

## Project Design Matrix (PDM)

Version 3.0

Date of formulation: 4th January 2012

Project Title: 'the Project of Human Resource Development through Utilizing the Information Technology for Rural Community Vitalization'

Project Term :26<sup>th</sup> Apr 2009 – 10<sup>th</sup> Mar 2012 (2 years and 11 months) project sites: NECTEC at Science Park in Pathumthani Province, Mae Hong Son Province,

Target group: NECTEC, Schools, Communities, Local Authority in Mae Hong Son Province.

| Narrative Summary   | Objectively verifiable Indicators  | Means for obtaining Indicators  | Important Assumption   |
|---|--|---|--|
| [Super Goal] (Long term goal)<br>Enhancement of accessibility to Information Technologies (IT) in rural areas.  | 1. Expansion of internet access users among general households, schools and local business in rural areas.   | 1-1. NECTEC ICT Indicators<br>1-2. Report of Socio-Economic Survey by National Statistics Office (NSO)  |  |
| [Overall Goal] (Middle term goal)<br>Rural wireless communication system is applied for rural communities' vitalization.                                | 1. Provinces introducing the Rural Wireless Communication System.<br>2. Types and scale of users in the provinces introducing the Rural Wireless Communication System.   | 1&2<br>1) Interview Survey to NECTEC, NSTDA and NTC<br>2) NECTEC ICT Indicator  | The Government of Thailand sustains the current IT policy aiming at community development. |
| [Project Purpose]<br>To strengthen the capability of NECTEC in developing the effective rural wireless communication system in the Kingdom of Thailand. | 1. Development of the Rural Wireless Communication System Model which was examined by Trial Test.<br>2. Enhancement of knowledge and skills of NECTEC about technologies of Wireless Communication System.<br>3. Increase of Local trainers who have capacities for training and system operation.<br>4. Enhancement of skills and knowledge of Field Trial Testing.<br>5. Proposal and Recommendation made to NTC about proposed RWCS Model.<br>6. Satisfaction of model users in model site. | 1. The Study Report of RWCS '(Draft)<br>2-1. Interview Survey to NECTEC personnel, Japanese Experts, other actors<br>2-2. Evaluation Study Report of Trial Testing<br>3. The number of local trainers developed<br>4-1. Guideline for Field Trial Testing of Wireless Communication System<br>4-2. Monitoring report of Field Trial Testing<br>4-3. Interview Survey to NECTEC personnel, Japanese Experts, other actors<br>5. Proposal to NTC on Rural Wireless Communication Model<br>6. The result of Impact Survey (report) | NTC establishes the standards of Wireless Communication System                             |
| [Outputs]<br>1. Rural wireless communication model has been developed by NECTEC   | 1-1. Implementation of Trend Surveys of Wireless Communication technologies at Model site.<br>1-2. Knowledge and Skills acquired by the Trainees who participated to the Technical Training.<br>1-3. The design of Rural Wireless Community System Model and its parameter identified.<br>1-4. The Discussions held about feasibility and its usefulness of applications among related organizations.  | 1-1. Survey Report<br>1-2. Technical Training Report, Interview Surveys with Trainees<br>1-3. 'The Study Report of Rural Wireless Communication Network Development' (Draft), Interview Survey with developers, Japanese Experts, and other actors.<br>1-4. Meeting Records   | Personnel of NECTEC who were trained thru the Project continue to work at NECTEC           |

