ꯑꯦꯗꯤꯇꯣꯔꯤꯌꯦꯜ IMPHAL, MONDAY, JANUARY 06, 2020 ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯋꯥꯛꯆꯤꯡꯒꯤ 11 ꯅꯤ ꯄꯥꯟꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3417 obT\ꯂꯩ ꯃꯀꯩꯋ꯭ꯀ
2 HUEIYEN LANPAO

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯖꯅ꯭ꯌꯨꯋꯥꯔꯤ 06, 2020, ꯏꯝꯐꯥꯜ
11 ꯁꯨꯕ ꯆꯍꯤ, 259 ꯁꯨꯕ ꯃꯁꯤꯡ
ꯇ꯭ꯔꯥꯐꯤꯛꯀꯤ ꯀꯥꯡꯂꯣꯟ ꯊꯧꯁꯥꯅꯗꯕꯒꯤ ꯑꯁꯣꯏꯕ
ꯀꯅꯥꯒꯨꯝꯕ ꯑꯃꯅ ꯊꯧꯁꯥꯗ꯭ꯔꯒ ꯑꯇꯣꯞꯄ ꯃꯤꯑꯣꯏꯁꯤꯡꯗ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯃꯥꯌꯣꯛꯅꯍꯟꯕ
ꯃꯔꯝꯒꯤ ꯑꯑꯣꯟꯕ ꯃꯇꯨꯡ ꯏꯟꯅ ꯃꯥꯂꯦꯝꯗ ꯍꯧꯖꯤꯛ ꯒꯥꯔꯤꯒꯤ ꯃꯁꯤꯡ ꯑꯉꯛꯄ ꯐꯪꯅ ꯍꯦꯟꯒꯠꯂꯛꯂꯦ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯑꯣꯏꯅꯁꯨ ꯒꯥꯔꯤꯒꯤ
ꯃꯁꯤꯡ ꯅꯣꯡꯃ-ꯅꯣꯡꯃꯒꯤ ꯍꯦꯟꯒꯠꯂꯛꯄꯒ ꯂꯣꯏꯅꯅ ꯂꯝꯕꯤꯒꯤ ꯈꯨꯗꯣꯡꯊꯤꯕ
ꯊꯧꯗꯣꯛꯇ ꯃꯤ ꯁꯤꯕ ꯑꯃꯁꯨꯡ ꯑꯁꯣꯛ ꯑꯄꯟ ꯅꯪꯕꯒꯤ ꯆꯥꯡ ꯑꯁꯨꯝ-ꯑꯁꯨꯝ
ꯋꯥꯡꯈꯠꯂꯛꯄꯒꯤ ꯐꯤꯆꯚꯝꯗ ꯂꯩꯔꯤ꯫ “ꯗꯤ ꯂꯦꯟꯁꯦꯟꯠ” ꯃꯦꯒꯖꯤꯟꯗ
ꯐꯣꯡꯂꯛꯄ ꯔꯤꯄꯣꯔꯠ ꯑꯃꯒꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯆꯍꯤ ꯈꯨꯗꯤꯡꯒꯤ ꯏꯟꯗꯤꯌꯥꯗ
ꯂꯝꯕꯤꯒꯤ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯧꯗꯣꯛ ꯊꯣꯛꯄꯗ ꯃꯤꯑꯣꯏ ꯂꯥꯛ 1.38 ꯂꯣꯝ ꯁꯤꯔꯤ꯫

ꯀꯨꯝꯖꯥ 1990 ꯗ ꯑꯦꯛꯁꯤꯗꯦꯟꯠꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯁꯤꯍꯟꯈꯤꯕ ꯃꯁꯤꯡꯗꯒꯤ
ꯆꯥꯗ 58.7 ꯂꯣꯝ ꯍꯦꯟꯒꯠꯂꯛꯂꯦ꯫ ꯃꯥꯂꯦꯝ ꯑꯄꯨꯟꯕꯒꯤ ꯑꯣꯏꯅ ꯂꯝꯕꯤꯒꯤ
ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯧꯗꯣꯛꯇ ꯃꯤ ꯁꯤꯕꯒꯤ ꯆꯥꯡꯗꯤ ꯆꯥꯗ 8.1 ꯈꯛꯇꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ
ꯍꯧꯖꯤꯛ ꯑꯣꯏꯔꯤꯕ ꯐꯤꯚꯝ ꯑꯁꯤ ꯐꯒꯠꯍꯟꯗꯨꯅ ꯑꯍꯣꯡꯕ ꯂꯥꯛꯍꯟꯗ꯭ꯔꯒꯗꯤ
ꯆꯠꯂꯤꯕ ꯆꯍꯤ ꯑꯁꯤꯗ ꯃꯤꯑꯣꯏ ꯂꯥꯈ 1 ꯈꯨꯗꯤꯡꯒꯤ ꯃꯤꯑꯣꯏ 16.8 ꯂꯝꯕꯤꯒꯤ
ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯧꯗꯣꯛꯇ ꯁꯤꯕ ꯌꯥꯏ ꯍꯥꯏꯔꯤ꯫ ꯃꯥꯂꯦꯝ ꯑꯄꯨꯟꯕꯒꯤ ꯑꯣꯏꯅ
ꯂꯝꯕꯤꯒꯤ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯧꯗꯣꯛꯀ ꯃꯤ ꯁꯤꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯔꯛꯂꯕꯁꯨ
ꯏꯟꯗꯤꯌꯥꯗꯗꯤ ꯑꯁꯨꯝ-ꯑꯁꯨꯝ ꯍꯦꯟꯒꯠꯂꯛꯄꯒꯤ ꯃꯑꯣꯡ ꯑꯃ ꯎꯕ ꯐꯪꯂꯤ꯫ ꯃꯁꯤ
ꯃꯔꯨ ꯑꯣꯏꯕ ꯃꯔꯝꯗꯤ ꯇ꯭ꯔꯐꯤꯛꯀꯤ ꯀꯥꯡꯂꯣꯟ ꯃꯄꯨꯡ ꯐꯥꯅ ꯆꯠꯍꯅꯍꯟꯗꯕꯒ
ꯂꯣꯏꯅꯅ ꯃꯇꯤꯛ ꯆꯥꯕ ꯆꯦꯛꯁꯤꯟ-ꯊꯧꯔꯥꯡ ꯂꯧꯈꯠꯄ ꯇꯧꯗꯅ ꯒꯥꯔꯤꯒꯤ ꯃꯁꯤꯡ
ꯀꯥ-ꯍꯦꯟꯅ ꯍꯦꯟꯒꯠꯂꯛꯄꯒꯤꯅꯤ ꯍꯥꯏꯅ ꯔꯤꯄꯣꯔꯠ ꯑꯃꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫

ꯏꯟꯗꯤꯌꯥꯒꯤ ꯑꯣꯏꯅ ꯑꯦꯛꯁꯤꯗꯦꯟꯠꯇ ꯃꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯌꯥꯝꯅ ꯁꯤꯔꯤꯕꯁꯤ
ꯃꯣꯇꯣꯔ ꯁꯥꯏꯀ꯭ꯂꯤꯁꯠꯁꯤꯡꯅꯤ꯫ ꯃꯊꯪꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯌꯥꯝꯅ ꯁꯤꯔꯤꯕꯁꯤ ꯈꯣꯡꯅ
ꯆꯠꯄ ꯃꯈꯣꯏꯁꯤꯡ, ꯁꯥꯏꯀꯜ ꯊꯧꯕꯁꯤꯡ ꯑꯁꯃꯨꯡ ꯒꯥꯔꯤꯗ ꯇꯣꯡꯕꯁꯤꯡ (

ꯑꯊꯧꯕ ꯃꯤ ꯅꯠꯇꯕꯞ)ꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕ ꯃꯔꯝꯗꯤ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ
ꯔꯣꯗ ꯏꯟꯐ꯭ꯔꯥꯁꯇ꯭ꯔꯛꯆꯔ ꯑꯃꯁꯨꯡ ꯒꯥꯔꯤꯒꯤ ꯗꯤꯖꯥꯏꯟ ꯇꯧꯕꯗ ꯒꯥꯔꯤ ꯊꯧꯔꯤꯕ
ꯃꯤꯑꯣꯏ ꯑꯗꯨꯈꯛꯇꯕꯨ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯣꯛꯍꯟꯗꯅꯕ ꯊꯧꯔꯥꯡ ꯂꯧꯈꯠꯄꯅꯅꯤ ꯍꯥꯏꯅ

