

Excellent Center Excellent Center of Waste Utilization and Manage

ÈÙ'ÀìϣÇÒÁà»ç'ìÀÔÈà©¼ÒÐ·ÒŞ'èÒ'ìÒÃ'Ñ'ìÒÃ

áÀÐãé»ÀÐãÁ¹ì"ÒìçìŞàÈÒÁíØµÈÒË;ÁÁÁ;ÒÁà;ÉµÃ

Excellent Center of Waste Utilization
and Management (ECoWaste)

ϣÇÒÁà»ç'ìÀÔçìŞÈÙ'Àì ECoWaste

ÈÙ'ÀìϣÇÒÁà»ç'ìÀÔÈà©¼ÒÐ·ÒŞ'èÒ'ìÒÃ'Ñ'ìÒÃ áÀÐãé»ÀÐãÁ¹ì"ÒìçìŞàÈÒÁíØµÈÒË;ÁÁÁ;ÒÁà;ÉµÃ (Excellent Center of W
ECoWaste à»ç'ìÈ'èÇÀŞÒ'ÀÒÁµéϣÇÒÁÁèÇÁÁ×ìçìŞÈ'Ò'Ñ'¼Ñ²'ÒáÀÐ½Òì'Í'ÁÁÁÁŞŞÒ'µé'áºº áÀÐ³³·ÁÑ¼ÁÒ;ÁÒÇÀÒ¼áÁÈ
ÈÙ'Àì¼Ñ'ì'ØìÇÒÈÇ;ÁÁÁáÀÐà·πá'áÁÁÒªÒÇÀÒ¼áÈèŞªÒµÒ (ã°áíà·π) ÈÓ'Ñ;ŞÒ'¼Ñ²'ÒÇÒ·ÁÒÈÒÈµÁíáÀÐà·πá'áÁÁÒªÈèŞªÒµ
á'ÁáÁÒèÁ"Òì;ÒÁÁÇÁ;ÁØèÁçìŞìÒ"ÒÁÁì 'Ñ;ÇÒ"ÑÁáÀÐÇÒÈÇ;Á·ÒèÈ'á"éÒ'ì;ÒÃ'Ò'Ñ'í'éÒàÈÒÁµÑéŞáµè»Ò ¼.È. 2523 á'Áá'è
'éÒàÈÒÁ"Òì;áÁŞŞÒ'á»éŞÁÑ'ÈÒ»ÐÈÁÑŞ á»éŞçéÒÇ 'éÒÁÑ'»ÒÁíÁ ÍÒÈÒÁáÀÐ¼ÁáÁé;ÁÐ»éìŞ á'Ááéà·πá'áÁÁÒªáººáÁéªéÍÒ
·ÒèÈÒÁÒÁ"Ò'Ò'Ñ'í'éÒàÈÒÁ áÀÐ¼ÁÒµ¼ÁÑŞŞÒ'á'é'éÇÁ;ÁÐÒÇ'ì;ÒÁá'ÒÁÇ;Ñ'ì'ŞÒ'ÇÒ"ÑÁçìŞ;ÁØèÁ'Òéá'éàÁÒèÁŞÒ'·ÒŞ'èÒ'ì;
ÈÑ;ÁÒ'·Áì ÁÙÁÒÁÑµ'·Òèà»ç'¼ÚéºØ;àºÒì "Òì;áπÁŞ;ÒÁ;ÒÁãé»ÀÐãÁ¹ì"ÒìçìŞàÈÒÁÁŞŞÒ'ìØµÈÒË;ÁÁÁ;ÒÁà;ÉµÃ «ÒèŞá'éÁÑ
(AAECP) á'ìϣÇÒÁÁèÇÁÁ×ìçìŞ ASEAN Working Group on Food Waste Materials á'áÁÒèÁÁÁ; áÀÐÍÒ"ÒÁÁì·ÑéŞ 2
·èÒ'á'é¼ÁÑ;Ñ'ì;èìÁÈéà;Ò'ì;ÁØèÁÇÒ"ÑÁá·πá'áÁÁÒ;èÒ«ªÒÇÀÒ¼çÒé'á'ÉÒÁÇÒªÒà·πá'áÁÁÒªªÒÇÀÒ¼ π³Ð¼ÁÑŞŞÒ'á'ÁÐÇÑ
µÑéŞíÁÙè·ÒèÁÈÒÇÒ·ÁÒÁÑÁá·πá'áÁÁÒª¼ÁÐ"ÍÁ;ÁéÒ 'ºØÁÒ – ºÒŞÁ' áÀÐãé»Ò 2539 ;ÁØèÁÇÒ"ÑÁ'ÒéÁÒ;ÒÁçÁÒÁŞ
"ÒŞá'éà»ÁÒèÁª×èìà»ç'ìÈéìŞ»ÒºÑµÒ;ÒÁÇÒ"ÑÁ'éÒ'ì;ÒÃ'Ñ'ì;ÒÁáÀÐãé»ÀÐãÁ¹ì"ÒìçìŞàÈÒÁ (Waste Utilization and Managen
áÀÐã'éÁèÒÁÁÒ·ÒèÁÈÒÇÒ·ÁÒÁÑÁá·πá'áÁÁÒª¼ÁÐ"ÍÁ;ÁéÒ 'ºØÁÒ – ºÒŞçØ'á·ÒÁ'áÁ×èìà»Ò ¼.È. 2543 µèìÁÒá'»Ò ¼
ã'éÁ;ÁÐ'ÑºçÒé'á»ç'ìÈÙ'ÀìϣÇÒÁà»ç'ìÀÔÈà©¼ÒÐ·ÒŞ'èÒ'ìÒÃ'Ñ'ìÒÃáÀÐãé»ÀÐãÁ¹ì"ÒìçìŞàÈÒÁíØµÈÒË;ÁÁÁ;ÒÁà;ÉµÃ «Ò