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| <p>2. Curriculum aimed to vitalize the rural areas will be developed by NECTEC in collaboration with local organizations in the Kingdom of Thailand.</p>  | <p>2-1. Quality and number of Curriculum developed by NECTEC in collaboration with local organizations<br/>                 2-2. Number of users who use e-Learning applications<sup>i</sup><br/>                 2-3. Quality and number of Contents<sup>ii</sup> developed by the users of Curriculum<sup>ii</sup></p>  | <p>2-1. Curriculum Developed, Users Satisfactory Survey, Number of access to the Curriculum<br/>                 2-2. Impact Survey(Report) with NECTEC<br/>                 2-3. Contents developed, Interview Survey with NECTEC and users (developer), Number of access to the contents</p>   |  |
| <p>[Activities]<br/> <b>1. Activities for Output1.</b><br/>                 1-1. To carry out the survey of wireless communication technologies trend at model site.<br/>                 1-2. To design and implement the wireless communication system at the model site.<br/>                 1-3. To conduct/support WiMAX equipment procurement and to conduct the On the Job Training (OJT) for installation (e.g. tower construction, construction supervision and acceptance).<br/>                 1-4. To conduct the "On the Job Training (OJT)" for NECTEC's personnel in the field of site planning and system design of WiMAX (Worldwide Interoperability for Microwave Access) and other training courses in Japan.<br/>                 1-5. To conduct training to the targeted local users using sample equipment.<br/>                 1-6. To test and measure the performance of wireless communication system including applications running (e.g. internet access, voice over IP, video conferencing, e-Learning, and e-Community)<br/>                 1-7. To examine and analyze the results of testing of wireless communication system and propose an evaluation study report including impact survey about socio-economic status.<br/>                 1-8. To investigate influence of the disaster to the Project and examine necessary countermeasures.<br/>                 1-9. To hold seminar to share the information about wireless communication system trial test with participants from relevant organizations, such as National Telecommunications Commission (hereinafter referred to as "NTC"), Universities, Institute, etc.<br/>                 1-10. To identify and recommend the technical regulations to relevant authorities to be applied for rural wireless communication system.</p> | [inputs]  |  | <p>Unforeseen natural calamity or disaster by forced major which affects the Field Trial Test does not occur.</p> <p>Personnel of NECTEC who were trained thru the Project continue to work at NECTEC.</p> |
|   | <p style="text-align: center;">[Thailand Side]</p> <p>(1) Human Resources (Counterparts personnel)</p> <p>1) Project Director(NECTEC)<br/>                 2) Project Manager(NECTEC)<br/>                 3) WiFi/WiMAX Research Members(NECTEC)<br/>                 4) Technical Staff(NECTEC)<br/>                 5) Other necessary project staff from NECTEC<br/>                 6) School Teachers as Trainer from Mae Hong Son Province</p> <p>(2) Facilities</p> <ul style="list-style-type: none"> <li>- Office for Japanese Experts(including telephone line and internet facility)</li> <li>- Other necessary facility for project activities</li> </ul> <p>(3) Budget for Project Activities</p> <ul style="list-style-type: none"> <li>- Cost for Field Trial Testing</li> <li>- Domestic Training of NECTEC personnel</li> </ul> | <p style="text-align: center;">[Japan Side]</p> <p>(1) Human Resources(Japanese experts)</p> <p>1) Japanese Experts as Chief Advisor: One person<br/>                 2) Other Japanese Experts for:<br/>                 System Design<br/>                 Site Planning<br/>                 Contents Development for e-Learning</p> <p>(2) Equipment and material</p> <p>Equipment and material for Trial Test(Including installation cost)<br/>                 Software for WiMAX Site Planning</p> <p>(3) Other necessary cost for Project Activities</p> <ul style="list-style-type: none"> <li>- Counterparts Training in Japan</li> <li>- Other</li> </ul> | <p>[Pre-conditions]<br/>                 Frequency allocation, which is required for the Trial Test, was allocated.</p> <p>The procurement of Equipment needed</p>   |