“ꯂꯦꯟꯁꯦꯠ” ꯀꯤ ꯔꯤꯄꯣꯔꯠꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫ ꯃꯇꯧ ꯑꯁꯨꯝꯅ ꯁꯦꯟꯊꯣꯛ ꯅꯦꯝꯕ
ꯑꯃꯗꯤ ꯃꯌꯥꯏ ꯑꯣꯏꯔꯞꯄ ꯂꯩꯕꯥꯛꯁꯤꯡꯗ ꯈꯣꯡꯅ ꯆꯠꯄ ꯃꯤꯑꯣꯏ ꯑꯃꯁꯨꯡ
ꯁꯥꯏꯀꯜ ꯊꯧꯔꯤꯕꯁꯤꯡꯕꯨ ꯈꯨꯗꯣꯡꯊꯕ ꯃꯥꯌꯣꯛꯅꯍꯟꯕꯒꯤ ꯐꯤꯚꯝꯗ ꯂꯩꯔꯤ꯫

ꯂꯝꯕꯤ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯁꯥꯏꯀꯜ ꯊꯧꯕꯁꯤꯡ, ꯈꯣꯡꯅ ꯆꯠꯂꯤꯕꯁꯤꯡ ꯑꯃꯁꯨꯡ
ꯒꯥꯔꯤ ꯊꯧꯕꯁꯤꯡꯒꯤ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯃꯐꯝ ꯅꯤꯡꯊꯤꯅ ꯗꯤꯃꯥꯔꯀꯦꯁꯟ ꯇꯧꯗꯨꯅ
ꯊꯝꯕꯤꯕ ꯇꯉꯥꯏꯐꯗꯦ ꯍꯥꯏꯅ ꯑꯈꯪ-ꯑꯍꯩꯁꯤꯡꯅ ꯃꯣꯠ ꯄꯤꯔꯤ꯫ ꯏꯟꯗꯤꯌꯥꯗ
ꯂꯝꯕꯤꯒꯤ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯧꯗꯣꯛꯁꯤꯡ ꯊꯣꯛꯄꯗ ꯁꯤꯔꯤꯕ ꯑꯄꯨꯟꯕ ꯃꯤꯁꯤꯡꯒꯤ
ꯆꯥꯗ 77ꯇꯤ ꯅꯨꯄꯥꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕ ꯃꯔꯝꯗꯤ ꯅꯨꯄꯥ ꯑꯌꯥꯝꯕꯅ ꯃꯌꯥꯏ
ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯁꯤꯖꯤꯟꯅꯔꯒ ꯒꯥꯔꯤ ꯊꯧꯕ ꯑꯃꯁꯨꯡ ꯂꯝꯖꯦꯜ ꯇꯥꯟꯅꯕꯒꯤ
ꯃꯑꯣꯡꯗ ꯈꯣꯡꯖꯦꯜ ꯌꯥꯡꯅ ꯒꯥꯔꯤ ꯊꯧꯕꯅꯅꯤ ꯍꯥꯏꯔꯤ꯫ ꯄ꯭ꯔꯥꯏꯝ ꯃꯤꯅꯤꯁꯇꯔ
ꯅꯔꯦꯟꯗ꯭ꯔ ꯃꯣꯗꯤꯅ ꯂꯨꯆꯤꯡꯕ ꯁꯦꯟꯇ꯭ꯔꯦꯜ ꯒꯚꯔꯟꯃꯦꯟꯠꯅ ꯀꯨꯝꯖꯥ 2020
ꯐꯥꯎꯕꯗ ꯄꯥꯟꯗꯝ ꯐꯪꯅꯕ ꯁꯁꯇꯦꯅꯦꯕꯜ ꯗꯤꯚꯂꯞꯃꯦꯟꯠ ꯒꯣꯜꯁ (ꯑꯦꯁ ꯗꯤ
ꯖꯤ) ꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯊꯧꯔꯥꯡ ꯀꯌꯥ ꯂꯧꯈꯠꯂꯕꯁꯨ ꯁ꯭ꯇꯦꯠ10-ꯃꯅꯤꯄꯨꯔ, ꯖꯝꯃꯨ
ꯑꯦꯟꯗ ꯀꯥꯁꯃꯤꯔ, ꯄꯟꯖꯥꯕ, ꯍꯔꯤꯌꯥꯅꯥ, ꯔꯥꯖꯁꯊꯥꯟ, ꯎꯠꯇꯔ ꯄ꯭ꯔꯗꯦꯁ, ꯃꯙ꯭ꯌ
ꯄ꯭ꯔꯗꯦꯁ, ꯀꯔꯅꯥꯇꯀꯥ, ꯇꯥꯃꯤꯜ ꯅꯥꯗꯨ ꯑꯃꯁꯨꯡ ꯓꯔꯈꯟꯗꯅ ꯃꯤꯌꯥꯝꯅ ꯂꯝꯕꯤꯒꯤ
ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯣꯗꯣꯛ ꯃꯥꯌꯣꯛꯅꯕ ꯌꯥꯕꯒꯤ ꯔꯤꯛꯁ ꯑꯗꯨꯝꯃꯛ ꯋꯥꯡꯅ ꯂꯩꯔꯤ꯫

ꯑꯇꯣꯞꯄ ꯋꯥꯐꯝ ꯑꯃꯅ ꯅꯣꯡꯃ-ꯅꯣꯡꯃꯒꯤ ꯃꯁꯤꯡ ꯍꯦꯟꯒꯠꯂꯛꯂꯤꯕ
ꯒꯥꯔꯤꯁꯤꯡꯒꯤ ꯃꯇꯤꯛ ꯆꯥꯕ ꯈꯥꯝꯐꯝ ꯂꯩꯇꯕꯒꯤ ꯃꯇꯥꯡꯗꯅꯤ꯫ ꯇꯣꯉꯥꯟ-

