

ภาคผนวก ข

คุณภาพเครื่องมือ ค่า IOC ค่าอำนาจจำแนก ค่าความเที่ยงตรง



## ตารางที่ ข. 1

ผลการพิจารณาความสอดคล้องของข้อกำหนดกับนิยามศัพท์ (IOC) ของผู้เชี่ยวชาญ และค่าอำนาจ  
จำแนกรายชื่อของแบบสอบถามการวิจัย เรื่องนวัตกรรมการจัดการและจริยธรรมทางธุรกิจเพื่อ  
สนับสนุนให้เกิดประสิทธิภาพของอุตสาหกรรมการผลิตในภาคตะวันออกเฉียงเหนือ

| รายละเอียด<br>หัวข้อ  | ผลการพิจารณาของ<br>ผู้เชี่ยวชาญ คนที่ |   |   |   |   | ค่า<br>IOC | ความสัมพันธ์ระหว่างคะแนนรายข้อกับ<br>คะแนน |         |             |
|-----------------------|---------------------------------------|---|---|---|---|------------|--|---------|-------------|
|                       | 1                                     | 2 | 3 | 4 | 5 |            | รายปัจจัย                                  | รายด้าน | รวมทั้งฉบับ |
| 1. นวัตกรรมจัดการ     |                                       |   |   |   |   |            |  |         |             |
| 1.1 นวัตกรรมผลิตภัณฑ์ |                                       |   |   |   |   |            |  |         |             |
| 1.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .544*                                      | .369*   | .503*       |
| 2.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .372*                                      | .351*   | .269*       |
| 3.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .619*                                      | .512*   | .665*       |
| 4.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .386*                                      | .335*   | .560*       |
| 5.                    | 1                                     | 1 | 0 | 1 | 1 | 0.80       | .455*                                      | .225*   | .349*       |
| 6.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .213*                                      | .329*   | .390*       |
| 1.2 นวัตกรรมกระบวนการ |                                       |   |   |   |   |            |  |         |             |
| 1.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .524*                                      | .450*   | .304*       |
| 2.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .631*                                      | .507*   | .410*       |
| 3.                    | 1                                     | 1 | 0 | 1 | 1 | 0.80       | .401*                                      | .369*   | .385*       |
| 4.                    | 1                                     | 1 | 0 | 1 | 1 | 0.80       | .455*                                      | .435*   | .349*       |
| 5.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .452*                                      | .415*   | .415*       |
| 6.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .585*                                      | .528*   | .539*       |
| 1.3 นวัตกรรมบริการ    |                                       |   |   |   |   |            |  |         |             |
| 1.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .585*                                      | .425*   | .557*       |
| 2.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .555*                                      | .463*   | .388*       |
| 3.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .469*                                      | .301*   | .452*       |
| 4.                    | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .427*                                      | .403*   | .540*       |

(ต่อ)

