗꯒꯤ ꯑꯃꯗ ꯁꯟꯗꯣꯛꯔꯛꯂꯤ꯫ ꯃꯍꯤꯛꯁꯤꯡꯁꯤꯅ ꯁꯟꯕꯤꯒꯤ
ꯈꯣꯝꯖꯤꯟꯗꯂ ꯎꯟꯁꯥꯗ ꯑꯃꯗꯤ ꯊꯣꯝꯖꯤꯟꯒꯤ ꯃꯔꯤ ꯃꯅꯨꯡꯗ ꯄꯨꯟꯅ
ꯂꯩꯗꯨꯅ ꯂꯥꯌꯣꯡ ꯑꯁꯤ ꯊꯣꯔꯛꯏ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯑꯀꯣꯏꯕꯒꯤ
ꯐꯤꯚꯝ ꯐꯠꯆꯤꯜꯂꯛꯇꯕ, ꯃꯣꯠꯁꯤꯜꯂꯛꯄꯁꯨ ꯍꯥꯠꯔꯤꯕ ꯂꯥꯏꯅꯥ ꯑꯁꯤ
ꯊꯣꯛꯍꯜꯂꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯃꯇꯝꯗ ꯁꯟꯕꯤꯗꯨꯅ ꯂꯩꯔꯤꯕ ꯁꯟꯒꯣꯜ
ꯑꯃꯗꯤ ꯃꯥꯅ ꯇꯨꯝꯅꯕ ꯊꯥꯔꯤꯕ ꯆꯔꯨꯁꯤꯡꯗꯨ ꯃꯣꯠꯁꯤꯜꯂꯛꯂꯒꯗꯤ
ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯁꯟꯗꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯋꯥꯡꯏ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ
ꯁꯟꯕꯤ ꯃꯁꯥꯃꯛꯁꯨ ꯂꯨ-ꯅꯥꯟꯅ ꯊꯃꯕꯤꯕ ꯗꯔꯀꯥꯔ ꯂꯩ꯫ ꯃꯣꯠꯂꯒꯗꯤ
ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯃꯇꯝꯗ ꯈꯣꯝꯖꯤꯟꯒꯤ ꯃꯔꯤꯗ ꯃꯍꯤꯛꯁꯤꯡꯗꯨ
ꯆꯪꯈꯤꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯋꯥꯡꯏ꯫ ꯃꯍꯤꯛꯁꯤꯡꯁꯤꯅ ꯆꯪꯈ꯭ꯔꯒ ꯃꯆꯥ
ꯃꯊꯪ ꯃꯊꯪ ꯄꯣꯛꯊꯣꯔꯛꯇꯨꯅ ꯃꯁꯤꯡ ꯌꯥꯝꯈꯠꯂꯛꯏ꯫ ꯃꯍꯤꯁꯤꯡ
ꯑꯁꯤꯅ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯂꯤꯕ ꯃꯤꯒꯤ ꯃꯈꯨꯠ, ꯁꯟꯒꯣꯜꯒꯤ ꯆꯔꯨ ꯆꯅꯥꯏ,
ꯂꯩꯃꯥꯏ ꯑꯃꯗꯤ ꯐꯛꯂꯥꯡꯅꯆꯤꯡꯕꯗ ꯄꯛꯇꯨꯅ ꯂꯩꯍꯧꯏ꯫ ꯃꯁꯤꯗꯒꯤ
ꯃꯁꯥ ꯐꯕ ꯁꯟꯕꯤꯁꯤꯡꯒꯤ ꯁꯪꯒꯣꯝ ꯊꯣꯔꯛꯐꯝ ꯃꯔꯤꯗ ꯆꯪꯈꯤꯗꯨꯅ
ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯥꯔꯛꯄ ꯌꯥꯏ ꯑꯗꯨꯒ ꯑꯃꯔꯣꯏꯗ ꯃꯄꯨꯡ ꯐꯥꯅ ꯁꯪꯒꯣꯝ
ꯁꯨꯝꯗꯣꯛꯄꯤꯍꯧꯗ꯭ꯔꯕ ꯂꯦꯝꯍꯧꯗꯨꯅ ꯂꯩꯍꯧꯔꯒꯗꯤ ꯁꯪꯒꯣꯝꯁꯤꯡꯗꯨꯅ
ꯊꯟꯖꯤꯜꯂꯛꯂꯒ ꯈꯣꯝꯗ ꯍꯧꯔꯛꯄ ꯌꯥꯏ꯫