ꯇꯣꯉꯥꯟꯕ ꯀꯝꯄꯅꯤꯁꯤꯡꯅ ꯑꯅꯧꯕ ꯃꯈꯜꯒꯤ ꯒꯥꯔꯤ ꯀꯌꯥ ꯄꯨꯊꯣꯛꯅꯔꯛꯄꯒ
ꯂꯣꯏꯅꯅ ꯒꯥꯔꯤ ꯊꯧꯕꯒꯤ ꯆꯥꯡ ꯍꯦꯟꯒꯠꯂꯛꯂꯕꯁꯨ ꯂꯝꯕꯤꯒꯤ ꯄꯥꯛ-ꯆꯥꯎꯕꯗꯤ
ꯍꯦꯟꯒꯠꯂꯛꯄ ꯅꯠꯇꯕꯅꯤꯅ ꯇ꯭ꯔꯥꯐꯤꯛ ꯖꯥꯝ ꯑꯃꯁꯨꯡ ꯑꯦꯛꯁꯤꯗꯦꯟꯠ
ꯊꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯦꯟꯒꯠꯂꯛꯄꯅꯤ ꯍꯥꯏꯅ ꯂꯧꯅꯔꯤ꯫ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯗ ꯊꯧꯅꯔꯤꯕ
ꯒꯥꯔꯤ ꯈꯨꯗꯤꯡꯃꯛ ꯃꯐꯝ ꯑꯃ ꯅꯠꯇ꯭ꯔꯒ ꯑꯃꯗ ꯈꯥꯝꯕ ꯃꯊꯧ ꯇꯥꯏ꯫ ꯏꯟꯗꯤꯌꯥꯟ
ꯔꯣꯗ ꯀꯣꯡꯒ꯭ꯔꯦꯁ (ꯑꯥꯏ ꯑꯥꯔ ꯁꯤ) ꯅ ꯂꯦꯞꯄ ꯁ꯭ꯇꯦꯟꯗꯔꯗ ꯃꯇꯨꯡ ꯏꯟꯅ
ꯒꯥꯔꯤ ꯑꯃ ꯈꯥꯝꯂꯒ ꯊꯝꯕꯗ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯂꯝꯒꯤ ꯄꯥꯛ-ꯆꯥꯎꯕꯁꯤ ꯆꯥꯎꯔꯥꯛꯅ
ꯄꯣꯠ-ꯆꯩ ꯂꯩꯕ ꯆꯠꯄꯗ ꯁ꯭ꯀꯋꯥꯔ ꯃꯤꯇꯔ 25 ꯔꯣꯝ ꯄꯥꯛ-ꯆꯥꯎꯕ ꯂꯝ ꯒꯥꯔꯤ
ꯈꯥꯝꯕꯗ ꯁꯤꯖꯤꯟꯅꯔꯤ꯫ ꯍꯧꯖꯤꯛꯃꯛꯀꯤ ꯑꯣꯏꯅ ꯏꯟꯗꯤꯌꯥꯗ ꯄꯥꯔꯀꯤꯡꯒ
ꯃꯔꯤ ꯂꯩꯅꯕ ꯃꯄꯨꯡ ꯐꯥꯕ ꯂꯣ ꯑꯃꯠꯇ ꯂꯩꯇ꯭ꯔꯤ ꯍꯥꯏꯕ ꯌꯥꯏ꯫ ꯌꯨꯅꯤꯌꯟ
ꯃꯤꯅꯤꯗꯇ꯭ꯔꯤ ꯑꯣꯐ ꯑꯔꯕꯥꯟ ꯗꯤꯚꯂꯞꯃꯦꯟꯠꯅ ꯁꯦꯝꯕ “ꯗꯤ ꯅꯦꯁꯅꯜ ꯑꯔꯕꯥꯟ
ꯇ꯭ꯔꯥꯟꯁꯄꯣꯔꯠ ꯄꯣꯂꯤꯁꯤ” ꯃꯇꯨꯉ ꯏꯟꯅ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯁ꯭ꯇꯦꯠ ꯈꯨꯗꯤꯡꯃꯛꯇ
ꯃꯇꯤꯛ ꯆꯥꯕ ꯕꯤꯜꯗꯤꯡ ꯔꯨꯜ ꯁꯦꯝꯂꯒ ꯌꯨꯝꯊꯣꯡ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯒꯥꯔꯤ ꯈꯥꯝꯐꯝ
ꯃꯇꯤꯛ ꯆꯥꯅ ꯊ Mb ꯃꯊꯧ ꯇꯥꯏ꯫ ꯄꯥꯔꯀꯤꯡꯒꯤ ꯋꯥꯐꯝ ꯑꯁꯤ ꯃꯔꯤ ꯂꯩꯅꯕ
ꯁ꯭ꯇꯦꯠꯅ ꯂꯧꯒꯗꯕ ꯊꯧꯗꯥꯡ ꯑꯣꯏꯕ ꯃꯔꯝꯅ ꯑꯔꯕꯥꯟ ꯂꯣꯀꯜ ꯕꯣꯗꯤꯁꯤꯡꯅ
ꯃꯇꯤꯛ ꯆꯥꯕ ꯒꯥꯔꯤ ꯈꯥꯝꯐꯝ ꯂꯩꯍꯟꯅꯕ ꯊꯣꯔꯥꯡ ꯂꯧꯈꯠꯐꯝ ꯊꯣꯛꯄꯅꯤ꯫ ꯌꯨꯅꯤꯌꯟ
ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤ ꯑꯣꯐ ꯑꯔꯕꯥꯟ ꯗꯤꯚꯂꯞꯃꯦꯟꯠꯅ ꯁꯤꯇꯤ ꯄꯨꯝꯅꯃꯛ ꯃꯑꯣꯡ ꯇꯥꯅ
ꯁꯦꯝꯒꯠꯅꯕꯒꯤ ꯃꯇꯥꯡꯗ ꯄꯥꯏꯈꯠꯄ ꯐ꯭ꯂꯦꯛꯁꯤꯞ ꯄ꯭ꯔꯣꯒ꯭ꯔꯥꯝ ꯑꯃ ꯑꯣꯏꯔꯤꯕ
ꯖꯋꯥꯍꯔꯂꯥꯜ ꯅꯦꯍꯔꯨ ꯅꯦꯁꯅꯜ ꯑꯔꯕꯥꯟ ꯔꯤꯅ꯭ꯌꯨꯋꯦꯜ ꯃꯤꯁꯟ (ꯖꯅꯔꯝ) ꯒꯤ ꯃꯇꯨꯡ
ꯏꯟꯅ ꯁꯤꯇꯤ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯑꯣꯊꯣꯔꯤꯇꯤꯁꯤꯡꯅ ꯒꯥꯔꯤ ꯈꯥꯝꯐꯝ ꯃꯇꯤꯛ ꯆꯥꯅ
ꯂꯩꯍꯟꯕꯒꯤ ꯊꯧꯗꯥꯡ ꯂꯧꯔꯕꯁꯨ ꯃꯤꯌꯥꯝꯗ ꯄꯥꯔꯀꯤꯡ ꯔꯨꯜ ꯉꯥꯛꯅ ꯆꯠꯍꯟꯕꯒꯤ
ꯊꯧꯗꯥꯡꯗꯤ ꯇ꯭ꯔꯥꯐꯤꯛ ꯄꯨꯂꯤꯁꯅ ꯂꯧꯔꯤ꯫ ꯃꯣꯇꯣꯔ ꯚꯦꯍꯤꯀꯜꯁ ꯑꯦꯛꯠꯀꯤ
ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯁꯦꯛꯁꯟꯁꯤꯡꯒꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯀꯅꯥꯒꯨꯝꯕ ꯃꯤꯑꯣꯏ
ꯑꯃꯠꯇꯅ ꯂꯝꯕꯤꯗ ꯊꯧꯔꯤꯕ ꯒꯥꯔꯤꯁꯤꯡꯗ ꯑꯄꯟꯕ ꯄꯤꯒꯗꯕ ꯃꯑꯣꯡꯗ ꯒꯥꯔꯤ
ꯈꯥꯝꯖꯤꯟꯕ ꯌꯥꯗꯦ꯫ ꯑꯦꯛꯠ ꯑꯁꯤꯒꯤ ꯃꯌꯣꯛꯇ ꯂꯩꯕ ꯑꯇꯩ ꯊꯧꯑꯣꯡꯁꯤꯡꯗꯤ,
ꯂꯝꯕꯤꯗ ꯈꯣꯡꯅ ꯆꯠꯂꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯒꯤ ꯃꯐꯝ ꯑꯃꯠꯇ ꯈꯥꯛꯇꯕꯃꯈꯩ ꯒꯥꯔꯤ
ꯈꯥꯝꯖꯤꯟꯕ, ꯅꯣ-ꯄꯥꯔꯀꯤꯡ ꯑꯦꯔꯤꯌꯥꯗ ꯒꯥꯔꯤ ꯈꯥꯝꯖꯤꯟꯕ ꯑꯁꯃꯨꯡ ꯀꯥ-ꯍꯦꯟꯅ
ꯂꯝ ꯀꯜꯂꯒ ꯂꯝꯕꯤ ꯇꯪꯈꯥꯏ ꯍꯦꯟꯅ ꯒꯥꯔꯤ ꯈꯥꯝꯖꯤꯟꯕ ꯑꯁꯤꯅꯆꯤꯡꯕꯅꯤ꯫

ꯑꯀꯛꯅꯕ ꯃꯐꯝ ꯑꯃꯗ ꯄꯔꯦꯡ ꯁꯥꯅ ꯂꯝꯕꯤꯒꯤ ꯃꯇꯥꯏꯗ ꯄꯦꯔꯂꯦꯜ ꯑꯣꯏꯅ
ꯒꯥꯔꯤ ꯈꯥꯝꯒꯗꯕꯗ ꯐꯩꯅ ꯅꯠꯇ꯭ꯔꯒ ꯌꯨꯡꯅ ꯒꯥꯔꯤ ꯈꯥꯝꯖꯤꯟꯗꯨꯅ ꯀꯥ-ꯍꯦꯟꯕ ꯃꯑꯣꯡꯗ
ꯂꯝ ꯀꯟꯕꯒꯤ ꯊꯧꯑꯣꯡꯁꯨ ꯑꯦꯛꯠ ꯑꯁꯤꯅ ꯌꯥꯗꯦ꯫ ꯂꯝꯕꯤ ꯈꯨꯗꯤꯡꯃꯛ ꯂꯩꯉꯥꯛꯀꯤ
ꯂꯝꯅꯤ ꯍꯥꯏꯕ ꯀꯥꯎꯊꯣꯛꯅꯕꯒ ꯀꯅꯥꯒꯨꯝꯕꯅ ꯃꯁꯥ-ꯃꯁꯥꯒꯤ ꯃꯌꯨꯝ ꯃꯄꯥꯗ ꯅꯨꯡ-