## ตารางที่ ข.1 (ต่อ)

| รายละเอียด<br>หัวข้อ        | ผลการพิจารณาของ    |   |   |   |   | ค่า<br>IOC | ความสัมพันธ์ระหว่างคะแนนราย |           |         |
|-----------------------------|--------------------|---|---|---|---|------------|-----------------------------|-----------|---------|
|                             | ผู้เชี่ยวชาญ คนที่ |   |   |   |   |            | ข้อกับคะแนน                 |           |         |
|                             | แบบสอบถาม          | 1 | 2 | 3 | 4 |            | 5                           | รายปัจจัย | รายด้าน |
| 5.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .291*                       | .286*     | .383*   |
| 6.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .430*                       | .398*     | .443*   |
| 2. จริยธรรมทางธุรกิจ        |                    |   |   |   |   |            |                             |           |         |
| 2.1 จริยธรรมที่มีต่อสังคม   |                    |   |   |   |   |            |                             |           |         |
| 1.                          | 1                  | 0 | 1 | 1 | 1 | 0.80       | .458*                       | .635*     | .540*   |
| 2.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .532*                       | .644*     | .573*   |
| 3.                          | 1                  | 1 | 0 | 1 | 1 | 0.80       | .454*                       | .566*     | .478*   |
| 4.                          | 1                  | 0 | 1 | 1 | 1 | 0.80       | .583*                       | .561*     | .648*   |
| 5.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .628*                       | .582*     | .533*   |
| 6.                          | 1                  | 1 | 0 | 1 | 1 | 0.80       | .608*                       | .577*     | .510*   |
| 2.2 จริยธรรมที่มีต่อลูกค้า  |                    |   |   |   |   |            |                             |           |         |
| 1.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .660*                       | .609*     | .621*   |
| 2.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .360*                       | .535*     | .310*   |
| 3.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .650*                       | .603*     | .519*   |
| 4.                          | 1                  | 1 | 0 | 1 | 1 | 0.80       | .472*                       | .541*     | .485*   |
| 5.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .604*                       | .500*     | .497*   |
| 6.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .376*                       | .431*     | .351*   |
| 2.3 จริยธรรมที่มีต่อพนักงาน |                    |   |   |   |   |            |                             |           |         |
| 1.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .481*                       | .294*     | .421*   |
| 2.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .288*                       | .339*     | .385*   |
| 3.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .662*                       | .542*     | .633*   |
| 4.                          | 1                  | 1 | 1 | 1 | 1 | 1.00       | .526*                       | .466*     | .449*   |

(ต่อ)

## ตารางที่ ข.1 (ต่อ)

| รายละเอียด<br>หัวข้อ            | ผลการพิจารณาของ<br>ผู้เชี่ยวชาญ คนที่ |   |   |   |   | ค่า<br>IOC | ความสัมพันธ์ระหว่างคะแนนรายข้อกับ<br>คะแนน |         |             |
|---------------------------------|---------------------------------------|---|---|---|---|------------|--|---------|-------------|
|                                 | แบบสอบถาม                             |   |   |   |   |            | รายปัจจัย                                  | รายด้าน | รวมทั้งฉบับ |
|                                 | 1                                     | 2 | 3 | 4 | 5 |            |  |         |             |
| 5.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .802*                                      | .780*   | .677*       |
| 6.                              | 1                                     | 1 | 0 | 1 | 1 | 0.80       | .517*                                      | .441*   | .520*       |
| 2.4 จริยธรรมที่มีต่อคู่แข่งชั้น |                                       |   |   |   |   |            |  |         |             |
| 1.                              | 1                                     | 0 | 1 | 1 | 1 | 0.80       | .604*                                      | .615*   | .497*       |
| 2.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .487*                                      | .286*   | .527*       |
| 3.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .462*                                      | .332*   | .437*       |
| 4.                              | 1                                     | 1 | 0 | 1 | 1 | 0.80       | .538*                                      | .640*   | .510*       |
| 5.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .309*                                      | .305*   | .506*       |
| 6.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .497*                                      | .455*   | .460*       |
| 2.5 การเป็นมิตรกับสิ่งแวดล้อม   |                                       |   |   |   |   |            |  |         |             |
| 1.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .526*                                      | .514*   | .449*       |
| 2.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .802*                                      | .869*   | .677*       |
| 3.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .802*                                      | .869*   | .677*       |
| 4.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .517*                                      | .472*   | .520*       |
| 3. ประสิทธิภาพอุตสาหกรรมการผลิต |                                       |   |   |   |   |            |  |         |             |
| 3.1 การเงิน                     |                                       |   |   |   |   |            |  |         |             |
| 1.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .464*                                      | .493*   | .458*       |
| 2.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .280*                                      | .361*   | .439*       |
| 3.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .742*                                      | .555*   | .753*       |
| 4.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .483*                                      | .598*   | .478*       |
| 5.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .618*                                      | .575*   | .678*       |
| 6.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .606*                                      | .506*   | .493*       |
| 3.2 ลูกค้า                      |                                       |   |   |   |   |            |  |         |             |
| 1.                              | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .629*                                      | .722*   | .528*       |