ꯂꯥꯏꯅꯥꯁꯤꯡꯒꯤ ꯂꯥꯏꯑꯣꯡ:

ꯂꯥꯏꯅꯥꯁꯤꯡꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯑꯅꯤꯔ ꯊꯣꯛꯄ ꯌꯥꯏ-

ꯀ) ꯂꯥꯏꯑꯣꯡ ꯎꯠꯊꯣꯛꯇꯅ ꯈꯣꯝꯗ ꯍꯧꯕ:

ꯀꯔꯤꯒꯨꯃꯕ ꯃꯇꯝꯗ ꯁꯅꯕꯤꯒꯤ ꯃꯁꯥꯗ ꯅꯥꯕꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯑꯃ
ꯎꯠꯄ ꯇꯧꯗꯅ ꯁꯪꯒꯣꯝ ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡꯁꯤ ꯆꯥꯗ 20 ꯃꯨꯛꯀꯤ ꯆꯥꯡꯗ
ꯍꯟꯊꯔꯛꯄ ꯌꯥꯎꯏ꯫ ꯁꯪꯒꯣꯝ ꯑꯗꯨ ꯆꯥꯡꯌꯦꯡ ꯇꯧꯕ ꯃꯇꯝꯗ ꯈꯣꯝꯗ
ꯍꯧꯕꯒꯤ ꯃꯍꯤꯛꯁꯤꯡ ꯌꯥꯎꯕ ꯊꯦꯡꯅꯩ꯫ ꯃꯁꯤꯕꯨ ꯂꯥꯏꯑꯣꯡ ꯎꯠꯇꯕ
ꯈꯩꯝꯗ ꯍꯧꯕ ꯍꯥꯏꯅ ꯈꯪꯅꯩ꯫

ꯁ) ꯂꯥꯏꯑꯣꯡ ꯎꯠꯊꯣꯛꯇꯅ ꯈꯣꯝꯗ ꯍꯧꯕ:

ꯃꯁꯤꯗ ꯃꯈꯜ ꯑꯍꯨꯝ ꯊꯣꯛꯅ ꯈꯥꯏꯗꯣꯛꯄ ꯌꯥꯏ-

ꯑꯍꯥꯟꯕꯗ ꯌꯥꯝꯅ ꯊꯨꯕ ꯃꯑꯣꯡꯗ ꯅꯥꯔꯄꯒꯤ ꯂꯥꯏꯑꯣꯡ
ꯑꯍꯥꯟꯕ ꯍꯧꯔꯛꯄꯗ ꯃꯁꯥ ꯅꯤꯛꯂꯛꯄ, ꯃꯁꯥ ꯁꯥꯒꯠꯂꯛꯄ
ꯂꯥꯏꯍꯧ ꯍꯧꯔꯛꯄ, ꯅꯨꯡꯁꯥ ꯁ꯭ꯋꯥꯔ ꯅꯤꯡꯊꯤꯅ ꯍꯣꯟꯕ ꯉꯝꯂꯛꯇꯕ,
ꯆꯥꯅꯤꯡ ꯊꯛꯅꯤꯡꯕ ꯐꯥꯎꯔꯛꯇꯕ, ꯁꯒꯨꯞ ꯁꯥꯏꯔꯛꯇꯕ, ꯁꯪꯒꯣꯝ
ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯔꯛꯄ, ꯃꯈꯣꯃꯒꯤ ꯁꯔꯨꯛ ꯑꯃ
ꯅꯠꯇ꯭ꯔꯒ ꯂꯣꯏꯅꯃꯛ ꯉꯥꯡꯁꯪ ꯉꯥꯡꯅ ꯆꯥꯎꯊꯣꯛꯔꯛꯄ, ꯐꯣꯡ ꯐꯣꯡ
ꯁꯥꯒꯠꯂꯛꯄ, ꯁꯣꯛꯄꯗ ꯌꯥꯝꯅ ꯅꯥꯕ ꯐꯥꯎꯕ ꯊꯦꯡꯅꯩ꯫ ꯁꯟꯕꯨꯅ
ꯅꯥꯔꯤꯕ ꯁꯟꯕꯤꯗꯨꯒꯤ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗꯣꯛꯂꯒ ꯌꯦꯡꯕꯗ ꯅꯥꯄꯨ ꯃꯆꯨ
ꯃꯥꯟꯕ ꯑꯔꯥꯡꯕ ꯃꯍꯤ ꯃꯔꯛꯇ ꯑꯉꯧꯕ ꯃꯄꯪ ꯃꯆꯦꯠ ꯃꯆꯦꯠ \