ꯂꯩꯉꯣꯏꯅꯆꯤꯡꯕ ꯄꯣꯠꯂꯝ ꯀꯌꯥ ꯂꯝꯕꯤ ꯅꯥꯀꯜꯗ ꯄꯨꯡ 24 ꯆꯨꯞꯅ ꯂꯥꯟꯅꯏꯒꯤ
ꯒꯥꯔꯤ ꯈꯥꯝꯐꯝ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯕꯁꯨ ꯌꯥꯎꯗꯕ ꯅꯠꯇꯦ꯫ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤꯒꯤ
ꯃꯊꯛꯇ ꯗꯨꯀꯥꯟ ꯐꯝꯂꯤꯕ ꯃꯤꯑꯣꯏ ꯈꯔꯅ ꯃꯤꯌꯥꯝꯒꯤ ꯂꯝꯕꯤ ꯆꯠꯐꯝ ꯌꯧꯅ
ꯄꯣꯠ-ꯆꯩ ꯊꯥꯡꯗꯣꯛꯂꯒ ꯌꯣꯟꯕ ꯑꯁꯃꯨꯡ ꯐꯨꯠ-ꯄꯥꯊ ꯄꯨꯝꯅꯃꯛ ꯄꯣꯠ ꯌꯣꯟꯐꯝ
ꯑꯣꯟꯊꯣꯛꯅꯔꯛꯄꯅꯁꯨ ꯂꯝꯕꯤ ꯆꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯍꯦꯟꯒꯠꯍꯟꯕꯅꯤ ꯍꯥꯏꯕ
ꯌꯥꯏ꯫ ꯀꯅꯥꯒꯨꯝꯕꯅ ꯃꯔꯛ-ꯃꯔꯛꯇ ꯂꯝꯕꯤ ꯇꯪꯈꯥꯏ ꯊꯤꯡꯂꯒ ꯏꯁꯩ-ꯅꯣꯡꯃꯥꯏ
ꯑꯃꯁꯨꯡ ꯂꯤꯂꯥꯅꯆꯤꯡꯕ ꯍꯔꯥꯎ ꯀꯨꯝꯍꯩꯒꯤ ꯊꯧꯔꯝ ꯄꯥꯡꯊꯣꯛꯄꯅꯁꯨ ꯈꯨꯗꯣꯡꯊꯤꯕ
ꯊꯣꯛꯍꯟꯅꯕꯒꯤ ꯃꯔꯝ ꯑꯣꯏꯗꯕ ꯅꯠꯇꯦ꯫ ꯑꯃꯅꯁꯨ-ꯑꯃꯅꯁꯨ ꯇ꯭ꯔꯥꯐꯤꯛꯀꯤ
ꯀꯥꯡꯂꯣꯟ ꯅꯤꯡꯊꯤꯅ ꯉꯥꯛꯅꯕ ꯇꯥꯔꯕꯗꯤ ꯍꯟꯗꯛꯇ ꯆꯍꯤ ꯍꯧꯕ ꯅꯨꯃꯤꯠꯇ
ꯅꯣꯁꯅꯜ ꯍꯥꯏꯋꯦ 102 ꯒꯤ ꯃꯣꯏꯔꯥꯡꯈꯣꯝ ꯃꯄꯥꯗ ꯏꯁꯩ-ꯅꯣꯡꯃꯥꯏꯒꯤ ꯊꯧꯔꯝ ꯑꯃ
ꯄꯥꯡꯊꯣꯛꯂꯤꯉꯩꯗ ꯁꯤꯡꯖꯃꯩꯔꯣꯝꯗꯒꯤ ꯊꯧꯔꯛꯄ ꯀꯥꯔ ꯑꯃꯅ ꯊꯣꯝꯕꯗ ꯃꯤꯁꯤ-

ꯃꯤꯅ ꯌꯥꯎꯈꯤꯕꯗꯨ ꯊꯣꯛꯂꯝꯗꯕ ꯌꯥꯏ ꯀꯅꯥꯒꯨꯝꯕ ꯑꯃꯅ ꯊꯧꯁꯥꯗ꯭ꯔꯒ ꯑꯇꯣꯞꯄ
ꯃꯤꯑꯣꯏꯁꯤꯡꯗ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯃꯥꯌꯣꯛꯅꯍꯟꯕꯒꯤ ꯊꯧꯗꯣꯛ ꯊꯣꯛꯍꯟꯗꯅꯕ
ꯂꯩꯉꯥꯛꯅ ꯍꯣꯠꯅꯐꯝ ꯊꯣꯛꯏ꯫

ꯄꯥꯎꯆꯦ ꯑꯁꯤꯗ ꯐꯣꯡꯖꯔꯤꯕ ꯋꯥꯔꯦꯡꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜ, ꯃꯤꯠꯌꯦꯡ ꯑꯏꯕ ꯃꯁꯥ ꯃꯁꯥꯒꯤꯅꯤ꯫ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯠꯌꯦꯡꯒ ꯊꯣꯏꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯗꯦ꯫

ꯂꯧꯃꯤꯁꯤꯡꯒꯤ ꯀꯥꯈꯜ
ꯅꯤꯡꯊꯝ ꯄꯥꯝꯕꯤꯁꯤꯡꯗ ꯀꯦꯜꯁꯤꯌꯝ ꯑꯃꯗꯤ ꯕꯥꯔꯣꯟ ꯋꯥꯠꯄꯒꯤ ꯂꯥꯏꯑꯣꯡ
ꯄꯥꯝꯕꯤꯗ ꯃꯆꯤꯟꯖꯥꯛ ꯋꯥꯠꯄꯒꯤ
ꯂꯥꯏꯑꯣꯡ ꯀꯌꯥ ꯃꯅꯥꯒꯤ ꯁꯛꯇꯝ ꯑꯃꯁꯨꯡ
ꯃꯆꯨꯅ ꯅꯠꯇ꯭ꯔꯒ ꯃꯍꯩꯒꯤ ꯁꯛꯇꯝꯅꯁꯨ
ꯐꯣꯡꯗꯣꯛꯏ꯫ ꯎꯠꯂꯤꯕ ꯂꯥꯏꯑꯣꯡꯗꯨꯗꯒꯤ
ꯄꯥꯝꯕꯤꯗꯨꯗ ꯀꯔꯤ ꯋꯥꯠꯂꯤ ꯍꯥꯏꯕꯗꯨ
ꯂꯦꯞꯊꯣꯛꯄ ꯌꯥꯏ꯫ ꯃꯅꯥꯒꯤ ꯑꯔꯤ-ꯑꯅꯧ
ꯈꯦꯟꯅꯕꯒꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯑꯋꯥꯠꯄ
ꯃꯆꯤꯟꯖꯥꯛꯀꯤ ꯂꯥꯏꯑꯣꯡ ꯎꯠꯐꯝ ꯈꯦꯟꯅꯩ꯫

ꯄꯥꯝꯕꯤꯒꯤ ꯁꯔꯨꯛ ꯑꯃꯗꯒꯤ ꯑꯇꯣꯞꯄ
ꯁꯔꯨꯛ ꯑꯃꯗ ꯄꯨꯊꯣꯛ-ꯄꯨꯁꯤꯟ ꯂꯦꯡꯊꯣꯛ
ꯂꯦꯡꯁꯤꯟ ꯇꯧꯕꯒꯤ ꯆꯥꯡ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯅꯦꯝꯕ
ꯀꯦꯜꯁꯤꯌꯝ ꯑꯃꯁꯨꯡ ꯕꯣꯔꯣꯟ ꯋꯥꯠꯄꯄꯒꯤ
ꯂꯥꯏꯑꯣꯡ ꯎꯠꯐꯝꯁꯤ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯌꯣꯟ
ꯑꯃꯁꯨꯡ ꯃꯍꯩꯗ ꯑꯣꯏ꯫