"Òì;ÒÁÇÒ"ÑÁáÀÐ¼Ñ²'ÒíÁèÒŞµéíà'×éìŞÁÒà»ç'ìàÇÁÒ;ÇèÒ 20 »Ò çìŞÈÙ'Àì ECoWaste ·ÒÁÈéŞÒ'·ÒŞ'èÒ'ì;èÒ«ªÒÇÀÒ¼·Òèà
«ÒèŞá'ÒÁà»ç'ì¼ÒÁŞÁÑ;É³Ð;ÒÁ¼ÁÒµ;èÒ«ªÒÇÀÒ¼á'ÁçÒ"πÇÒÁàçéÒã"·ÒŞÇÒ·ÁÒÈÒÈµÁíÁèÒŞá'é"ÁÒŞ ·ÒŞÈÙ'Àì ECoW
áÀÐÁÒà·πá'áÁÁÒª'ÁÐ'Ñ'ìØµÈÒË;ÁÁÁá'á'è'á'ÁÙÁÒÁÒπ'ÒéçìŞàìáªÒÁ ÁÒ;ÒÁãé»ÀÐãÁ¹ì"ÒìçìŞàÈÒÁÁÁÁ;ÒÁà;ÉµÃ

ÇÒÈÑÁ·ÑÈ'ì

ECoWaste ÁÒèŞÈÙèπÇÒÁà»ç'ìÈÙ'Àì²Ñé¹¹ÒçìŞÁÙÁÒÁÒπ á'ì;ÒÁ¼Ñ²'Òà·πá'áÁÁÒ;ÒÁ'Ñ'ì;ÒÁçìŞàÈÒÁíØµÈÒË;ÁÁÁ;ÒÁà;ÉµÃ
áÀÐã»ç'ìáÈÁèŞ¼ÁÑŞŞÒ'·á'¹

¼Ñ'ì;Ò

·Ò;ÒÁÇÒ"ÑÁáÀÐ¼Ñ²'Ò à¼×èì;ÒÁ»ÁÑº»ÁØŞ;ÁÐÒÇ'ì;ÒÁ¼ÁÒµá'ìØµÈÒË;ÁÁÁ;ÉµÃáÈéÁÒ;ÒÁãé·ÁÑ¼ÁÒ;ÁíÁèÒŞÁÒ»ÁÐÈ
á'Áá©¼ÒÐ·èÒ'ì;ÒÃ'Ò'Ñ'ìçìŞàÈÒÁáÀÐ;ÒÁ¼ÁÒµ;èÒ«ªÒÇÀÒ¼ à¼×èìÁÈÁèÒŞìŞπìϣÇÒÁÁÙé áÀÐà·πá'áÁÁÒ·ÒèàÈÁÒÐÈÁ ¼Ñ

à»éÒÈÀÒÀ

ÈÙ'Àì ECoWaste "ĐÁØèŞà'é'j;ÒÀÇÔ"ÑÀà¼xèÍj;ÒÀ¼Ñ²¹Òà·mâ'áÁÀÖj;ÒÁÍj;áººj;ÒÀ¼ÁÔµj;éÒ«ªÒÇÀÒ¼·ÒŞÇÒÈÇj;ÁÁÁ ŞÒ¹ÇÒ
áÁĐ¼xé¹º·ÒŞ'éÒ¹ÇÒÈÇj;ÁÁÁ à¼xèÍ¼Ñ²¹ÒáÈéÁĐºº·ÒŞÒ¹'á'éÍÀèÒŞàµÇÁ»ÁĐÈÒ·ÒÀÒ¼ÈÙŞÈØ' áÁĐà¼ÒèÁ»ÁĐÈÒ·ÒÀÒ
¹Íj;"Òj;¹ÒéÁÑŞÈÒj;ÈÒj;ÒÁ"Ñ'j;ÒÁÇÍŞàÈÒÁáÁĐj;ÒÁ¹ÒÇÍŞàÈÒÁá»ªªé»ÁĐàÁª¹i ÁÇÁ¶j;ÒŞj;ÒÁÁ'»ÁÒÁÒ³ÇÍŞàÈÒÁá¹ÍØµÈÒÈj;ÁÁÁj;
ÁÒà»éÒÈÀÒÀ·ÒèÈÒmÑ- à¼xèÍÈéŞàÈÁÒÁj;ÒÀÇÔ"ÑÀáÁĐ¼Ñ²¹Ò ¶èÒÁ·Í'à·mâ'áÁÀÖ»ÈÙèj;ÒÁáªéŞÒ¹'á¹ªÒŞ¼Ò³ÒªÁi ÁÇÁ·Ñ
Á'j;ÒÁ¼ÒèŞ¼Òà·mâ'áÁÀÖ"Òj;µèÒŞ»ÁĐà·È Á'j;ÒÁ¹ÒàÇéÒ¼ÁÑŞŞÒ¹àªxèÍ¼ÁÒŞ áÁĐÁ'j;ÒÁÈÙ-àÈÒÁàŞÒ¹µÁÒÍj;¹j;»ÁĐà·È à¼

j;ÁØèÁŞÒ¹ÇÔ"ÑÀ (Key Research Areas)