ꯥꯎꯕ ꯊꯦꯡꯅꯕꯤꯒꯅꯤ꯫

ꯑꯅꯤꯁꯨꯕꯗ ꯈꯔ ꯍꯟꯊꯕ/ꯇꯞꯊꯕ ꯃꯑꯣꯡꯒꯤ ꯂꯥꯏꯑꯣꯡ:

ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯈꯪꯍꯧ ꯍꯧꯔꯛꯄꯗꯤ ꯅꯠꯇꯦ, ꯁꯪꯒꯣꯝ ꯁꯨꯝꯅ ꯁꯨꯃꯅ
ꯅꯥꯔꯛꯀꯅꯤ꯫ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯃꯇꯝꯗꯁꯨ ꯁꯟꯕꯤꯗꯨ ꯕꯦꯔ ꯇꯧꯕ
ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯁꯪꯒꯣꯝ ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯒꯅꯤ꯫ ꯆꯥꯕ ꯊꯛꯄꯗ
ꯊꯣꯏꯗꯣꯛꯅ ꯑꯀꯥꯏꯕ ꯂꯩꯇꯦ꯫ ꯁꯟꯕꯨꯅ ꯑꯍꯥꯟꯕ ꯁꯨꯝꯕ ꯁꯪꯒꯣꯝꯗꯨꯗ
ꯃꯄꯪ ꯃꯄꯪ ꯃꯆꯦꯠ ꯃꯆꯦꯠ ꯌꯥꯎꯕ ꯊꯦꯡꯒꯅꯤ꯫ ꯃꯇꯨꯡ ꯇꯥꯕꯗ ꯁꯪꯒꯣꯝꯒꯤ
ꯃꯆꯨꯗꯨ ꯅꯥꯄꯨ ꯃꯥꯜꯂꯞ ꯇꯧꯕ ꯅꯠꯇ꯭ꯔꯒ ꯉꯥꯡꯂꯩꯅꯕ ꯎꯒꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ
ꯃꯇꯝꯁꯤꯗ ꯁꯣꯒꯣꯝ ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡꯗꯤ ꯍꯥꯟꯅꯗꯒꯤ ꯍꯟꯊꯒꯅꯤ꯫

ꯂꯥꯏꯅꯥ ꯑꯁꯤꯒꯤ ꯂꯥꯏꯑꯣꯡꯗꯤ ꯊꯣꯏꯗꯣꯛꯅ ꯆꯤꯛꯄ ꯅꯥꯕ ꯇꯩꯂꯦ꯫ \

ꯥꯝꯅ ꯇꯞꯅ ꯃꯇꯝ ꯆꯪꯅ ꯃꯈꯣꯝꯒꯤ ꯁꯔꯨꯛ ꯈꯨꯗꯤꯡꯃꯛ ꯈꯖꯤꯛ ꯈꯖꯤꯛ
ꯆꯥꯎꯈꯠꯂꯛꯄ ꯎꯒꯅꯤ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯁꯪꯒꯣꯝ ꯊꯣꯛꯄꯒꯤ
ꯆꯥꯡꯁꯨ ꯑꯁꯨꯝ ꯑꯁꯨꯝ ꯍꯟꯊꯔꯛꯀꯅꯤ꯫ ꯆꯩꯅꯥꯈꯣꯜ ꯌꯥꯎꯗꯅ ꯇꯞꯅ
ꯇꯞꯅ SOA ꯑꯃꯗꯤ ꯈꯣꯝꯖꯤꯟꯁꯤꯡ ꯆꯥꯎꯈꯠꯂꯛꯏ ꯑꯃꯗꯤ ꯁꯪꯒꯣꯝ
ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯔꯛꯄꯁꯤꯅ ꯁꯟꯕꯤꯗ ꯈꯣꯝꯒꯤ ꯇꯤ ꯕꯤꯅ
ꯅꯥꯔꯛꯄꯒꯤ ꯈꯨꯗꯝꯅꯤ ꯍꯥꯏꯅ ꯂꯧꯕ ꯌꯥꯏ꯫