ꯄꯥꯝꯕꯤꯗ ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯂꯕꯗꯤ
ꯃꯌꯣꯟ ꯑꯣꯏꯅ ꯂꯩꯔꯤꯕ ꯃꯅꯥꯒꯤ ꯃꯇꯣꯟ
ꯊꯪꯕ ꯁꯔꯨꯛꯇꯒꯤ ꯉꯧꯊꯣꯔꯛꯄ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯑꯗꯨꯃꯛꯄꯨ ꯃꯈꯣꯛꯂꯣꯝ ꯊꯪꯕ ꯁꯔꯨꯛꯇꯨꯗꯤ ꯁꯪꯅ
ꯂꯩꯒꯅꯤ꯫ ꯌꯥꯝꯅꯅꯧꯔꯤꯕ ꯃꯅꯥꯗꯨꯃꯛꯀꯤ ꯁꯔꯨꯛ ꯑꯍꯨꯝ ꯊꯣꯛꯄꯒꯤ ꯃꯇꯣꯟꯊꯪꯕ ꯁꯔꯨꯛ ꯑꯃꯈꯛꯇꯨ
ꯃꯆꯨ ꯃꯥꯡꯈꯤꯒꯅꯤ ꯂꯣꯏꯅꯅ ꯀꯣꯟꯊꯔꯛꯀꯅꯤ, ꯄꯥꯏꯕꯗ ꯀꯦꯜꯒꯅꯤ꯫ ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯄꯒꯤ ꯆꯥꯡ
ꯋꯥꯡꯈꯠꯂꯛꯂꯕꯗꯤ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯇꯣꯟꯊꯪꯕ ꯁꯔꯨꯛꯇꯨꯃꯛ ꯁꯤꯒꯅꯤ, ꯀꯪꯁꯤꯜꯂꯛꯀꯅꯤ꯫ ꯕꯣꯔꯣꯟ ꯋꯥꯠꯄ
ꯑꯣꯏꯔꯒꯅ ꯃꯌꯣꯟ ꯑꯣꯏꯅ ꯂꯩꯔꯤꯕ ꯃꯄꯨꯡ ꯐꯥꯗ꯭ꯔꯤꯕ ꯃꯅꯥꯒꯤ ꯃꯈꯣꯛꯂꯣꯝꯛꯊꯪꯕ ꯁꯔꯨꯛꯇ ꯅꯥꯄꯨ ꯃꯆꯨ
ꯆꯪꯂꯛꯄ ꯑꯃꯁꯨꯡ ꯉꯧꯊꯣꯔꯛꯄ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕꯗ ꯃꯅꯥꯗꯨꯃꯛ ꯁꯥꯡꯗꯣꯛꯈꯤꯕꯗꯨꯅ ꯆꯞꯁꯥꯡ
ꯁꯥꯡꯅ ꯎꯕꯁꯨ ꯌꯥꯎꯏ꯫ ꯑꯁꯨꯝꯅ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯌꯣꯟꯗ ꯎꯠꯂꯤꯕ ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯃꯨꯟꯅ ꯌꯦꯡꯕꯤꯔꯒ
ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯂꯤꯕ꯭ꯔ ꯅꯠꯇ꯭ꯔꯒ ꯕꯣꯔꯣꯟ ꯋꯥꯠꯂꯤꯕ꯭ꯔ ꯍꯥꯏꯕꯗꯨ ꯈꯪꯗꯣꯛꯄꯤꯕ ꯆꯪꯏ꯫

ꯄꯥꯝꯕꯤꯗ ꯀꯦꯜꯁꯤꯌꯝꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯅ ꯌꯥꯎꯏ꯫ ꯀꯪꯂꯕ ꯄꯥꯝꯕꯤꯒꯤ ꯁꯔꯨꯛꯁꯤꯡꯒꯤ ꯆꯥꯗ 0.2
ꯗꯒꯤ ꯑꯃ ꯐꯥꯎꯕꯗꯤ ꯀꯦꯜꯁꯤꯌꯝꯅꯤ꯫ ꯌꯥꯎꯐꯝ ꯊꯣꯛꯄ ꯆꯥꯡꯗꯒꯤ ꯍꯟꯊꯈ꯭ꯔꯕꯗꯤ ꯀꯦꯜꯁꯤꯌꯝ
ꯋꯥꯠꯄꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯎꯠꯂꯛꯏ꯫ ꯄꯥꯝꯕꯤ ꯃꯈꯜ ꯈꯦꯟꯅꯕꯒꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯄꯒꯤ
ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯈꯦꯟꯅꯩ꯫

ꯈꯥꯃꯦꯟ ꯑꯁꯤꯟꯕ: ꯈꯥꯃꯦꯟ ꯑꯁꯤꯟꯕꯗ ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯂꯕꯗꯤ ꯃꯇꯣꯟꯂꯣꯝꯊꯪꯕ ꯃꯅꯥꯁꯤꯡ
ꯀꯪꯁꯤꯜꯂꯛꯏ꯫ ꯄꯥꯜꯂꯤꯕ ꯈꯥꯃꯦꯟꯒꯤ ꯃꯇꯣꯟꯊꯪꯕ ꯁꯔꯨꯛ ꯅꯠꯇ꯭ꯔꯒ ꯃꯈꯣꯛꯂꯣꯝꯊꯪꯕ ꯁꯔꯨꯛꯇ
ꯀꯣꯔꯣꯛ-ꯀꯣꯏꯔꯣꯛ ꯃꯨꯁꯤꯟ ꯃꯨꯅ ꯈꯥꯝꯗꯦꯛꯄ ꯑꯃꯁꯨꯡ ꯀꯨꯠꯇꯛ ꯇꯧꯕ ꯂꯩꯒꯅꯤ꯫ ꯈꯥꯃꯦꯟ ꯑꯁꯤꯟꯕꯗ
ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯄꯒꯤ ꯂꯥꯏꯅꯥꯕꯨꯖ ꯀꯣꯛꯐꯥꯏ ꯂꯥꯏꯅꯅꯥꯗꯤ ꯈꯟꯗꯨꯅ ꯀꯣꯛꯐꯥꯏ ꯍꯤꯗꯥꯛ ꯀꯌꯥ ꯀꯥꯞꯄꯁꯨ
ꯇꯣꯏꯅ ꯊꯦꯡꯅꯔꯤ꯫ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯇꯣꯏꯅ ꯊꯦꯡꯅꯕ ꯂꯥꯏꯅꯥꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯑꯃꯅꯤ꯫

ꯀꯣꯕꯤ: ꯀꯣꯕꯤ, ꯍꯪꯡꯒꯥꯝ ꯀꯥꯡꯕꯨꯗꯗꯤ ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯂꯛꯄꯒ ꯃꯌꯣꯟ ꯑꯣꯏꯅ ꯂꯩꯔꯤꯕ ꯃꯅꯥꯁꯤꯡ
ꯃꯆꯨ ꯑꯣꯜꯂꯛꯄ ꯑꯃꯁꯨꯡ ꯀꯣꯟꯊꯔꯛꯄ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯃꯌꯣꯟꯗꯨ ꯁꯤꯊꯔꯛꯏ꯫ ꯅꯧꯔꯤꯕ ꯄꯥꯝꯕꯤꯁꯤꯡ
ꯑꯣꯏꯔꯒꯗꯤ ꯑꯌꯥꯝꯕ ꯃꯅꯥꯁꯤꯡꯒꯤ ꯑꯁꯪꯕ ꯃꯆꯨ ꯃꯥꯡꯊꯔꯛꯏ꯫

ꯒꯥꯖꯔ: ꯒꯥꯖꯔ ꯁꯥꯜꯒꯣꯝꯒꯨꯝꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯗꯗꯤ ꯅꯧꯔꯤꯕ ꯃꯅꯥꯁꯤꯡ ꯀꯪꯁꯤꯜꯂꯛꯄꯗ ꯅꯠꯇꯅ
ꯃꯅꯥꯒꯤ ꯃꯈꯣꯛꯇꯨꯃꯛ ꯀꯪꯁꯤꯜꯂꯛꯇꯨꯅ ꯇꯨꯊꯔꯛꯏ꯫