ŞÒ¹ÇÔ"ÑÀáÁĐ¼Ñ²¹Òá¹j;ÁØèÁ¹Òèà¹é¹ 4 á¹Ç·ÒŞÈÁÑj; mxi

- j;ÁØèÁŞÒ¹ÇÔ"ÑÀ'éÒ¹"ØÁÒ¹·ÁÒÁiÈÒj;ÈÒ (Microbiological and Biochemical Aspect) à¼xèÍÈÒj;ÈÒÇéÍÁÙÁ¼xé¹º·ÒŞ'éÒ¹"ØÁÒ¹·ÁÒÁiáÁĐªÒÇàµÁÒàj;ÒèÁÇj;Ñºj;ÁĐºÇ¹j;ÒÁÁèÍÁÈÁÒÁÈÒÁÍÒ¹·ÁÒÁiª¹ÈÁÒÇĐáÁèª
áÁĐº·º·mÇÒÁÈÑÁ¼Ñ¹j;ÇÍŞ"ØÁÒ¹·ÁÒÁiª¹ÁĐºººÒÑ¹éÒáÈÒÁáªªªéÍÒj;ÒÈ
- j;ÁØèÁŞÒ¹ÇÔ"ÑÀ'éÒ¹¶ÑŞ»"Òj;Á³j;¼Ñ²¹Ò (Reactor and Process Development) 'Òà¹Ò¹ŞÒ¹àj;ÒèÁÇj;Ñºj;ÒÁ¼Ñ²¹Ò¶ÑŞ»"Òj;Á³j;ª¹
ÈÒj;ÈÒà»ÁÒÁª·ÒÁº»ÁĐÈÒ·ÒÀÒ¼ª¹j;ÒÁººÑ¹¹éÒáÈÒÁ ÈÒj;ÈÒáÁĐ¼Ñ²¹Òj;ÁÁÁÇÔ Òª¹j;ÒÁÁÒèÁµé¹ÁĐºº (Start up) áÁĐ'Ù
·ÉÍ»ÁĐÈÒ·ÒÀÒ¼j;ÒÁººÑ¹¹éÒáÈÒÁª¹Ò'µèÒŞªªª¹¶ÑŞ»"Òj;Á³j;ÈÒj;ÈÒáÁĐ¼Ñ²¹Ò¶ÑŞ»"Òj;Á³j;Ò'Ñ¹éÒ«áÍá'Áà¹«ÑÁàj;¹á¹j;è
ÁÇÁ·ÑéŞÇÁÒÁ¼Áj;ÒÁÇÔ"ÑÀ·Òèª'é"Òj;ÈéÍŞ»"ÒºÑµÒj;ÒÁà¼xèÍ'Òà»ªªé"ÁÒŞª¹ÁĐ'Ñºj;µÈÒÈj;ÁÁÁ
- j;ÁØèÁŞÒ¹ÇÔ"ÑÀ'éÒ¹ÁĐººmÇºmÇÁáÁĐªºº"ÒÁÍŞ·ÒŞm³ÒµÈÒÈµÁi (Computational Aids and Process Optimization) 'Òà¹Ò¹ŞÒ¹à
·ÒèÈÒÁÒÁ¶·Ò¹ÒÁÈÁÒÇĐª¹ÁĐºººÒÑ¹¹éÒáÈÒÁáªªªéÍÒj;ÒÈª'éÍÁèÒŞáÁè'ÁÒáÁĐÁÇ'áÁÇÇ áÁĐ¼Ñ²¹ÒÁÙ»áººj;ÒÁÇºmÇº
- j;ÁØèÁŞÒ¹ÇÔ"ÑÀ'éÒ¹ÈÒèŞáÇ'ÁéÍÁáÁĐj;ÒÁ"Ñ'j;ÒÁ (Environmental Research and Management) ÈÒj;ÈÒ¶ÒŞmÇÒÁà»Ç'á'é
áÁĐmÇÒÁáÈÁÒÈÁÇÍŞj;ÒÁ¹Òà·mâ'áÁÀÖ·Òèª'é"Òj;ÈéÍŞ»"ÒºÑµÒj;ÒÁà»ÈÁéÒŞáÁĐªªéŞÒ¹"ÁÒŞª¹ÁĐ'Ñºj;µÈÒÈj;ÁÁÁ
ÈÒj;ÈÒáÁĐ»ÁĐàÁÒ¹¼Áj;ÁĐ·ºÇÍŞj;ÒÁj;èÍÈÁéÒŞÁĐºººÒÑ¹¹éÒáÈÒÁ·ÑéŞª¹áŞèÈÁÒÇĐáÇ'ÁéÍÁ àÈÁÈºj;Ò" áÁĐÈÑŞmÁ ÈÒj;ÈÒáÁ
ÁÇÁ·ÑéŞj;ÒÁµÒ'µÒÁáÁĐµÁÇ"»ÁĐàÁÒ¹áÁŞŞÒ¹ÍØµÈÒÈj;ÁÁÁ ÁĐºººÒÑ¹¹éÒáÈÒÁáªªªé·ÑéŞª¹áŞèj;ÒÁªªé·ÁÑ¼ÁÒj;Á j;ÒÁ