(ต่อ)

ตารางที่ ข.1 (ต่อ)

| รายละเอียด<br>หัวข้อ     | ผลการพิจารณาของ<br>ผู้เชี่ยวชาญ คนที่ |   |   |   |   | ค่า<br>IOC | ความสัมพัทธ์ระหว่างคะแนนรายข้อ<br>กับคะแนน |         |             |
|--------------------------|---------------------------------------|---|---|---|---|------------|--|---------|-------------|
|                          | 1                                     | 2 | 3 | 4 | 5 |            | รายปัจจัย                                  | รายด้าน | รวมทั้งฉบับ |
| แบบสอบถาม                |                                       |   |   |   |   |            |  |         |             |
| 2.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .492*                                      | .467*   | .504*       |
| 3.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .658*                                      | .616*   | .595*       |
| 4.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .685*                                      | .609*   | .678*       |
| 5.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .680*                                      | .650*   | .583*       |
| 6.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .679*                                      | .601*   | .598*       |
| 3.3 กระบวนการธุรกิจภายใน |                                       |   |   |   |   |            |  |         |             |
| 1.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .633*                                      | .547*   | .496*       |
| 2.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .646*                                      | .632*   | .588*       |
| 3.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .448*                                      | .454*   | .559*       |
| 4.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .565*                                      | .533*   | .638*       |
| 5.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .587*                                      | .487*   | .579*       |
| 6.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .488*                                      | .444*   | .544*       |
| 3.4 การเรียนรู้และพัฒนา  |                                       |   |   |   |   |            |  |         |             |
| 1.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .447*                                      | .389*   | .450*       |
| 2.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .453*                                      | .408*   | .411*       |
| 3.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .695*                                      | .666*   | .640*       |
| 4.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .710*                                      | .694*   | .695*       |
| 5.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .758*                                      | .755*   | .682*       |
| 6.                       | 1                                     | 1 | 1 | 1 | 1 | 1.00       | .522*                                      | .591*   | .434*       |

### ตารางที่ ข.2

ค่าความเชื่อมั่นของแบบสอบถาม เรื่องนวัตกรรมการจัดการและจริยธรรมทางธุรกิจเพื่อสนับสนุนให้เกิดประสิทธิภาพของอุตสาหกรรมการผลิตในภาคตะวันออกเฉียงเหนือ

| ปัจจัย                       | ค่าความเชื่อมั่น |
|------------------------------|------------------|
| นวัตกรรมการจัดการ            | .85              |
| จริยธรรมทางธุรกิจ            | .92              |
| ประสิทธิภาพอุตสาหกรรมการผลิต | .93              |
| <b>ทั้งหมด</b>               | <b>.96</b>       |