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| <p>1-11. To draft 'The Study Report of Rural Wireless Communication System Development'.</p> <p>1-12. To propose the developed rural wireless communication system model to NTC.</p> <p><b>2. Activities for Output2.</b></p> <p>2-1. To discuss with local school teachers and local authorities (e.g. governments, hospitals, police departments, libraries etc.) of Mae Hong Son Province to develop the curriculums.</p> <p>2-2. To collaborate with targeted local users for creating the sample contents for e-Learning.</p> <p>2-3. To conduct training for local instructors in Mae Hong Son Province.</p> <p>2-4. To facilitate training for local users by local instructors</p> <p>2-5. To conduct the impact survey about the use of contents of the said curriculum.</p> <p>2-6. To share the lessons learned from the Project with other related organizations, and promote the applications of the developed curriculums in other areas in the Kingdom of Thailand.</p> |  |  | <p>for the Trial Test is available.</p> |
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Word definition

i E-Learning Application(s): Existing application(s) (e.g. learning management system (LMS), video conference system etc.) used when conducting e-learning.

ii Contents: Defined as those materials used as eLearning. It is possible to place several contents in one curriculum. For example, if mathematics composes of "basic math content" and "basic math comprehension test", then it has one curriculum and two contents.

iii Curriculum: Defined as those subjects which use eLearning, not only at schools but also at governmental authorities, police departments, hospitals, and libraries. For example, "mathematics" and "computer basics" signify curriculum for school, whereas "hospital client service" for hospitals, and "library eBook management" for libraries.

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Modifications in PDM 3.0.

The following components were modified in PDM version 3.0.

Overall:

- Project Term was extended.

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Project Term: 26<sup>th</sup> Apr 2009 – 10<sup>th</sup> Mar 2012 (2 years and 11 months)

- The project delay due to the unprecedented flood, it forced NECTEC to suspend or limit its operation. Project Term was extended accordingly.

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## List of Japanese Experts Allocation

Project of Human Resource Development through Utilizing the Information Technology  
for Rural Community Vitalization

## (1) List of experts / Human Resources

| Name                        | Position                 | Period  |
|-----------------------------|--------------------------|---|
| Mr. Mamoru Yasui<br>安井 衛    | Chief Advisor/ Test Plan | 26 April 2009 - 26 June 2009<br>2 August 2009 - 12 December 2009<br>17 January 2010 - 7 February 2010<br>18 February 2010 - 28 May 2010<br>4 July 2010 - 7 August 2010<br>26 September 2010 - 27 November 2010<br>21 February 2011 - 26 March 2011<br>8 May 2011 - 4 June 2011<br>27 July 2011 - 10 September 2011<br>4 December 2011 - 24 December 2011<br>8 January 2012 - 10 March 2012  |
| Mr. Akira Kishimoto<br>岸本 明 | WiMAX System Design      | 10 May 2009 - 30 May 2009<br>2 August 2009 - 2 September 2009<br>4 October 2009 - 24 October 2009<br>18 November 2009 - 12 December 2009<br>7 January 2010 - 30 January 2010<br>14 February 2010 - 3 April 2010<br>18 April 2010 - 29 May 2010<br>27 June 2010 - 29 July 2010<br>12 September 2010 - 30 September 2010<br>10 November 2010 - 27 November 2010<br>9 January 2011 - 27 January 2011<br>6 March 2011 - 26 March 2011<br>8 May 2011 - 28 May 2011<br>17 July 2011 - 6 August 2011<br>25 August 2011 - 17 September 2011<br>4 December 2011 - 24 December 2011<br>8 January 2012 - 10 March 2012 |