ŞÒ¹ÁÒj;ÒÁÁÁĐªÈéªº»ÁÒj;ÈÒ'éÒ¹ÈÒèŞáÇ'ÁéÍÁ

ÇÑµ¶¶»ÁĐÈŞm

ÈÙ'ÀìmÇÒÁà»Ç'á'ÁÒÈèàºº·ÒĐ·ÒŞ'éÒ¹j;ÒÁ"Ñ'j;ÒÁáÁĐªªªé»ÁĐàÁª¹"Òj;ÇÍŞàÈÒÁÍØµÈÒÈj;ÁÁÁj;ÒÁàj;ÈµÁ ÁÒÈèÇ¹ŞÒ¹ÁÒj;ÒÁÇÔ

- ÈèŞàÈÁÒÁj;ÒÁªªéÍŞmÇÒÁÁÙèª¹j;ÒÁ"Ñ'j;ÒÁáÁĐªªªé»ÁĐàÁª¹"Òj;ÇÍŞàÈÒÁá'Áà¹é¹ÍØµÈÒÈj;ÁÁÁj;ÒÁàj;ÈµÁ 'éÇÁà·mâ'áÁÀÖj;
à¼xèÍÁÈèª'é¼ÁÑŞŞÒ¹"Òj;ÈÒ"ªÒÇÀÒ¼áÁĐªèÇÁÁÑj;ÈÒÈÒèŞáÇ'ÁéÍÁ
- ºÁÒj;ÒÁÁÁĐªÈéªº»ÁÒj;ÈÒ'éÒ¹j;ÒÁ"Ñ'j;ÒÁÈÒèŞáÇ'ÁéÍÁ µÁí'á»Ç¹·Òè»ÁÒj;ÈÒá¹j;ÒÁÍj;áººÁĐºººÒÑ¹¹éÒáÈÒÁ
- ÁÑº·ÉÍªÁĐÈÒj;ÈÒÇÔ"ÑÀÁèÇÁj;ÑºÉ¹èÇÁŞÒ¹µèÒŞª·ÒèÈ¹ª"

- à»ç¹È¹èÇÀŞÒ¹»ÃÐÊÒ¹ŞÒ¹áÃÐ¹Ñ¹½Ö;í°ÃÁ à¾¼×èÍ¶èÒÁ·Í·ÇÒÁÃÙéáÃÐ»ÃÐÊ°;ÒÃ³¹Ò;¼ÙéàªÕèÃÇªÒ-ÊÙè;ÒÃªªéŞÒ¹"ÃÔŞ

;ÒÃÍ;á°°

- ÃÑ°»ÃÐàÁÒ¹áÃÐÊÒ;ÉÒÇÒÁà»ç¹ä»ä´éã¹;ÒÃ;èÍÊÃéÒŞÃÐ°°°ÓÑ¹´éÓàÊÕÃ

- ãËéªÓ»ÃÖ;ÉÒ Í;á°° áÃÐ;èÍÊÃéÒŞÃÐ°°°ÓÑ¹´éÓàÊÕÃ

- ãËéªÓ»ÃÖ;ÉÒ´éÒ¹;ÒÃªªé»ÃÐàÁ¹;¹Ò;èÒ«ªÕÇÀÒ¾¼

;ÒÃãËéªÓ»ÃÖ;ÉÒ

- ãËéªÓ»ÃÖ;ÉÒã¹;ÒÃÇª°ªØÁ´ÙáÃ;ÒÃ´Óà¹Ò¹ÃÐ°°°ÓÑ¹´éÓàÊÕÃ

- ÃÑ°´ÙáÃáÃÐµÒ´µÒÃÃÐ°°°ÓÑ¹´éÓàÊÕÃ

- µÃÇ"»ÃÐàÁÒ¹áÃÐª;éãÇÃÐ°°°ÓÑ¹´éÓàÊÕÃ·ÕèÃéÁàÊÃÇ

- ãËéªÓ»ÃÖ;ÉÒã¹;ÒÃãÃÕèÁµé¹ÃÐ°°°ÓÑ¹´éÓàÊÕÃ (Startup)