### ตารางที่ ข.3

ค่าความเชื่อมั่น โดยใช้วิธีคำนวณหาค่าสัมประสิทธิ์อัลฟา

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .963                   | 70         |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Item-Total Statistics |                               |                                   |  |  |
|-----------------------|-------------------------------|-----------------------------------|--|--|
|                       | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
| X1                    | 225.1750                      | 621.840                           | .503                                   | .962                                   |
| X2                    | 225.3000                      | 628.421                           | .269                                   | .963                                   |
| X3                    | 225.7750                      | 609.256                           | .665                                   | .961                                   |
| X4                    | 225.4250                      | 617.840                           | .560                                   | .962                                   |
| X5                    | 225.5000                      | 626.769                           | .349                                   | .962                                   |
| X6                    | 225.4750                      | 625.435                           | .309                                   | .963                                   |
| X7                    | 225.7500                      | 623.577                           | .304                                   | .963                                   |
| X8                    | 225.3500                      | 622.951                           | .410                                   | .962                                   |
| X9                    | 225.5000                      | 622.410                           | .385                                   | .962                                   |
| X10                   | 225.5000                      | 626.769                           | .349                                   | .962                                   |
| X11                   | 225.2500                      | 623.321                           | .415                                   | .962                                   |
| X12                   | 225.4750                      | 613.179                           | .539                                   | .962                                   |
| X13                   | 225.4750                      | 618.512                           | .557                                   | .962                                   |
| X14                   | 225.3500                      | 625.413                           | .388                                   | .962                                   |
| X15                   | 225.1000                      | 622.400                           | .452                                   | .962                                   |
| X16                   | 225.1750                      | 614.456                           | .540                                   | .962                                   |
| X17                   | 225.3250                      | 625.969                           | .363                                   | .962                                   |
| X18                   | 225.4250                      | 620.610                           | .443                                   | .962                                   |
| X19                   | 225.1750                      | 614.456                           | .540                                   | .962                                   |
| X20                   | 225.7250                      | 615.743                           | .573                                   | .962                                   |
| X21                   | 226.0000                      | 615.846                           | .478                                   | .962                                   |
| X22                   | 225.5750                      | 614.815                           | .648                                   | .962                                   |
| X23                   | 225.4000                      | 618.451                           | .533                                   | .962                                   |

(ต่อ)



ตารางที่ ข.3 (ต่อ)

|     | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
|-----|-------------------------------|-----------------------------------|--|--|
| X24 | 225.3750                      | 612.856                           | .510                                   | .962                                   |
| X25 | 225.6250                      | 611.984                           | .621                                   | .962                                   |
| X26 | 225.6000                      | 623.990                           | .310                                   | .963                                   |
| X27 | 225.5750                      | 619.994                           | .519                                   | .962                                   |
| X28 | 225.2250                      | 619.204                           | .485                                   | .962                                   |
| X29 | 225.3500                      | 618.285                           | .497                                   | .962                                   |
| X30 | 225.5000                      | 625.026                           | .351                                   | .962                                   |
| X31 | 225.4750                      | 623.589                           | .421                                   | .962                                   |
| X32 | 225.5000                      | 622.410                           | .385                                   | .962                                   |
| X33 | 225.4000                      | 614.041                           | .633                                   | .962                                   |
| X34 | 225.5250                      | 621.435                           | .449                                   | .962                                   |
| X35 | 225.4750                      | 610.974                           | .677                                   | .961                                   |
| X36 | 225.4250                      | 621.379                           | .520                                   | .962                                   |
| X37 | 225.3500                      | 618.285                           | .497                                   | .962                                   |
| X38 | 225.6250                      | 616.446                           | .527                                   | .962                                   |
| X39 | 225.4250                      | 620.815                           | .437                                   | .962                                   |
| X40 | 225.5250                      | 620.615                           | .510                                   | .962                                   |
| X41 | 225.3000                      | 622.010                           | .506                                   | .962                                   |
| X42 | 225.4250                      | 620.969                           | .460                                   | .962                                   |
| X43 | 225.5250                      | 621.435                           | .449                                   | .962                                   |
| X44 | 225.4750                      | 610.974                           | .677                                   | .961                                   |
| X45 | 225.4750                      | 610.974                           | .677                                   | .961                                   |
| X46 | 225.4250                      | 621.379                           | .520                                   | .962                                   |
| X47 | 225.5500                      | 617.946                           | .458                                   | .962                                   |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