ꯑꯥꯂꯨ: ꯑꯥꯂꯨꯒꯤ ꯃꯇꯣꯟꯊꯪꯕ ꯃꯅꯥꯁꯤꯡ ꯄꯤꯛꯏ꯫ ꯃꯅꯥꯒꯤ ꯃꯇꯥꯏꯊꯪꯕ ꯁꯔꯨꯛꯁꯤꯡꯒꯤ ꯑꯁꯪꯕ ꯃꯆꯨ
ꯃꯥꯡꯊꯔꯛꯏ꯫ ꯌꯨꯡꯅ ꯀꯣꯟꯁꯤꯜꯂꯛꯏ꯫ MyaI ꯊꯪꯕ ꯑꯆꯧꯕ ꯃꯁꯤꯡ ꯇꯝꯅ ꯀꯣꯟꯁꯤꯜꯂꯛꯏ꯫ ꯑꯥꯂꯨ
ꯇꯥꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯟꯊꯩ꯫ ꯑꯥꯂꯨ ꯄꯥꯝꯕꯤꯗ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯃꯆꯤꯟꯖꯥꯛ ꯋꯥꯠꯂꯛꯄꯗ ꯄꯣꯠꯊꯣꯛ ꯌꯥꯝꯅ
ꯍꯟꯊꯩ꯫ ꯑꯗꯨꯕꯨ ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯂꯛꯂꯕꯗꯤ ꯄꯣꯠꯊꯣꯛꯀꯤ ꯆꯥꯡ ꯑꯃꯁꯨꯛꯀ ꯍꯦꯟꯅ ꯍꯟꯊꯩ꯫

ꯃꯆꯤꯟꯖꯥꯛ ꯆꯥꯡꯆꯠꯇ ꯑꯥꯂꯨ ꯑꯃꯒꯤ
ꯑꯔꯨꯝꯕ (ꯒ꯭ꯔꯥꯝ)
ꯃꯆꯤꯟꯖꯥꯛ ꯁꯨꯔꯕ ꯂꯩꯕꯥꯛ - 60.1
ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯍꯥꯞꯇꯕ/ ꯌꯥꯎꯗꯕ - 26.8
ꯐꯣꯁꯐꯣꯔꯁ ꯌꯥꯎꯗꯕ/ ꯍꯥꯞꯇꯕ - 30.8
ꯄꯣꯇꯥꯁ ꯌꯥꯎꯗꯕ/ ꯍꯥꯞꯇꯕ - 16.9
ꯃꯦꯒꯅꯤꯁꯤꯌꯝ ꯌꯥꯎꯗꯕ/ ꯍꯥꯞꯇꯕ - 15.6
ꯀꯦꯜꯁꯤꯌꯝ ꯌꯥꯎꯗꯕ/ꯍꯥꯞꯇꯕ - 2.4
ꯀꯦꯜꯁꯤꯌꯝ ꯋꯥꯠꯂꯕ ꯑꯥꯂꯨꯒꯤ ꯄꯣꯠꯊꯣꯛ ꯍꯟꯊꯕꯅ ꯃꯇꯝ ꯃꯇꯝꯒꯤ ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯆꯦꯛꯁꯤꯟꯅ
ꯌꯦꯡꯁꯤꯟꯕ ꯆꯪꯏ꯫

ꯆꯨꯖꯥꯛ: ꯆꯨꯖꯥꯛ, ꯐꯧꯒꯨꯝꯕ ꯁꯤꯔꯤꯌꯦꯜꯁꯤꯡꯗꯗꯤ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯌꯣꯟ ꯑꯣꯏꯅ ꯂꯩꯔꯤꯕ ꯑꯁꯃꯨꯡ
ꯃꯅꯥꯁꯤꯡꯒꯤ ꯃꯌꯣꯟꯁꯤꯡ ꯃꯄꯨꯡ ꯐꯥꯅ ꯊꯤꯟꯒꯠꯄ ꯉꯝꯗꯦ꯫

ꯀꯣꯂꯤ ꯍꯋꯥꯏ: ꯀꯣꯂꯤ ꯍꯋꯥꯏ ꯑꯃꯁꯨꯡ ꯃꯪꯒꯜꯒꯨꯝꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯗꯗꯤ ꯃꯅꯥꯒꯤ ꯃꯇꯥꯏ ꯊꯪꯕ
ꯁꯔꯨꯛꯁꯤꯡ ꯏꯄꯠ ꯄꯠꯊꯅ ꯂꯩꯒꯅꯤ ꯑꯃꯁꯨꯡ ꯃꯅꯥꯒꯤ ꯃꯆꯨ ꯇꯥꯏꯐꯦꯠ ꯇꯥꯏꯅ ꯂꯩꯒꯅꯤ꯫ ꯃꯇꯣꯟꯂꯣꯝꯊꯪꯕ
ꯃꯎꯒꯤ ꯁꯔꯨꯛꯇ ꯂꯦꯛꯊꯗꯨꯅ ꯂꯩꯒꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯍꯋꯥꯏꯗꯨꯒꯤ ꯃꯔꯨꯁꯤꯡꯗꯨ ꯃꯄꯨꯡ ꯐꯥꯅ ꯆꯥꯎꯈꯠꯇꯦ꯫

ꯆꯥꯎꯕ ꯍꯦꯟꯗꯦ꯫

ꯄꯥꯝꯕꯤ ꯁꯔꯨꯛ ꯑꯃꯗꯒꯤ ꯑꯇꯣꯞꯄ ꯁꯔꯨꯛ ꯑꯃꯗ ꯏꯔꯥꯏ ꯂꯥꯏꯅ ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟ ꯇꯧꯕ ꯉꯝꯗꯕ
ꯀꯦꯜꯁꯤꯌꯝ ꯑꯃꯁꯨꯡ ꯕꯣꯔꯣꯟꯒꯨꯝꯕ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯆꯤꯟꯖꯥꯛꯁꯤꯡꯗ ꯅꯠꯇꯅ ꯑꯇꯩ ꯑꯇꯣꯞꯄ ꯆꯥꯡ
ꯅꯦꯝꯅ ꯗꯔꯀꯥꯔ ꯑꯣꯏꯕ ꯃꯆꯤꯟꯖꯥꯛꯁꯤꯡ ꯑꯁꯤꯗꯤ ꯏꯁꯤꯡꯗ ꯇꯨꯝꯍꯜꯂꯒ ꯁꯄ꯭ꯔꯦꯌꯔꯒꯤ ꯃꯇꯦꯡꯅ
ꯀꯥꯞꯄꯁꯤꯅ ꯄꯥꯝꯕꯤꯁꯤꯡꯅ ꯍꯦꯟꯅ ꯂꯥꯏꯅ ꯐꯪꯍꯜꯂꯤ꯫ ꯑꯗꯨꯃꯛꯄꯨ ꯉꯁꯤꯗꯤ ꯀꯦꯜꯁꯤꯌꯝꯒꯤꯗꯃꯛ
ꯀꯦꯜꯁꯤꯌꯝ ꯅꯥꯏꯇ꯭ꯔꯦꯠ ꯑꯁꯃꯨꯡ ꯕꯣꯔꯣꯟꯒꯤꯗꯃꯛ ꯅꯥꯏꯇ꯭ꯔꯣ ꯕꯣꯔꯦꯛꯁ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯔꯛꯄꯗꯒꯤ
ꯄꯥꯝꯕꯤꯁꯤꯡꯅ ꯃꯆꯜ ꯑꯅꯤ ꯑꯁꯤꯕꯨ ꯐꯪꯕꯗ ꯂꯥꯏꯍꯜꯂꯦ꯫

ꯗꯣ. ꯑꯦꯝ ꯊꯣꯏꯊꯣꯏ ꯁꯤꯡꯍ
ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯇꯦꯛꯅꯣꯂꯣꯖꯤ/ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯐꯤꯁ ꯐꯥꯔꯃꯤꯡ
ꯗꯣ. ꯌꯨꯝꯅꯥꯝ ꯕꯦꯗꯖꯤꯠ
ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯇꯦꯛꯅꯣꯂꯣꯖꯤ ꯍꯥꯏꯔꯤꯕ ꯑꯁꯤ ꯑꯃꯣꯠ-ꯑꯀꯥꯏ ꯅꯠꯇ꯭ꯔꯒ ꯀꯥꯟꯅꯗ꯭ꯔꯕ
ꯄꯣꯠꯁꯛꯁꯤꯡꯕꯨ ꯑꯐꯕ ꯅꯠꯇ꯭ꯔꯒ ꯀꯥꯟꯅꯕ ꯄꯣꯠꯁꯛ ꯑꯣꯟꯊꯣꯛꯅꯕꯒꯤ ꯊꯧꯑꯣꯡ ꯑꯃꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ
ꯊꯧꯑꯣꯡ ꯑꯁꯤ ꯉꯥ ꯌꯣꯛꯄꯗ ꯁꯤꯖꯤꯟꯅꯔꯕꯗꯤ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯐꯤꯁ ꯐꯥꯔꯃꯤꯡ ꯍꯥꯏꯅ ꯈꯪꯅꯩ꯫

ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯍꯥꯏꯕꯁꯤ Algae, Bacterial, Protozoans ꯑꯃꯗꯤ Organic Matter ꯈꯨꯗꯝ
ꯑꯣꯏꯂꯅ ꯍꯥꯏꯔꯕꯗ ꯉꯥꯒꯤ ꯃꯊꯤ, ꯆꯥꯕ ꯂꯣꯏꯍꯧꯗꯕ ꯃꯆꯤꯟꯖꯥꯛ ꯃꯌꯥꯝ ꯄꯨꯟꯁꯤꯟꯗꯨꯅ ꯁꯦꯝꯕ ꯄꯣꯠꯁꯛ
ꯑꯗꯨꯕꯨꯅꯤ꯫ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛꯀꯤ ꯊꯧꯑꯣꯡ ꯑꯁꯤ ꯑꯄꯤꯛꯄ ꯒ꯭ꯂꯥꯁꯀꯤ Tank ꯁꯤꯡ/ Fiber ꯘꯂꯥꯁꯁ,

Reinforce Plastic Tank ꯅꯠꯇ꯭ꯔꯒ ꯑꯆꯣꯕ ꯄꯨꯈ꯭ꯔꯤꯁꯤꯡꯗꯁꯨ ꯇꯧꯕ ꯌꯥꯏ꯫ ꯑꯄꯤꯛꯄ ꯃꯐꯝꯗ
ꯏꯁꯤꯡ ꯌꯥꯝꯅ ꯆꯪꯗꯅ ꯄꯥꯡꯊꯣꯛꯄ ꯌꯥꯕ ꯊꯧꯑꯣꯡ ꯑꯃ ꯑꯣꯏꯕ ꯃꯔꯝꯅ ꯍꯧꯖꯤꯛꯀꯤ ꯃꯇꯝꯗ ꯌꯥꯝꯅ
ꯀꯥꯟꯅꯕ ꯊꯧꯑꯣꯡ ꯑꯃꯅꯤ꯫ ꯀꯅꯥꯒꯨꯝꯕ ꯑꯃꯅ ꯉꯥ ꯌꯣꯛꯅꯕ ꯑꯆꯧꯕ ꯂꯝ ꯂꯩꯇ꯭ꯔꯕꯁꯨ ꯃꯐꯝ ꯑꯃꯗ
ꯑꯗꯨꯃꯛ ꯄꯥꯡꯊꯣꯛꯄ ꯌꯥꯕ ꯊꯧꯑꯣꯡ ꯑꯃꯅꯤ꯫

ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯁꯦꯝꯕ ꯑꯃꯁꯨꯡ ꯃꯊꯧ ꯇꯥꯕ ꯀꯥꯔꯕꯣꯟ ꯄꯤꯁꯤꯟꯕ:

ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯇꯔꯥꯃꯨꯛ ꯆꯟꯕ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯇꯞ ꯑꯃꯗ Nitrogen source ꯑꯣꯏꯅ

Ammonium Sulphate 10mg/l AmsuZ Carbon source AoIn (Glycerol, Sodium

ꯑꯆꯦꯇꯥꯇꯦ, ꯈꯨꯒꯥꯔ, Tapioca Flour, Wheat Flour, Molasses etc) ꯆꯤꯅꯤ ꯑꯉꯥꯡꯕ, ꯒꯦꯍꯨ
ꯄꯥꯎꯗꯔꯒꯨꯝꯕ 400 ꯃꯒ/ꯂ ꯂꯣꯏꯅꯅ 20ꯒ/ꯂꯄꯨꯈ꯭ꯔꯤꯒꯤ ꯂꯩꯕꯥꯛ ꯂꯧꯔꯒ ꯌꯥꯅꯁꯤꯟꯅꯕꯤꯔꯒ ꯄꯨꯡ 24
ꯊꯝꯒꯅꯤ꯫ ꯍꯥꯏꯕꯗꯤ ꯅꯣꯡꯃ ꯂꯩꯔꯕ ꯃꯇꯨꯡꯗ
ꯉꯥ ꯌꯣꯛꯀꯗꯧꯔꯤꯕ ꯇꯦꯡꯛꯇ 1:100
ꯍꯥꯏꯕꯗꯤ ꯑꯩꯈꯣꯏꯅ ꯁꯦꯝꯂꯤꯕ Biofloc

inoculum Asin sruK Am AoIb

ꯃꯇꯝꯗ ꯏꯁꯤꯡꯅ ꯁꯔꯨꯛ ꯆꯥꯝꯃ ꯑꯣꯏꯍꯟꯗꯨꯅ
ꯉꯥ ꯌꯣꯛꯅꯕꯒꯤꯗꯃꯛ ꯁꯦꯝꯕꯤꯒꯅꯤ ꯑꯃꯗꯤ

aeration ꯍꯥꯏꯕꯗꯤ ꯅꯨꯡꯁꯤ ꯊꯥꯖꯤꯟꯗꯨꯅ ꯏꯁꯤꯡ
ꯑꯗꯨ ꯀꯟꯅ ꯂꯦꯡꯍꯟꯗꯨꯅ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛꯁꯤꯡ
ꯑꯗꯨ ꯇꯥꯎꯍꯟꯗꯨꯅ ꯂꯩꯍꯟꯒꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ
ꯊꯧꯑꯣꯡ ꯑꯁꯤꯗ ꯂꯩꯒꯗꯧꯕ C:N ꯒꯤ ꯔꯦꯁꯤꯑꯣ
ꯑꯁꯤ 15:1 ꯅꯤ꯫

ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯇꯦꯛꯅꯣꯂꯣꯖꯤꯗ ꯌꯣꯛꯄ ꯌꯥꯕ
ꯉꯥꯁꯤꯡꯗ ꯌꯥꯎꯒꯗꯕ ꯃꯇꯨꯟꯁꯤꯡ-

(1) ꯑꯄꯤꯛꯄ ꯃꯐꯝꯗ ꯉꯥ ꯃꯁꯤꯡ ꯌꯥꯝꯅ
ꯌꯣꯛꯄ ꯌꯥꯒꯗꯕꯅꯤ꯫

(2) ꯏꯁꯤꯡꯗ ꯌꯥꯎꯕ ꯑꯣꯛꯁꯤꯖꯦꯟꯒꯤ
ꯆꯥꯡ ꯈꯔꯥ ꯅꯦꯝꯂꯕꯁꯨ ꯐꯖꯅ ꯍꯤꯡꯕ ꯉꯝꯕ
ꯑꯣꯏꯒꯗꯕꯅꯤ꯫

(3) ꯏꯁꯤꯡ ꯑꯅꯩꯕꯗ ꯐꯖꯅ ꯍꯤꯡꯕ ꯉꯝꯕ ꯑꯣꯏꯒꯗꯕꯅꯤ꯫

(4) ꯏꯁꯤꯡꯗ ꯌꯥꯎꯕ ꯃꯆꯤꯟꯖꯥꯛꯁꯤꯡ ꯆꯨꯝꯗꯨꯅ ꯍꯥꯏꯕꯗꯤ ꯐꯤꯜꯇꯔ ꯇꯧꯗꯨꯅ ꯆꯥꯕ ꯉꯝꯕ ꯑꯣꯏꯒꯗꯕꯅꯤ꯫

(5) A o M n i v r s

ꯍꯥꯏꯕꯗꯤ ꯄꯥꯝꯕꯤ ꯑꯃꯗꯤ
ꯁꯥ-ꯉꯥ ꯄꯨꯝꯅꯃꯛ ꯆꯥꯕ ꯉꯥ
ꯑꯣꯏꯒꯒꯕꯅꯤ꯫

(6) m C y u r o b i A e L

ꯄꯥꯔꯇꯤꯀꯜꯁꯁꯤꯡ ꯇꯨꯝꯕ
ꯉꯝꯕꯒꯤ ꯃꯒꯨꯟ ꯆꯦꯟꯕ ꯉꯥ
ꯑꯣꯏꯒꯗꯕꯅꯤ꯫

ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ
ꯇꯦꯛꯅꯣꯂꯣꯖꯤꯒꯤ ꯀꯥꯟꯅꯕꯁꯤꯡ:

1) ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯇꯦꯛꯅꯣꯂꯣꯖꯤ
ꯑꯁꯤ ꯑꯀꯣꯏꯕꯒꯤ ꯐꯤꯚꯝ
ꯀꯥꯏꯍꯟꯗꯕ ꯊꯧꯑꯣꯡ ꯑꯃꯅꯤ꯫

ꯍꯥꯏꯔꯤꯕ ꯊꯧꯑꯣꯡ ꯑꯁꯤꯗ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯏꯁꯤꯡꯁꯤꯡ ꯑꯁꯤ ꯄꯥꯠ, ꯇꯨꯔꯦꯜꯅꯆꯤꯡꯕꯗ
ꯇꯨꯔꯦꯜꯅꯆꯤꯡꯕꯗ ꯊꯥꯗꯣꯔꯛꯇꯕꯅ ꯃꯔꯝ ꯑꯣꯗꯨꯅ ꯑꯀꯣꯏꯕꯒꯤ ꯐꯤꯚꯝ ꯀꯥꯏꯍꯟꯗꯕꯗ ꯑꯁꯨꯛꯀꯤ
ꯃꯇꯤꯛ ꯀꯥꯟꯅꯕ ꯄꯤ꯫ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯍꯥꯏꯔꯕꯗ ꯉꯥ ꯌꯣꯛꯄꯗ ꯁꯤꯖꯤꯟꯅꯔꯝꯕ ꯏꯁꯤꯡꯗ ꯑꯣꯔꯒꯥꯅꯤꯛ
ꯃꯦꯠꯇꯔ, ꯂꯩꯍꯥꯎ ꯂꯩꯕ ꯄꯣꯠꯁꯛꯁꯤꯡ, ꯂꯥꯏꯅ ꯇꯤꯜꯅ ꯊꯣꯛꯍꯟꯕ ꯌꯥꯕ ꯃꯍꯤꯛꯅꯆꯤꯡꯕ ꯀꯌꯥꯃꯔꯨꯝ
ꯌꯥꯎꯔꯤ꯫ ꯇꯧꯏꯒꯨꯝꯕꯁꯨꯡ ꯃꯈꯣꯏꯁꯤꯡ ꯑꯁꯤ ꯑꯩꯈꯣꯏꯒꯤ ꯑꯀꯣꯏꯕꯗ ꯂꯩꯔꯤꯕ ꯄꯥꯠ, ꯇꯨꯔꯦꯜꯅꯆꯤꯡꯕ
ꯊꯥꯗꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯑꯀꯣꯏꯕꯒꯤ ꯈꯜ ꯀꯥꯏꯍꯟꯗꯕꯗ ꯑꯆꯧꯕ ꯊꯧꯗꯥꯡ ꯂꯧꯔꯤ꯫

2) ꯀꯥ ꯃꯅꯨꯡꯗ ꯄꯥꯡꯊꯣꯛꯄ ꯌꯥꯕ ꯑꯃꯗꯤ ꯏꯁꯤꯡ ꯁꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯅꯦꯝꯕ ꯃꯔꯝꯅ ꯑꯏꯪꯕ
ꯃꯐꯝꯗ ꯂꯩꯕ ꯍꯩꯅꯗꯕ ꯉꯥꯁꯤꯡ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯍꯥꯏꯔꯕꯗ ꯇꯨꯡꯍꯟꯕꯤꯒꯨꯝꯕ ꯉꯥꯁꯤꯡꯗ ꯑꯁꯨꯛꯀꯤ
ꯃꯇꯤꯛ ꯀꯥꯟꯅꯕ ꯄꯤ꯫

3) ꯉꯥꯒꯤ ꯃꯆꯤꯟꯖꯥꯛ ꯁꯦꯝꯕ ꯃꯇꯝꯗ ꯉꯥ ꯃꯀꯨꯞ ꯑꯃꯗꯤ ꯉꯥꯒꯤ ꯊꯥꯎ ꯑꯁꯨꯛꯀꯤ ꯃꯇꯤꯛ ꯆꯪꯏ꯫

ꯇꯧꯏꯒꯨꯝꯕꯁꯨꯡ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯃꯤꯜ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯔꯕꯗꯤ ꯉꯥ ꯀꯌꯥ ꯀꯟꯗꯨꯅ ꯑꯀꯣꯏꯕꯒꯤ ꯐꯤꯚꯝ
ꯀꯟꯕꯗ ꯑꯆꯧꯕ ꯊꯧꯗꯥꯡ ꯂꯧꯔꯤ꯫

ꯑꯄꯤꯛꯄ ꯖꯤꯕꯁꯤꯡ ꯍꯥꯏꯕꯗꯤ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯑꯁꯤꯒꯤ ꯃꯔꯨꯑꯣꯏꯕ ꯃꯊꯧ ꯑꯅꯤ ꯂꯩ꯫

(1) C:N ꯒꯤ ꯔꯦꯁꯤꯑꯣ ꯆꯥꯡ ꯋꯥꯡꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ Nitrogen ꯋꯥꯁꯇꯦ/compound ꯁꯤꯡ
ꯁꯤꯖꯤꯟꯅꯗꯨꯅ Meirobial protein ꯄꯨꯊꯣꯛꯇꯨꯅ ꯏꯁꯤꯡ
ꯐꯍꯜꯂꯤ꯫

(2) ꯉꯥꯗ ꯃꯆꯤ ꯑꯣꯏꯕ ꯃꯆꯤꯟꯖꯥꯛ ꯐꯪꯍꯟꯗꯨꯅ ꯉꯥꯒꯤ
ꯃꯆꯤꯟꯖꯥꯛ ꯂꯩꯕꯗ ꯆꯪꯒꯗꯧꯕ ꯁꯦꯜ ꯍꯟꯊꯍꯜꯂꯤ꯫

ꯑꯩꯈꯣꯏꯅ ꯉꯥꯒꯤ ꯃꯆꯤꯟꯖꯥꯛ ꯄꯤꯖꯕ ꯃꯇꯝꯗ ꯄ꯭ꯔꯣꯇꯤꯟ
ꯌꯥꯝꯅ ꯋꯥꯡꯕ ꯃꯆꯤꯟꯖꯥꯛ ꯄꯤꯖꯔꯕꯗꯤ ꯃꯗꯨꯗ ꯌꯥꯎꯔꯤꯕ
ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯑꯗꯨꯒꯤ ꯆꯥꯗ ꯍꯨꯝꯐꯨꯇꯔꯥꯗꯤ ꯑꯀꯣꯏꯕꯒꯤ
ꯏꯁꯤꯡꯗ ꯌꯥꯎꯗꯨꯅ ꯂꯩꯍꯧꯏ꯫ ꯍꯥꯏꯔꯤꯕ ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ
ꯑꯁꯤ ꯕꯥꯏꯑꯣꯐ꯭ꯂꯣꯛ ꯇꯦꯛꯅꯣꯂꯣꯖꯤꯗ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ
ꯃꯥꯏꯀ꯭ꯔꯣꯑꯣꯔꯒꯥꯅꯤꯖꯝꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯃꯇꯥꯡꯗ ꯌꯥꯝꯅ
ꯑꯣꯟꯊꯣꯛꯍꯟꯗꯨꯅ ꯉꯥꯒꯤ ꯃꯆꯤꯟꯖꯥꯛꯇ ꯆꯪꯒꯗꯧꯕ ꯁꯦꯜ
ꯍꯟꯊꯍꯜꯂꯤ꯫

(3) ꯕꯥꯎꯑꯣꯐ꯭ꯂꯣꯛ ꯇꯦꯛꯅꯣꯂꯣꯖꯤ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ
ꯇꯨꯡꯍꯟꯕꯤ ꯌꯣꯛꯄ ꯃꯇꯝꯗ ꯀ꯭ꯌꯨꯕꯤꯛ ꯃꯤꯇꯔ ꯑꯃꯒꯤ
ꯏꯁꯤꯉ ꯍꯥꯏꯕꯗꯤ ꯂꯤꯇꯔ 1000 ꯅꯠꯇ꯭ꯔꯒ ꯇꯣꯟ ꯑꯃꯒꯤ
ꯃꯐꯝꯗꯒꯤ ꯊꯥ ꯃꯉꯥꯗ ꯆꯥꯎꯔꯛꯅ ꯉꯥ ꯀꯤꯂꯣ ꯇꯔꯥꯃꯨꯛ
ꯄꯨꯊꯣꯛꯄ ꯉꯝꯃꯤ꯫