- ãËéªÓ»ÃÖ;ÉÒã¹;ÒÃ´Óà¹Ò¹;ÒÃÁ´;ÒÃªªéÊÒÃàªÁÕã¹ÃÐ°°°ÓÑ¹´éÓàÊÕÃ

- à»ç¹µé¹

·É¹áÃÐ»ÃÐàÁÒ¹¼Ã

- ·É¹áÃÐ»ÃÐàÁÒ¹ªÇÒÁÊÒÁÒÃ¶ã¹;ÒÃ¼ÃÒµ;èÒ«ªÕÇÀÒ¾¼"Ò;ÇÑÊ´Ø ÇÍŞàÊÕÃµèÒŞæ

- ·É¹ªÇÒÁà»ç¹¾¼ÕÉÇÍŞÊÒÃµèÒŞæµè;ÃÐ°Ç¹;ÒÃ¼ÃÒµ;èÒ«ªÕÇÀÒ¾¼

- ·É¹;ÒÃÃéÍÃÊÃÒÃÇÍŞàÊÕÃ·ÕèÊÃÒÇÐµèÒŞæ ã¹ÃÐ¹Ñ°ÊéÍŞ"Ò°ÑµÒ;ÒÃ

- ÃÑ°µÃÇ"»ÃÐàÁÒ¹»ÃÐÊÒ·ÒÀÒ¾¼ÇÍŞÃÐ°°°ÓÑ¹´éÓàÊÕÃ

- µÃÇ"»ÃÐàÁÒ¹;ÒÃªªé·ÃÑ¾¼Ò;Ã áÃÐ;ÒÃ¼ÃÒµÇÍŞàÊÕÃÇÍŞÃÐ°°µèÒŞæ

- á;éãÇ Á´;ÒÃ;èÍãËéà;Ò´ÇÍŞàÊÕÃã¹ÇÑé¹µí¹µèÒŞÇÍŞ;ÃÐ°Ç¹;ÒÃ¼ÃÒµ

- à»ç¹·Õè»ÃÖ;ÉÒã¹;ÒÃ»ÃÑ°»ÃØŞ;ÃÐ°Ç¹;ÒÃ¼ÃÒµ à¾¼×èÍÁ´»ÃÒÁÒ³ÇÍŞàÊÕÃ

- à»ç¹·Õè»ÃÖ;ÉÒã¹;ÒÃ¹Ñ¹;ÒÃÇÍŞàÊÕÃáÃÐ;ÒÃªªé»ÃÐàÁ¹;ÇÍŞàÊÕÃ

í°ÃÁ/ÊÑÁÁ¹Ò

- ÃÑ°Ñ¹½Ö;í°ÃÁ ÊÑÁÁ¹Ò ;ÒÃªªé»ÃÐàÁ¹;¹Ò;ÇÍŞàÊÕÃ»ÃÐàÁ·µèÒŞæ

- "N'íóÁÁ 'éò'á·π'Ôπ;ÔÃ'ÙáÁÁĐ⁰⁰⁰Ó⁰N'1'éÓàÉÔÁá⁰⁰áÁèã^aéÍÒ;ÒÈ
- ÍóÁÁÈÑÁÁ'Òà·π'Ôπ·Ò§'éò'á^a×éÍçÍ§ÁĐ⁰⁰⁰Ó⁰N'1'á⁰⁰áÁéÍÒ;ÒÈ

ÁÒ§ÇÑÁ·Ôèà'éÁÑ⁰

ÁĐ'Ñ⁰»ÁĐà·È

- ÁÒ§ÇÑÁ¼Á§Ò'ÇÔ"ÑÁÁĐ'Ñ^{0a}Áá^aÁ"Ò;ÉÀÒÇÔ"ÑÁáÈè§^aÒμÔ»ÁĐ"Ó»Ô 2545 ÈÒçÒÇÔÈÇ;ÁÁÁÈÒÈμÁì áÁĐÍØμÈÒÈ;ÁÁÁÇÔ ÍÒ;ÒÈ»ÁĐÈÔ, ÔÁÒ¼ÈÚ§á⁰⁰μÁÖ§à«ÁÁìÉÍÒÈÁÑ^{0a}Á§§Ó'ÍØμÈÒÈ;ÁÁÁ ”
- ÁÒ§ÇÑÁáπÁ§;ÔÁ'Ôà'è'1'éÒ'¼ÁÑ§§Ò'áÈÁéáÁĐÈÁØ'áÇÔÁ'çÍ§»ÁĐà·Èä·Á»ÁĐ"Ó»Ô 2546 »ÁĐà·È off-grid àÁ×éÍ§ “ áπÁ§;ÔÁ¼ÁÔμ;éÒ«^aÒÇÀÒ¼"Ô;ÁĐ⁰⁰⁰íÒ⁰N'1'éÓàÉÔÁá⁰⁰áÁéÍÒ;ÒÈá⁰⁰μÁÖ§;ÔÁìÁ"ØÁÔ'·ÁÔÁì ” "Ò;ÁÁ¼Ñ²¹Ô¼ÁÑ§§Ò'1'á⁰⁰áÁéÍÒ;ÒÈ»ÁĐÈÔ, ÔÁÒ¼ÈÚ§á⁰⁰μÁÖ§à«ÁÁìÉÍÒÈÁÑ^{0a}Á§§Ó'ÍØμÈÒÈ;ÁÁÁ ”
- ÁÒ§ÇÑÁÈÁÒÇÔ"ÑÁ »ÁĐà·È·ÁÒ§ÇÑÁÇÔ·ÁÒ'Ô¼; ÁĐ'Ñ^{0a}Áá^aÁ á¹ÉÒçÒÇÔ·ÁÒÈÒÈμÁì;ÔÁÒ¼áÁĐπ³ÔμÈÒÈμÁì »ÁĐ"Ó»Ô ÍÒ;ÒÈ»ÁĐÈÔ, ÔÁÒ¼ÈÚ§á⁰⁰μÁÖ§à«ÁÁìÉÍÒÈÁÑ^{0a}Á§§Ó'ÍØμÈÒÈ;ÁÁÁ ” á'Á'Á. á⁰·¼Á ÈÒ à»ç'ÍÒ"ÔÁÁì·Ôè»ÁÔ;ÉÒ
- á§§Ò'1^aÁà'ÁÔ- á'éÁÑ⁰ÁÒ§ÇÑÁ Taguchi’s Prize ÉÓÈÁÑ⁰ÀÒπá;á¹Ôà'è'1·Ò§'éò'á·π'áÁÁÔ^aÒÇÀÒ¼ á'Áá'éÁÑ⁰;ÔÁ á¹áÁ×éÍ§;ÔÁ"Ñ'í;ÔÁá§§Ò'áÁĐ⁰Ó⁰N'1'éÓàÉÔÁ"Ò;á§§Ò'¼ÁÔμá»é§ÁÑ'ÉÓ»ĐÈÁÑ§ ¼Ô, ÔÁ⁰ÁÒ§ÇÑÁÇÑ'·Ôè 3 ;ØÁÁÒ¼Ñ'í