|     | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
|-----|-------------------------------|-----------------------------------|--|--|
| X48 | 225.5000                      | 619.744                           | .439                                   | .962                                   |
| X49 | 225.3750                      | 618.087                           | .753                                   | .962                                   |
| X50 | 225.3000                      | 621.651                           | .478                                   | .962                                   |
| X51 | 225.3250                      | 613.199                           | .678                                   | .962                                   |
| X52 | 225.3750                      | 619.522                           | .493                                   | .962                                   |
| X53 | 225.3500                      | 618.233                           | .528                                   | .962                                   |
| X54 | 225.5500                      | 619.023                           | .504                                   | .962                                   |
| X55 | 225.6000                      | 615.785                           | .595                                   | .962                                   |
| X56 | 225.5000                      | 608.974                           | .678                                   | .961                                   |
| X57 | 225.5250                      | 611.948                           | .583                                   | .962                                   |
| X58 | 225.3250                      | 612.533                           | .598                                   | .962                                   |
| X59 | 225.3250                      | 616.379                           | .496                                   | .962                                   |
| X60 | 225.2500                      | 615.833                           | .588                                   | .962                                   |
| X61 | 225.4500                      | 621.228                           | .459                                   | .962                                   |
| X62 | 225.6000                      | 615.631                           | .638                                   | .962                                   |
| X63 | 225.4250                      | 616.097                           | .579                                   | .962                                   |
| X64 | 225.2500                      | 616.244                           | .544                                   | .962                                   |
| X65 | 225.4250                      | 622.251                           | .450                                   | .962                                   |
| X66 | 225.3500                      | 619.721                           | .411                                   | .962                                   |
| X67 | 225.3500                      | 609.054                           | .640                                   | .962                                   |
| X68 | 225.2750                      | 606.461                           | .695                                   | .961                                   |
| X69 | 225.3000                      | 611.651                           | .682                                   | .961                                   |
| X70 | 225.2250                      | 620.076                           | .434                                   | .962                                   |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
|                         | Valid                 | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables  
in the procedure.

b.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's             | N of Items |
| Alpha                  |            |
| .858                   | 18         |

| Item-Total Statistics |                               |                                   |  |  |
|-----------------------|-------------------------------|-----------------------------------|--|--|
|                       | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
| X1                    | 55.7500                       | 35.731                            | .544                                   | .848                                   |
| X2                    | 55.8750                       | 36.881                            | .372                                   | .854                                   |
| X3                    | 56.3500                       | 33.310                            | .619                                   | .843                                   |
| X4                    | 56.0000                       | 36.256                            | .386                                   | .854                                   |
| X5                    | 56.0750                       | 36.533                            | .455                                   | .851                                   |
| X6                    | 56.0500                       | 37.485                            | .213                                   | .862                                   |
| X7                    | 56.3250                       | 34.225                            | .524                                   | .848                                   |
| X8                    | 55.9250                       | 34.635                            | .631                                   | .844                                   |
| X9                    | 56.0750                       | 35.866                            | .401                                   | .854                                   |
| X10                   | 56.0750                       | 36.533                            | .455                                   | .851                                   |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

|     | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected Item-<br>Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
|-----|-------------------------------|-----------------------------------|---|--|
| X11 | 55.8250                       | 36.046                            | .452                                    | .851                                   |
| X12 | 56.0500                       | 33.331                            | .585                                    | .845                                   |
| X13 | 56.0500                       | 34.972                            | .585                                    | .846                                   |
| X14 | 55.9250                       | 35.815                            | .555                                    | .848                                   |
| X15 | 55.6750                       | 35.969                            | .469                                    | .851                                   |
| X16 | 55.7500                       | 35.064                            | .427                                    | .853                                   |
| X17 | 55.9000                       | 37.426                            | .291                                    | .857                                   |
| X18 | 56.0000                       | 35.692                            | .430                                    | .852                                   |