ꯂꯥꯏꯅꯥ ꯈꯪꯇꯣꯛꯄ ꯑꯃꯗꯤ ꯉꯟꯅ ꯂꯥꯌꯦꯡꯕꯤꯍꯧꯕ:

ꯁꯟꯕꯨꯁꯤꯡꯅ ꯃꯁꯥꯒꯤ ꯁꯟꯕꯤꯁꯤꯡꯗꯇꯨ ꯃꯇꯝ ꯑꯌꯥꯝꯕꯗ
ꯅꯤꯡꯊꯤꯅ ꯁꯦꯟꯅꯕꯤꯒꯅꯤ꯫ ꯈꯣꯝꯗ ꯍꯧꯕꯒꯤ ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯑꯁꯤ
ꯅꯤꯡꯊꯤꯅ ꯈꯪꯖꯤꯟꯕꯤꯗꯨꯅ ꯍꯦꯛ ꯍꯧꯔꯛꯄꯒ ꯈꯪꯇꯗꯣꯛꯄ \

ꯥꯝꯅ ꯃꯔꯨ ꯑꯣꯏ꯫ ꯂꯥꯏꯑꯣꯡꯁꯤꯡꯗꯒꯤ ꯂꯥꯏꯅ ꯑꯁꯤ ꯅꯥꯔꯦ ꯍꯥꯏꯕ
ꯈꯔꯝꯈꯩ ꯈꯪꯂꯕꯁꯨ ꯆꯞ ꯆꯥꯅ ꯈꯪꯗꯣꯛꯅꯕꯒꯤꯗꯃꯛ ꯁꯪꯒꯣꯝꯗꯨ
ꯈꯣꯝꯖꯤꯟ ꯃꯔꯤꯗꯒꯤ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯄꯥꯇ꯭ꯔꯗ ꯃꯁꯛ ꯈꯪꯅ
ꯍꯥꯞꯄꯤꯗꯨꯅ ꯁꯟꯖꯦꯟꯊꯣꯡꯗ ꯂꯩꯔꯤꯕ ꯗꯤ ꯑꯥꯏ ꯂꯦꯕꯇ ꯆꯥꯡꯌꯦꯡ
ꯇꯧꯕꯤꯒꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯁꯟꯕꯨꯗꯨꯒꯤ ꯁꯟꯕꯤꯗꯨ ꯈꯣꯝꯗ ꯍꯧꯗꯨꯅ
ꯅꯥꯕ ꯇꯥꯔꯒꯗꯤ ꯌꯥꯝꯅ ꯉꯟꯅ ꯂꯥꯌꯦꯡꯕꯤꯍꯧꯕꯅ ꯐꯩ꯫ ꯁꯪꯒꯣꯝꯁꯤꯡ \

ꯥꯔꯤꯕꯃꯈꯩ ꯂꯣꯏꯅ ꯁꯨꯝꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯈꯣꯝꯖꯤꯟꯗ ꯑꯁꯣꯛ ꯑꯄꯟ
ꯌꯥꯎꯔꯕꯗꯤ ꯂꯨꯝꯕꯨ ꯂꯨꯝꯕꯨ ꯁꯥꯕ ꯏꯁꯤꯡꯗ4 ꯑꯦꯟꯇꯤꯁꯦꯞꯇꯤꯛ
ꯍꯤꯗꯥꯛ ꯍꯥꯞꯂꯒ ꯆꯥꯝꯊꯣꯛꯄꯤꯒꯅꯤ ꯑꯃꯗꯤ ꯈꯣꯝꯖꯤꯟ ꯈꯣꯝꯖꯤꯟꯗ
ꯑꯦꯟꯇꯤꯕꯥꯏꯑꯣꯇꯤꯛꯁ ꯁꯤꯖꯤꯟꯅꯕꯤꯒꯅꯤ꯫