ÁĐ'Ñ⁰¹Ò'Ò^aÒμÔ

- ÁÒ§ÇÑÁ Seed Award 2005 («ÁĐ"Ó»Ô¼·È. 2548) "Ò; SEED (Supporting Entrepreneurs for Environment and Development) ·Ç IUCN - The World Conservation Union, UNEP and UNDP ÁèÇÁ;Ñ⁰¹í§π;ÁμèÒ§æ ä'éáÈé;ÔÁÈ'Ñ^{0É}1Ø'á'áπÁ§;ÔÁ “Cows Kilowatts” ·ÔèàÈ'ÍáπÁ§;ÔÁá'Á Global Network for Environment and Economic Development Research (NGO) »ÁĐà·Èá'1 ÁèÇÁ;Ñ⁰ É'1èÇÁ§Ò'á'1 »ÁĐà·È á'éá;è Centre for Youth áÁĐ Family and the Law áÁĐ Sustainable Ibadan Project (UN-HABITAT Programme) ·Ôèã^aéà·π'á'áÁÁÔÁĐ⁰⁰⁰Ó⁰N'1'á⁰⁰μÁÖ§;ÔÁìÁ"ØÁÔ'·ÁÔÁì^{a1}Ô'áÁèã^aéÍÒ;ÒÈ (Anaerobic Fixed Film - AFF) çÍ§ÈÚ'Áì ·Ôè;ÁĐèÁá'é·Ò;ÔÁÇÔ"ÑÁ¼Ñ²¹ÔáÁĐÁÔπÇÔÁá^aÔèÁÇ^aÒ- á'Á·ÔÁ'Ñ;ÇÔ"ÑÁçÍ§ÈÚ'Áì·ÓÈ'1éÒ·ÔèÁÑ⁰¹Ô'á⁰⁰§Ò'1'éÒ'1;ÔÁÍ;á⁰⁰Á ÁÇÁπ⁰Ö§à»ç'·Ôè»ÁÔ;ÉÒáÁĐ;ÔÁ½Ô;Í⁰ÁÁ⁰ØπÁÔ;Á

¼Á§Ò'ÇÔ^aÒ;ÔÁ (Selected Publications)

ÁĐ'Ñ⁰¹Ò'Ò^aÒμÔ

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- Best Practice Environmental Management Guidelines for the Tapioca Processing Industry , Wastewater Treatment Technology Transfer and Cleaner Production Demonstration Project under ASEAN-Australia Economic Cooperation Program (AAECP) Phase III
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à»ç¹µé¹