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| <p>Mr. Yoji Murakami<br/>村上 洋治</p>     | <p>Site Plan</p>                          | <p>10 May 2009 - 30 May 2009<br/>16 August 2009 - 2 September 2009<br/>14 October 2009 - 12 December 2009<br/>7 January 2010 - 30 January 2010<br/>7 March 2010 - 29 May 2010<br/>4 July 2010 - 29 July 2010<br/>12 September 2010 - 30 September 2010<br/>7 November 2010 - 23 January 2011<br/>20 February 2011 - 10 March 2011<br/>25 May 2011 - 11 June 2011<br/>7 August 2011 - 27 August 2011<br/>7 December 2011 - 29 December 2011<br/>8 January 2012 - 14 January 2012<br/>21 January 2012 - 10 March 2012</p> |
| <p>Ms. Yuko Shiraishi<br/>白石 祐子</p>    | <p>E-Learning Contents Development</p>    | <p>10 May 2009 - 6 June 2009<br/>11 October 2009 - 12 December 2009<br/>21 February 2010 - 10 April 2010<br/>1 August 2010 - 28 August 2010<br/>26 September 2010 - 27 November 2010<br/>6 March 2011 - 26 March 2011<br/>16 May 2011 - 18 June 2011<br/>16 October 2011 - 28 October 2011<br/>8 January 2012 - 23 February 2012</p>  |
| <p>Ms. Mayuka Kobayashi<br/>小林 麻由香</p> | <p>Training Plan/ Project Coordinator</p> | <p>26 April 2009 - 23 May 2009<br/>27 May 2009 - 20 June 2009<br/>15 July 2009 - 2 September 2009<br/>18 October 2009 - 4 February 2010<br/>21 February 2010 - 3 April 2010<br/>21 April 2010 - 22 July 2010<br/>22 August 2010 - 26 February 2011<br/>29 May 2011 - 3 August 2011<br/>7 September 2011 - 28 October 2011<br/>11 December 2011 - 11 January 2012<br/>25 January 2012 - 10 March 2012</p>  |

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## List of Project Sites (Pai)

## Pai Site

| No | Site Code | Name (Thai)                   | Name (Eng)                               | Installation Model | GPS                        | Distance from Site to Base Station | Connection Type | Number of PC                     | Network Link        |
|----|-----------|-------------------------------|--|--------------------|----------------------------|------------------------------------|-----------------|----------------------------------|---------------------|
| 1  | C-SCH-01  | โรงเรียนพายวิทยาคาร           | Pai Wittayakarn School                   | SCH Type 1         | N19 21.372 E98 26.505      | 1.50 km                            | WIMAX CPE       | 100 PCs                          | ADSL 1 Mbps, IPstar |
| 2  | C-SCH-02  | โรงเรียนอนุบาลพาย             | Anuban Pai School                        | SCH Type 1         | N19 21.667 E98 26.450      | 1.88 km                            | WIMAX CPE       | 20 PCs, 2 wireless access points | ADSL 1 Mbps         |
| 3  | C-SCH-03  | โรงเรียนชุมชนบ้านแม่ฮี        | Baan Mae Hee Community School            | SCH Type 1         | N19 20.800 E98 27.137      | 0.45 km                            | WIMAX CPE       | 10 PCs                           | ADSL 512 kbps       |
| 4  | C-SCH-04  | โรงเรียนบ้านเวียงเหนือ        | Baan Wiang Nua School                    | SCH Type 1         | N19 22.585 E98 26.572      | 3.15 km                            | WIMAX CPE       | 10 PCs                           | ADSL 1 Mbps         |
| 5  | C-SCH-05  | โรงเรียนราชประชานุเคราะห์ 22  | Rajaprajanukroh 22 school                | SCH Type 2         | 19 23'20.15N, 98 24'27.97E | N/A                                | ADSL            | N/A                              | N/A                 |
| 6  | C-SCH-06  | โรงเรียนราชประชานุเคราะห์ 34  | Rajaprajanukroh 34 school                | SCH Type 2         | 19 32'27.97N, 98 16'3.50E  | N/A                                | ADSL            | N/A                              | N/A                 |
| 7  | C-GOV-01  | ที่ว่าการอำเภอพาย             | Pai District Office                      | GOV Type 1         | N19 21.533 E98 26.407      | 1.79 km                            | WIMAX CPE       | 10 PCs                           | ADSL 512 kbps       |
| 8  | C-GOV-02  | โรงพยาบาลพาย                  | Pai Hospital                             | GOV Type 1         | N19 17.703 E98 26.273      | 2.13 km                            | WIMAX CPE       | 50 PCs                           | ADSL 2 Mbps         |
| 9  | C-GOV-03  | เทศบาลอำเภอพาย                | Pai Municipality                         | GOV Type 1         | N19 21.571 E98 26.216      | 2.11 km                            | WIMAX CPE       | 50 PCs                           | ADSL 1 Mbps         |
| 10 | C-COM-01  | หมู่บ้านแม่ฮี-ศาลาลานกประสงค์ | Mae Yen Village - Multi-Purpose Pavilion | COM Type 1         | N19 21.048 E98 27.050      | 0.39 km                            | WIMAX CPE       | NONE                             | NONE                |
| 11 | C-BS-01   | ดอยพระธาตุแม่เย็น             | Mae Yen Mountain                         | BS Type 1          | N19 21.009 E98 27.271      | N/A                                | WIMAX CPE       | N/A                              | N/A                 |