ꯉꯥꯛꯊꯣꯛꯅꯕ ꯃꯔꯨ ꯑꯣꯏꯕ ꯆꯦꯛꯁꯤꯡ ꯊꯧꯔꯥꯡꯁꯤꯡ:

ꯈꯣꯝꯗ ꯍꯧꯕꯁꯤ ꯃꯔꯨ ꯐꯪꯅ ꯃꯨꯠꯊꯠꯄꯗꯤ ꯉꯝꯗꯦ꯫ ꯁꯥ-ꯁꯟꯗ
ꯑꯇꯩ ꯑꯇꯣꯞꯄ ꯂꯥꯏꯅ ꯀꯌꯥꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯑꯃꯗꯤ ꯅꯥꯔꯛꯇꯅꯕ
ꯃꯇꯝ ꯃꯇꯝꯒꯤ ꯑꯣꯏꯕ ꯇꯤꯛ ꯊꯥꯅꯩ ꯑꯗꯨꯕ ꯈꯨꯝꯗ ꯍꯧꯕꯒꯤ ꯑꯣꯏꯅꯗꯤ
ꯃꯁꯤꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯅꯠꯇ꯭ꯔꯒ ꯅꯥꯔꯛꯇꯅꯕ ꯑꯀꯛꯅꯕ ꯇꯤꯀ
ꯂꯩꯇꯦ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯁꯟꯕꯨꯁꯤꯡꯅ ꯂꯥꯏꯅ ꯑꯁꯤꯗꯒꯤ ꯅꯥꯔꯛꯇꯅꯕ
ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡ ꯂꯧꯕꯤꯔꯒꯗꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ

ZAT! ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡ ꯂꯧꯕꯤꯅꯕ ꯃꯈꯥꯗ ꯊꯝꯖꯔꯤ:

-ꯁꯟꯒꯣꯜ ꯑꯃꯗꯤ ꯑꯀꯣꯏꯕꯒꯤ ꯃꯐꯝ ꯄꯨꯝꯅꯃꯛ ꯅꯤꯡꯊꯤꯅ ꯂꯨ

-ꯅꯥꯟꯅ ꯊꯝꯕꯤꯒꯅꯤ꯫

- ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩ ꯃꯃꯥꯡꯗ ꯁꯪꯒꯣꯝ ꯍꯥꯞꯀꯗꯕ ꯄꯥꯇ꯭ꯔ
ꯈꯨꯗꯤꯡꯃꯛ ꯁꯦꯡꯗꯣꯛꯄꯤꯗꯨꯅ ꯊꯝꯕꯤꯒꯅꯤ꯫

- ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯤꯒꯗꯧꯔꯤꯕ ꯃꯤꯗꯨꯒꯤ ꯃꯈꯨꯠ ꯃꯁꯥ- ꯁꯦꯡꯅ
ꯍꯥꯝꯗꯣꯛꯄꯤꯒꯅꯤ ꯑꯃꯗꯤ ꯑꯅꯥꯟꯕ ꯐꯤꯔꯣꯜ ꯁꯦꯠꯄꯤꯒꯅꯤ꯫

- ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩ ꯃꯃꯥꯡꯗ ꯁꯟꯕꯤꯗ ꯄꯛꯂꯤꯕ ꯑꯃꯣꯠ
ꯑꯀꯥꯏ ꯄꯨꯝꯅꯃꯛ ꯂꯩꯊꯣꯛ ꯆꯥꯝꯊꯣꯛꯄꯤꯗꯨꯅ ꯂꯨ-ꯂꯥꯟꯅ ꯊꯃꯕꯤꯒꯅꯤ꯫

- ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩꯒꯤ ꯃꯃꯥꯡ ꯑꯃꯁꯨꯡ ꯃꯇꯨꯡꯗ ꯈꯣꯏꯖꯤꯟꯗꯨ
ꯑꯦꯟꯗꯤꯁꯦꯞꯇꯤꯛ ꯌꯥꯎꯕ ꯏꯁꯤꯡꯅ ꯁꯦꯡꯅ ꯆꯥꯝꯊꯣꯛꯄꯤꯒꯅꯤ꯫

- ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩ ꯃꯃꯥꯡꯗ ꯈꯣꯝꯖꯤꯟꯁꯤꯡꯗꯨ ꯏꯁꯤꯡ ꯑꯐꯕꯅ
ꯁꯦꯡꯅ ꯆꯥꯝꯊꯣꯛꯄꯤꯗꯨꯅ ꯑꯅꯥꯟꯕ ꯐꯤ ꯑꯃꯅ ꯁꯦꯡꯅ ꯇꯩꯊꯣꯛꯄꯤꯗꯨꯅ
ꯊꯝꯕꯒꯅꯤ꯫

-ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯃꯇꯝꯗ ꯁꯦꯡꯅ ꯑꯃꯗꯤ ꯂꯣꯏꯅ
ꯁꯨꯃꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯑꯃꯅꯥ ꯈꯣꯝꯖꯤꯟ ꯌꯥꯎꯔꯒꯗꯤ ꯃꯗꯨ
ꯑꯇꯣꯞꯄ ꯄꯥꯇ꯭ꯔ ꯑꯃꯗ ꯏꯀꯣꯟ ꯀꯣꯟꯅ ꯁꯨꯝꯗꯣꯛꯄꯤꯒꯅꯤ꯫

- ꯈꯣꯝꯖꯤꯟꯁꯤꯡꯗꯨ ꯌꯥꯔꯤꯕꯃꯈꯩ ꯆꯦꯈꯥꯏꯕ/ꯇꯠꯄ/ ꯁꯣꯛꯄ-

ꯄꯟꯕ ꯊꯣꯛꯍꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯁꯤꯅ ꯍꯌꯤꯡ ꯇꯣꯡꯕꯒꯤ ꯆꯥꯡ
ꯋꯥꯡꯍꯟꯗꯨꯅ ꯈꯣꯝꯗ ꯍꯧꯍꯟꯕꯗ ꯑꯆꯧꯕ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫

- ꯁꯅꯕꯨꯁꯤꯡꯕꯨ ꯌꯥꯝꯅ ꯇꯣꯏꯅ ꯌꯦꯡꯁꯤꯟꯕꯤꯕ ꯗꯔꯀꯥꯔ ꯌꯥꯝꯅ
ꯂꯩ꯫ ꯂꯣꯏꯅꯅ ꯁꯪꯒꯣꯝꯒꯤ ꯃꯆꯨꯗꯨ ꯑꯑꯣꯟꯕ ꯂꯥꯛꯄ ꯎꯔꯕꯗꯤ ꯃꯅꯥꯛ
ꯅꯛꯄ ꯗꯥꯛꯇꯔ ꯑꯃꯒ ꯇꯥꯟꯅꯕꯤꯗꯨꯅ ꯃꯇꯝ ꯆꯥꯅ ꯂꯥꯌꯦꯡꯕꯤꯒꯅꯤ꯫

- ꯏꯁꯤꯡ ꯌꯥꯝꯅ ꯇꯨꯡꯅ ꯂꯩꯕ ꯃꯐꯝ ꯑꯃꯗꯤ ꯍꯌꯤꯡ ꯃꯔꯥꯡ ꯃꯥꯏꯅ
ꯁꯟꯖꯥꯕꯨꯡꯗ ꯁꯖꯤꯛ ꯆꯥꯍꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫

ꯁꯟꯕꯤꯅ ꯃꯈꯣꯝ ꯈꯥꯏꯈ꯭ꯔꯕ ꯃꯇꯨꯡꯗ ꯈꯣꯝꯗ ꯍꯧꯔꯛꯇꯅꯕ
ꯈꯣꯝꯖꯤꯟ ꯈꯨꯗꯤꯡꯗ ꯑꯦꯟꯇꯤꯕꯥꯏꯑꯣꯇꯤꯛꯁ ꯀꯥꯞꯄꯒꯅꯤ꯫

- ꯑꯁꯣꯛ ꯑꯄꯟ ꯌꯥꯎꯕ ꯈꯨꯗꯤꯡꯃꯛ ꯈꯨꯗꯛꯇ ꯍꯤꯗꯥꯛ ꯂꯥꯡꯊꯛ
ꯁꯤꯖꯤꯟꯅꯕꯤꯗꯨꯅ ꯂꯥꯌꯦꯡꯕꯤꯒꯅꯤ꯫

ꯑꯁꯨꯝꯅ ꯁꯟꯕꯨꯁꯤꯡꯅ ꯃꯁꯥꯒꯤ ꯁꯟꯕꯤꯁꯤꯡꯗꯨ ꯈꯣꯝꯗ ꯍꯧꯕꯒꯤ
ꯂꯥꯏꯑꯣꯡ ꯅꯤꯡꯊꯤꯅ ꯈꯪꯍꯧꯕꯒ ꯂꯣꯏꯅꯅ ꯉꯥꯟꯅ ꯂꯥꯌꯦꯡꯕꯤꯍꯧꯔꯒꯗꯤ
ꯑꯃꯥꯡꯕ ꯀꯌꯥꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯒꯅꯤ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ
ꯁꯪꯒꯣꯝ ꯑꯃꯗꯤ ꯁꯟꯁꯤꯡ ꯂꯨ-ꯅꯥꯟꯅ ꯊꯝꯕꯤꯕ ꯗꯔꯀꯥꯔ ꯂꯩ ꯫ ꯃꯁꯤꯗꯇ
ꯑꯐꯕ ꯁꯪꯒꯣꯝ ꯄꯨꯊꯣꯛꯇꯨꯅ ꯍꯦꯟꯅ ꯁꯦꯟꯗꯣꯡ ꯂꯩꯕ ꯉꯝꯒꯅꯤ꯫

ꯗꯥ. ꯁꯔꯥꯡꯊꯦꯝ ꯖꯦꯁꯃꯥꯔꯥꯅꯤ
ꯍꯪꯒꯥꯝ ꯃꯨꯂꯥꯒꯤ ꯃꯔꯥꯗ ꯇꯥꯕ ꯔꯨꯠ ꯅꯣꯠ ꯅꯦꯃꯥꯇꯣꯗ
“ꯁꯟꯕꯨꯁꯤꯡꯅ ꯃꯁꯥꯒꯤ ꯁꯟꯕꯤꯁꯤꯡꯕꯨ ꯃꯇꯝ ꯑꯌꯥꯝꯕꯗ ꯅꯤꯡꯊꯤꯅ ꯁꯦꯟꯅꯕꯤꯒꯅꯤ꯫ ꯈꯣꯝꯗ ꯍꯧꯕꯒꯤ
ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯑꯁꯤ ꯅꯤꯡꯊꯤꯅ ꯈꯪꯖꯤꯟꯕꯤꯗꯨꯅ ꯍꯦꯛ ꯍꯧꯔꯛꯄꯒ ꯈꯪꯗꯣꯛꯄ ꯌꯥꯝꯅ ꯃꯔꯨ ꯑꯣꯏ꯫

ꯂꯥꯏꯑꯣꯡꯁꯤꯡꯗꯒꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯥꯔꯦ ꯍꯥꯏꯅ ꯈꯔꯃꯈꯩ ꯈꯪꯂꯕꯁꯨ ꯆꯞ ꯆꯥꯅ ꯈꯪꯗꯣꯛꯅꯕꯒꯤꯗꯃꯛ
ꯁꯪꯒꯣꯝꯗꯨ ꯊꯣꯝꯖꯤꯟ ꯃꯔꯤꯗꯒꯤ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯡꯟꯕ ꯄꯥꯇ꯭ꯔ ꯃꯁꯛ ꯈꯪꯅ ꯍꯥꯞꯄꯤꯗꯨꯅ ꯁꯟꯖꯦꯟꯊꯣꯡꯗ
ꯂꯩꯔꯤꯕ ꯗꯤ ꯑꯥꯏ ꯂꯦꯕꯇ ꯆꯥꯡꯌꯦꯡ ꯇꯧꯕꯤꯒꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯁꯐꯕꯨꯗꯨꯒꯤ ꯁꯟꯕꯤꯗꯨ ꯈꯣꯝꯗ ꯍꯧꯗꯨꯅ
ꯅꯥꯕ ꯇꯥꯔꯒꯗꯤ ꯌꯥꯝꯅ ꯉꯟꯅ ꯂꯥꯌꯦꯡꯕꯤꯍꯧꯕꯅ ꯐꯩ

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