§Ò¹ÇÔÑÁ·Õè´Òà¹Ô¹;ÒÃã¹ªèÇ§»Õ ¼.È . 2549-2551

- à»ç¹µé¹;ÒÃÈè§àÈÁÒÁ;ÒÃ¼ÁÔµ;èÒ «àÒÇÀÒ¾à¾×èìà»ç¹¾ÁÑ§§Ò¹.´á.¹ã¹ãÁ§§Ò¹ÍØµÈÒÈ;ÁÁÁ;ÒÃà;ÉµÃ
- ;ÒÃÈè§àÈÁÒÁ;ÒÃà;Ò´;ÒÁiÁªÒÇã¹ªèÇ§àÁÒèÁµé¹ÁÐºººÓÑ´¹éÒàÈÕÁãÁéÍÒ;ÒÈàººÀÙ;¼ÉÁ
- ;ÒÃµÃÇ´ÉÍºµÔ´µÒÁ;ÁÐèÁ»ÁÐººº;ÁÐººº·ÁÕÁi Syntrophic Acetogenic Bacteria ¢ÁÐºººÓÑ´¹éÒàÈÕÁãºººÁéÍÒ;ÒÈà´Áãªé 1 hybridization
- ;ÒÃÇÁÒÁÔ´Ò´ÇÍ§¶Ñ§»´Ò;Á³iÈÓÈÑº;ÒÃ¼ÁÔµ;èÒ «àÒÇÀÒ¾à´Áãªé·ÁÈ®Ò;ÒÃºººÇ¾ÁÈÒÈµÃiÇÍ§àÈÁ Computational fluid
- ;ÒÃ»ÁÐÁÐµ;µiãªé¶Ñ§»´Ò;Á³iãÁãªªéÍÒ;ÒÈàººÀÙ;¼ÉÁÈÓÈÑº;ÒÃ¼ÁÔµ;èÒ «àÒÇÀÒ¾à´ÁÐºººÓÑ´¹éÒàÈÕÁ»´Ò;àÁ§§Ò¹ÍØµÈ
- ÁÙ»ªºº;ÒÃàÁÒèÁµé¹ÁÐºº.ÒèàÈÁÒÐÈÁµè;ÁÐèÁ»ÁÐºº·ÁÕÁiã¹;ÒÁiÁªÒÇ à¾à¾èìÈè§àÈÁÒÁ»ÁÐÈÒ.ÒÀÒ¾;ÒÃ·Ò§Ò¹ÇÍ§¶Ñ§
- á¹Ç·Ò§;ÒÃÁ´;ÒÃÈÙ·àÈÕÁª»é§ÁÑ¹ÉÓ»ÐÈÁÑ§´éÇÁã¾Éã«à»Á¹
- ;ÒÃ¾Ñ²¹Òãíá´Áã «à»Á¹à¾à¾èìà¾ÒèÁ»ÁÐÈÒ.ÒÀÒ¾;ÒÃàÁ;ª»é§ÉÓÈÑºÈ¹èÇÁáÁ;ª»é§ÁÑ¹ÉÓ»ÐÈÁÑ§
- ¼ÁÇÍ§ÁÐÁãÁÐÇÒÁaÁÇÇÇÍ§¹éÓ©Õ´ã¹;ÒÃÈ;Ñ´á»é§ÇÍ§;ÁÐºÇ¹;ÒÃ¼ÁÔµª»é§ÁÑ¹ÉÓ»ÐÈÁÑ§
- áºº·ÓÁÍ§·ÒÁà¾à¾èìÇººººÁ;ÁÐºÇ¹;ÒÃiáÈè§á»é§ÁÑ¹ÉÓ»ÐÈÁÑ§
- à»ç¹µé¹;ÒÃÇÔÑÁªÁÐ¾Ñ²¹Ò;ÁÐºÇ¹;ÒÃ¼ÁÔµª»é§ÁÑ¹ÉÓ»ÐÈÁÑ§à¾à¾èìà¾ÒèÁ»ÁÐÈÒ.ÒÀÒ¾;È¹èÇÁ¼ÁÔµ áÁÐÁ´;ÒÃãªé·Á
- ;ÒÃÈÒ;ÉÒÈÑ;ÁÀÒ¾ªªÒÇÁÇÁÈÓÈÑº¼ÁÔµ;èÒ «àÒÇÀÒ¾à¹»ÁÐà·Èã·Á
- ;ÒÃÈÒ;ÉÒÈÑ;ÁÀÒ¾ªª·ááÁÁÒÈÓÈÑº¼ÁÔµ;èÒ «àÒÇÀÒ¾»Ò;ªÒÇÁÇÁã¹»ÁÐà·Èã·Á
- ;ÒÃÈÒ;ÉÒºº·ÓÁÍ§´Á¹ÈÒÈµÃiÇÍ§;ÒÃÁéiÁÈÁÒÁÇÍ§àÈÕÁ·ÒèÁÓÍ§»Á»ÁÐ;ªºº«ÁÁÙàÁÈà»ç¹ÉÁÑ;ªà¾à¾èì;ÒÃ¼ÁÔµÁÒà¹
- ;ÒÃµÃÇ´ÉÍºªªéì·ÁÐºº·ÁÕÁi·ÒèÁÒªÒÇÔµª´Áãªé carboxyfluorescein diacetate (cFDA) à¾à¾èìªªéì;ÒÃ»ÁÐàÁÒ¹ªªÉÁÑµÒÇÍ§àªªéì·ÁÐºº·ÁÕÁiµÑé§µé¹ÉÓÈÑºÁÐºººÓÑ´¹éÒàÈÕÁãºººÁéªªéÍÒ;ÒÈ
- ;ÒÃ»ÁÐàÁÒ¹àªª¹áÁÁÒáÁÐÈÑ;ÁÀÒ¾àÈÈÇÑÈ´Ø·Ò§;ÒÃà;ÉµÃáÁÐ¾ªª»ÁÙ;ªà¾à¾èì¾ÁÑ§§Ò¹ÈÓÈÑº;ÒÃ¼ÁÔµ;èÒ «àÒÇÀÒ¾à¾à¾èìà¾ÒèÁ»ÁÐÈÒ
- ;ÒÃªªé¶Ñ§»´Ò;Á³iºººÀÙ;¼ÉÁã¹;ÒÃºººÓÑ´¹éÒà¾à¾èìÈÁØ¹àÇÒÁ¹¹Ò;ÁÑºººÁÒªªéìáÁ§§Ò¹ª»é§ÁÑ¹ÉÓ»ÐÈÁÑ§ã¹ÁÐ´ÑºººÍØµÈÒÈ
- ;ÒÃÈÒ;ÉÒ»ÁÐººº;ÁÐººº·ÁÕÁi·Òèà;ÒèÁÇÇÇÍ§;Ñº;ÒÃà;Ò´;Ñ´;Áéi¹ÇÍ§·èìÈè§;èÒ«·ÁÁªºººµÔ´éÇÁà·ºººªªÒÇÇÒ·ÁÒàÁàÁ;Ø
- ;ÒÃ·ÒÇÒÁÈÉÍÒ´;èÒ «àÒÇÀÒ¾à´ÁÇÒ,Õ·Ò§ªÒÇÀÒ¾´éÇÁ Biofilter