**List of Equipment Provided by JICA**  
**The project of human resource development through utilizing the information technology for rural community vitalization**

Updated: 31 May 2011

| No.  | Date Registered | Name of Item              | Site Code                    | Place | Date Hand Over | Date Warranty Expiry | Warranty Information (2011) | Contractor Vender     | Contractor Buyer | Status | Procurement |
|------|-----------------|---------------------------|------------------------------|-------|----------------|----------------------|-----------------------------|-----------------------|------------------|--------|-------------|
| P-1  | 2010/12/1       | Tower                     | B-BS-02                      | MSR   | 2009/11/6      | 2012/9/1             | Info-1                      | Hatarr Wireless       | JDS              |        | JICA        |
| P-2  | 2010/12/1       | Tower                     | C-BS-01                      | PAI   | 2009/11/6      | 2012/9/1             |                             | Hatarr Wireless       | JDS              |        | JICA        |
| P-3  | 2010/12/1       | Cabinet                   | A-BS-01                      | MHS   | 2009/11/6      | 2012/9/1             |                             | Hatarr Wireless       | JDS              |        | JICA        |
| P-4  | 2010/12/1       | Cabinet                   | B-BS-02                      | MSR   | 2009/11/6      | 2012/9/1             |                             | Hatarr Wireless       | JDS              |        | JICA        |
| P-5  | 2010/12/1       | Cabinet                   | C-BS-01                      | PAI   | 2009/11/6      | 2012/9/1             |                             | Hatarr Wireless       | JDS              |        | JICA        |
| P-6  | 2010/12/1       | AcuLearn                  | A-CORE-01                    | MHS   | 2010/1/31      | No Warranty          | N/A                         | Multimedia Technology | JICA(T)          |        | JICA        |
| P-7  | 2010/12/1       | WiMAX equipment           | (see sheet "WiMAX list all") |       | 2010/7/28      | 2011/7/27            | Info-1                      | Toyota Tsusyo         | JICA(H)          |        | JICA        |
| P-8  | 2010/12/1       | Weather monitoring system | A-BS-01                      | MHS   |                |                      | N/A                         |                       | JICA(T)          |        | JICA        |
| P-9  | 2010/12/1       | Weather monitoring system | B-BS-02                      | MSR   |                |                      | N/A                         |                       | JICA(T)          |        | JICA        |
| P-10 | 2010/12/1       | Weather monitoring system | C-BS-01                      | PAI   |                |                      | N/A                         |                       | JICA(T)          |        | JICA        |
| P-11 | 2010/12/1       | Cabinet cooling system    | A-BS-01                      | MHS   | 2010/9/24      | 2012/9/1             | Info-3                      | Hatarr Wireless       | JICA(T)          |        | JICA        |
| P-12 | 2010/12/1       | Cabinet cooling system    | B-BS-02                      | MSR   | 2010/9/24      | 2012/9/1             |                             | Hatarr Wireless       | JICA(T)          |        | JICA        |
| P-13 | 2010/12/1       | Cabinet cooling system    | C-BS-01                      | PAI   | 2010/9/24      | 2012/9/1             |                             | Hatarr Wireless       | JICA(T)          |        | JICA        |