Case Processing Summary

|       |                       | N  | %     |
|-------|-----------------------|----|-------|
|       | Valid                 | 40 | 100.0 |
| Cases | Excluded <sup>a</sup> | 0  | .0    |
|       | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's<br>Alpha | N of Items |
|---------------------|------------|
| .929                | 28         |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Item-Total Statistics |                               |                                   |  |  |
|-----------------------|-------------------------------|-----------------------------------|--|--|
|                       | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
| X19                   | 86.6000                       | 116.708                           | .458                                   | .927                                   |
| X20                   | 87.1500                       | 116.592                           | .532                                   | .926                                   |
| X21                   | 87.4250                       | 116.353                           | .454                                   | .928                                   |
| X22                   | 87.0000                       | 116.513                           | .583                                   | .926                                   |
| X23                   | 86.8250                       | 115.892                           | .628                                   | .925                                   |
| X24                   | 86.8000                       | 112.831                           | .608                                   | .925                                   |
| X25                   | 87.0500                       | 113.741                           | .660                                   | .924                                   |
| X26                   | 87.0250                       | 118.692                           | .360                                   | .929                                   |
| X27                   | 87.0000                       | 116.205                           | .650                                   | .925                                   |
| X28                   | 86.6500                       | 117.669                           | .472                                   | .927                                   |
| X29                   | 86.7750                       | 115.512                           | .604                                   | .925                                   |
| X30                   | 86.9250                       | 119.712                           | .376                                   | .928                                   |
| X31                   | 86.9000                       | 118.708                           | .481                                   | .927                                   |
| X32                   | 86.9250                       | 120.276                           | .288                                   | .930                                   |
| X33                   | 86.8250                       | 114.866                           | .662                                   | .924                                   |
| X34                   | 86.9500                       | 117.433                           | .526                                   | .926                                   |
| X35                   | 86.9000                       | 112.092                           | .802                                   | .922                                   |
| X36                   | 86.8500                       | 118.541                           | .517                                   | .926                                   |
| X37                   | 86.7750                       | 115.512                           | .604                                   | .925                                   |
| X38                   | 87.0500                       | 116.869                           | .487                                   | .927                                   |
| X39                   | 86.8500                       | 117.823                           | .462                                   | .927                                   |
| X40                   | 86.9500                       | 117.792                           | .538                                   | .926                                   |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Item-Total Statistics |                               |                                   |  |  |
|-----------------------|-------------------------------|-----------------------------------|--|--|
|                       | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
| X41                   | 86.7250                       | 121.076                           | .309                                   | .929                                   |
| X42                   | 86.8500                       | 117.772                           | .497                                   | .927                                   |
| X43                   | 86.9500                       | 117.433                           | .526                                   | .926                                   |
| X44                   | 86.9000                       | 112.092                           | .802                                   | .922                                   |
| X45                   | 86.9000                       | 112.092                           | .802                                   | .922                                   |
| X46                   | 86.8500                       | 118.541                           | .517                                   | .926                                   |