- à»ç¹µé¹

°Ø««ÀÒ;Ã

«³Ð·Õè»ÃÖ;ÉÒ

- ÈÒÊµÃÒ"ÒÃÀì 'Ã. ÁÃµ µÑ¹µÔà"ÃÒ-
- ÃÍŞÈÒÊµÃÒ"ÒÃÀì 'Ã. ÈÑ;ÃÔ¹·Ãì ÀÙÁÔÃÑµ¹
- ÃÍŞÈÒÊµÃÒ"ÒÃÀì 'Ã. ÊØÇÔ·Ãì àµÕÃ
- ÃÍŞÈÒÊµÃÒ"ÒÃÀì 'Ã. âÊìÊ ÊØÇÃÃ³Ã×¹
- ÃÍŞÈÒÊµÃÒ"ÒÃÀì °ØÉÃÒ °Ø¹¹Ò«
- ÃÍŞÈÒÊµÃÒ"ÒÃÀì 'Ã. ÀÒÇÔ³Õ «ÑÃ»ÃÐàÊÃÔ°

¼ÙéíÓ¹ÇÂ;ÒÃÈÙ¹Ãì ECoWaste

- 'Ã. ÍÃÃ³¼ ¹¼ÃÑµ¹ì

«³Ð·ÓŞÒ¹

- 'Ã. °Ô¹¼ŞÈì ÇÑŞã¹
- «Ø³"Ş;Ã ¼Ù¹·ÇÕ
- «Ø³¹Ñ¹·ÔÃÒ à»»ÐµÑŞ
- «Ø³»ÃÐ·Ô¹ ;ØÃÃÐÇ³ÔªÃì
- «Ø³ÇÒÃÔ¹ ÃÑ;ÃèÇÁ
- «Ø³à;ÉÔ·Ôì à"ª¼ÔÃÔªÑÃ
- «Ø³¹ÔÃÒÃ"Õ °Ø-ÍÒ¼Ñ·Ôìà"ÃÔ-
- 'Ã. ÇÃ;ÃÉ ÊØÇ"ÔµµÒ¹¹·*
- 'Ã. ÊÃà;ÔÃÃµÔ àµª;Ò-"¹ÒÃÑ;Éì *
- 'Ã. à°-"¼Ã ÊØÃÒÃÑ;Éì *
- 'Ã·ÇÃÔ¹,Ã ÊŞ«ÈÔÃÔ*

- 'Ã.ÃÒÃÔ'Õ ÃÕâ.ªÇÃÔµ *
- ¢Ø³ÇØ²Ô³¼§Èì ÈÃÕ.Í§¢Ó *
- ¢Ø³¼Ã³¼Ã³ ¾Ô³ÔªÃì'ÓÈÔ¹ *

* °Ø¢¢ÃÒ;ÃÃÒÃãµé¢ÇÒÃÃèÇÃÃÍ;Ñ°ÈÙ¹Ãì¾Ñ¹,ØÇÕÈÇ;ÃÃÃáÃÐà.¢â¹ãÃÃÕªÕÇÃÒ¾áÈè§ªÒµÔ

.ÕèíÃÙèµÔ´µéí

ÈÙ¹Ãì¢ÇÒÃà»ç¹àÃÕÈà©¾ÒÐ.Ò§´éÒ¹;ÒÃÑ´;ìÒÃ áÃÐãªé»ÃÐãÃ¹ì"Ò;çÍ§àÈÕÃÍØµÈÒË;ÃÃÃ;ÒÃà;ÉµÃ
ÁÈÒÇÔ.ÃÒÃÑÃà.¢â¹ãÃÃÕ¾ÃÐ"ÍÃà;ÃéÒ,¹ºØÃÕ
àÃç.Õè 83 ÈÃÙè 8 áçÇ§.èÒçéÒÃ
àçµºÒ§çØ¹à.ÕÃ¹ ;ÃØ§à.¾ÃÈÒ¹¢Ã 10150

â.ÃÈÑ¾.ì 02-470-7469, 02-470-7520, 02-470-7521

â.ÃÈÒÃ 02-452-3455