JICA(T) JICA Thailand  
 JICA(H) JICA Headquarter

**List of Equipment Provided by Japanese Side (WiMAX List ALL)**

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2  
Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment                               | Manufacturer | Specification  | Original Quantity | S/N                 | Site Name (Eng)       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|---|--------------|--|-------------------|---------------------|-----------------------|
| 1   | 12/30/2009      | BS Type 1                    | A-BS-01   | HW001-1      | 1-1 (1/2)               | WiMAX Base Station System                       | Alvarion     | Outdoor Antenna: Model:BS-RET-DDP-ANT 2.3-2.7<br>Model:BreezeMax 2500<br>WiMAX Base Station System<br>WiMAX Base Station System power device (built in device)<br>Software license | 1                 | 7603327             | Doi Kong Mu Mountain  |
| 2   | 12/30/2009      | BS Type 1                    | C-BS-01   | HW001-2      | 1-1 (2/2)               | WiMAX Base Station System                       | Alvarion     | Outdoor Antenna: Model:BS-RET-DDP-ANT 2.3-2.7<br>Model:BreezeMax 2500<br>WiMAX Base Station System<br>WiMAX Base Station System power device (built in device)<br>Software license | 1                 |                     | Mae Yen Mountain      |
| 3   | 12/30/2009      | BS Type 1                    | A-BS-01   | HW006-1      | 1-1-1                   | Cabinet   | Lead         | Model:LKE-31U-71   | 1                 | CAB01               | Doi Kong Mu Mountain  |
| 4   | 12/30/2009      | BS Type 1                    | A-BS-01   | HW014-1      | 1-2 (1/2)               | Switching Hub L2                                | D-Link       | Model:DGS-3426P  | 1                 | P1FF199000004       | Doi Kong Mu Mountain  |
| 5   | 12/30/2009      | BS Type 1                    | C-BS-01   | HW014-2      | 1-2 (2/2)               | Switching Hub L2                                | D-Link       | Model:DGS-3426P  | 1                 |                     | Mae Yen Mountain      |
| 6   | 12/30/2009      | BS Type 1                    | A-BS-01   | HW019-1      | 1-3 (1/2)               | UPS   | PCM          | Model:VGD-700RM  | 1                 | 10043900911         | Doi Kong Mu Mountain  |
| 7   | 12/30/2009      | BS Type 1                    | C-BS-01   | HW019-2      | 1-3 (2/2)               | UPS   | PCM          | Model:VGD-700RM  | 1                 |                     | Mae Yen Mountain      |
| 8   | 12/30/2009      | BS Type 2                    | B-BS-01   | HW001-3      | 2-1                     | WiMAX Base Station System                       | Alvarion     | Outdoor antenna cable Model:BS-RET-DDP-ANT 2.3-2.7<br>Model:BreezeMax 2500<br>WiMAX Base Station System<br>WiMAX Base Station System power device<br>Software license              | 1                 |                     | Doi Chang Mountain    |
| 9   | 12/30/2009      | BS Type 2                    | B-BS-01   | HW006-2      | 2-1-1                   | Cabinet   | Lead         | Model:LKE-31U-71   | 1                 |                     | Doi Chang Mountain    |
| 10  | 12/30/2009      | BS Type 2                    | B-BS-01   | HW014-3      | 2-2                     | Switching Hub L2                                | D-Link       | Model:DGS-3426P  | 1                 |                     | Doi Chang Mountain    |
| 11  | 12/30/2009      | BS Type 2                    | B-BS-01   | HW019-3      | 2-3                     | UPS   | PCM          | Model:VGD-700RM  | 1                 |                     | Doi Chang Mountain    |
| 12  | 12/30/2009      | BS Type 2                    | B-BS-01   | HW005-1      | 2-4                     | Wireless System Point to Point                  | Alvarion     | Model:BreezeNET B100   | 1                 |                     | Doi Chang Mountain    |