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Cases                   | Valid                 | 40 | 100.0 |
|                         | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .930                   | 24         |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Item-Total Statistics |                               |                                   |  |  |
|-----------------------|-------------------------------|-----------------------------------|--|--|
|                       | Scale Mean if<br>Item Deleted | Scale Variance<br>if Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
| X47                   | 76.1500                       | 102.490                           | .464                                   | .929                                   |
| X48                   | 76.1000                       | 105.631                           | .280                                   | .932                                   |
| X49                   | 75.9750                       | 102.948                           | .742                                   | .926                                   |
| X50                   | 75.9000                       | 104.144                           | .483                                   | .929                                   |
| X51                   | 75.9250                       | 101.558                           | .618                                   | .927                                   |
| X52                   | 75.9750                       | 101.871                           | .606                                   | .927                                   |
| X53                   | 75.9500                       | 101.485                           | .629                                   | .927                                   |
| X54                   | 76.1500                       | 103.259                           | .492                                   | .929                                   |
| X55                   | 76.2000                       | 101.959                           | .583                                   | .927                                   |
| X56                   | 76.1000                       | 98.913                            | .685                                   | .925                                   |
| X57                   | 76.1250                       | 98.676                            | .680                                   | .926                                   |
| X58                   | 75.9250                       | 99.251                            | .679                                   | .926                                   |
| X59                   | 75.9250                       | 99.917                            | .633                                   | .926                                   |
| X60                   | 75.8500                       | 101.054                           | .646                                   | .926                                   |
| X61                   | 76.0500                       | 104.151                           | .448                                   | .929                                   |
| X62                   | 76.2000                       | 102.677                           | .565                                   | .928                                   |
| X63                   | 76.0250                       | 101.820                           | .587                                   | .927                                   |
| X64                   | 75.8500                       | 102.746                           | .488                                   | .929                                   |
| X65                   | 76.0250                       | 104.487                           | .447                                   | .929                                   |
| X66                   | 75.9500                       | 102.664                           | .453                                   | .930                                   |
| X67                   | 75.9500                       | 98.151                            | .695                                   | .925                                   |
| X68                   | 75.8750                       | 97.753                            | .710                                   | .925                                   |
| X69                   | 75.9000                       | 99.118                            | .758                                   | .924                                   |
| X70                   | 75.8250                       | 102.251                           | .522                                   | .928                                   |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
|                         | Valid                 | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .621                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X1                    | 16.0250                    | 3.769                          | .369                             | .572                             |
| X2                    | 16.1500                    | 3.823                          | .351                             | .578                             |
| X3                    | 16.6250                    | 2.856                          | .512                             | .499                             |
| X4                    | 16.2750                    | 3.640                          | .335                             | .583                             |
| X5                    | 16.3500                    | 4.131                          | .225                             | .619                             |
| X6                    | 16.3250                    | 3.610                          | .329                             | .586                             |

(ต่อ)



ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
|                         | Valid                 | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .712                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X7                    | 16.4250                    | 4.712                          | .450                             | .673                             |
| X8                    | 16.0250                    | 5.051                          | .507                             | .656                             |
| X9                    | 16.1750                    | 5.225                          | .369                             | .696                             |
| X10                   | 16.1750                    | 5.533                          | .435                             | .681                             |
| X11                   | 15.9250                    | 5.353                          | .415                             | .683                             |
| X12                   | 16.1500                    | 4.336                          | .528                             | .646                             |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .645                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X13                   | 17.1250                    | 3.753                          | .425                             | .584                             |
| X14                   | 17.0000                    | 3.897                          | .463                             | .576                             |
| X15                   | 16.7500                    | 4.090                          | .301                             | .628                             |
| X16                   | 16.8250                    | 3.379                          | .403                             | .595                             |
| X17                   | 16.9750                    | 4.230                          | .286                             | .632                             |
| X18                   | 17.0750                    | 3.661                          | .398                             | .593                             |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .822                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X19                   | 15.4250                    | 7.481                          | .635                             | .783                             |
| X20                   | 15.9750                    | 7.820                          | .644                             | .783                             |
| X21                   | 16.2500                    | 7.577                          | .566                             | .799                             |
| X22                   | 15.8250                    | 8.302                          | .561                             | .800                             |
| X23                   | 15.6500                    | 8.233                          | .582                             | .796                             |
| X24                   | 15.6250                    | 7.266                          | .577                             | .800                             |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
|                         | Valid                 | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .785                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X25                   | 16.2500                    | 5.423                          | .609                             | .733                             |
| X26                   | 16.2250                    | 5.717                          | .535                             | .753                             |
| X27                   | 16.2000                    | 6.010                          | .603                             | .739                             |
| X28                   | 15.8500                    | 5.926                          | .541                             | .751                             |
| X29                   | 15.9750                    | 5.974                          | .500                             | .761                             |
| X30                   | 16.1250                    | 6.471                          | .431                             | .775                             |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
|                         | Valid                 | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .738                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X31                   | 16.1750                    | 5.430                          | .294                             | .745                             |
| X32                   | 16.2000                    | 5.036                          | .339                             | .740                             |
| X33                   | 16.1000                    | 4.503                          | .542                             | .680                             |
| X34                   | 16.2250                    | 4.846                          | .466                             | .703                             |
| X35                   | 16.1750                    | 3.789                          | .780                             | .594                             |
| X36                   | 16.1250                    | 5.138                          | .441                             | .710                             |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .700                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X37                   | 16.2000                    | 3.908                          | .615                             | .593                             |
| X38                   | 16.4750                    | 4.666                          | .286                             | .711                             |
| X39                   | 16.2750                    | 4.666                          | .332                             | .692                             |
| X40                   | 16.3750                    | 4.189                          | .640                             | .596                             |
| X41                   | 16.1500                    | 5.054                          | .305                             | .694                             |
| X42                   | 16.2750                    | 4.461                          | .455                             | .652                             |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .838                   | 4          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X43                   | 9.7250                     | 3.230                          | .514                             | .858                             |
| X44                   | 9.6750                     | 2.328                          | .869                             | .695                             |
| X45                   | 9.6750                     | 2.328                          | .869                             | .695                             |
| X46                   | 9.6250                     | 3.522                          | .472                             | .870                             |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .760                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X47                   | 16.6250                    | 4.753                          | .493                             | .731                             |
| X48                   | 16.5750                    | 5.276                          | .361                             | .766                             |
| X49                   | 16.4500                    | 5.536                          | .555                             | .722                             |
| X50                   | 16.3750                    | 5.061                          | .598                             | .703                             |
| X51                   | 16.4000                    | 4.862                          | .575                             | .705                             |
| X52                   | 16.4500                    | 5.074                          | .506                             | .724                             |

(ต่อ)



ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .834                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X53                   | 16.0000                    | 7.487                          | .722                             | .787                             |
| X54                   | 16.2000                    | 8.318                          | .467                             | .833                             |
| X55                   | 16.2500                    | 7.782                          | .616                             | .806                             |
| X56                   | 16.1500                    | 7.310                          | .609                             | .807                             |
| X57                   | 16.1750                    | 7.071                          | .650                             | .799                             |
| X58                   | 15.9750                    | 7.410                          | .601                             | .809                             |

(ต่อ)

## ตารางที่ ข.3 (ต่อ)

| Item-Total Statistics   |                       |    |       |
|-------------------------|-----------------------|----|-------|
| Case Processing Summary |                       |    |       |
|                         |                       | N  | %     |
|                         | Valid                 | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
|                         | Total                 | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .770                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X59                   | 16.5250                    | 5.333                          | .547                             | .728                             |
| X60                   | 16.4500                    | 5.433                          | .632                             | .705                             |
| X61                   | 16.6500                    | 6.079                          | .454                             | .750                             |
| X62                   | 16.8000                    | 5.856                          | .533                             | .732                             |
| X63                   | 16.6250                    | 5.830                          | .487                             | .743                             |
| X64                   | 16.4500                    | 5.844                          | .444                             | .754                             |

(ต่อ)

ตารางที่ ข.3 (ต่อ)

| Case Processing Summary |                       |    |       |
|-------------------------|-----------------------|----|-------|
|                         |                       | N  | %     |
| Valid                   |                       | 40 | 100.0 |
| Cases                   | Excluded <sup>a</sup> | 0  | .0    |
| Total                   |                       | 40 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .817                   | 6          |

| Item-Total Statistics |                            |                                |                                  |                                  |
|-----------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|                       | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X65                   | 17.0000                    | 8.821                          | .389                             | .823                             |
| X66                   | 16.9250                    | 8.174                          | .408                             | .825                             |
| X67                   | 16.9250                    | 6.943                          | .666                             | .768                             |
| X68                   | 16.8500                    | 6.797                          | .694                             | .761                             |
| X69                   | 16.8750                    | 7.189                          | .755                             | .751                             |
| X70                   | 16.8000                    | 7.703                          | .591                             | .786                             |