| 13  | 12/30/2009      | BS Type 3                    | B-BS-02   | HW001-4      | 3-1                     | WiMAX Base Station System                       | Alvarion     | Outdoor Antenna: Model:BS-RET-DDP-ANT 2.3-2.7<br>Model:BreezeMax 2500<br>WiMAX Base Station System<br>WiMAX Base Station System power device (built in device)<br>Software license | 1                 |                     | Jom Kitti Mountain    |
| 14  | 12/30/2009      | BS Type 3                    | B-BS-02   | HW006-3      | 3-1-1                   | Cabinet   | Lead         | Model:LKE-31U-71   | 1                 |                     | Jom Kitti Mountain    |
| 15  | 12/30/2009      | BS Type 3                    | B-BS-02   | HW014-4      | 3-2                     | Switching Hub L2                                | D-Link       | Model:DGS-3426P  | 1                 |                     | Jom Kitti Mountain    |
| 16  | 12/30/2009      | BS Type 3                    | B-BS-02   | HW019-4      | 3-3                     | UPS   | PCM          | Model:VGD-700RM  | 1                 |                     | Jom Kitti Mountain    |
| 17  | 12/30/2009      | BS Type 3                    | B-BS-02   | HW005-2      | 3-4                     | Wireless System Point to Point                  | Alvarion     | Model:BreezeNET B100   | 1                 |                     | Jom Kitti Mountain    |
| 18  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW002-1      | 4-1                     | WiMAX ASN Gateway System                        | Alvarion     | Model:NPU (ASN)<br>WiMAX ASNGateway System<br>Software license   | 1                 | included in HW001-1 | MHS Community College |
| 19  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW008-1      | 4-2                     | Rack Server Type 1 (WiMAX Management System)    | Alvarion/HP  | Model:DL-160G6, Windows Server 2008<br>Software AlvarSTAR Management Software  | 1                 | SGH945X2EB          | MHS Community College |
| 20  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW009-1      | 4-3                     | Rack Server Type 2 (DHCP + Performance Testing) | HP           | Model:DL320 G6, Linux CentOS, DHCP, IXChariot  | 1                 | SGH945X2E9          | MHS Community College |
| 21  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW008-2      | 4-4                     | Rack Server Type 1 (AAA + Database)             | HP           | Model:DL-160G6, Salans OS, AAA Software, MySQL   | 1                 | SGH945X2EH          | MHS Community College |
| 22  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW009-2      | 4-5                     | Rack Server Type 2 (SIP System)                 | brekeke/HP   | Model:DL320 G6, Linux CentOS<br>SIP software: included<br>Model:SIP Server v2.x  | 1                 | SGH945X2EA          | MHS Community College |

### List of Equipment Provided by Japanese Side (WiMAX List ALL)

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment                             | Manufacturer  | Specification  | Original Quantity | S/N           | Site Name (Eng)       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|---|---------------|--|-------------------|---------------|-----------------------|
| 23  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW009-3      | 4-6                     | Rack Server Type 2 (Network Monitoring)       | HP            | Model:DL320 G6, Linux CentOS, Cacti network monitoring software  | 1                 | SGH945X2E6    | MHS Community College |
| 24  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW009-4      | 4-7                     | Rack Server Type 2 (Log Server)               | HP            | Model:DL320 G6, Linux CentOS, Syslog-NG  | 1                 | SGH945X2E5    | MHS Community College |
| 25  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW008-3      | 4-8                     | Rack Server Type 1 (LearnSquare + Web server) | HP            | Model:DL-160G6, Linux CentOS, LearnSquare, Web server  | 1                 | SGH945X2EF    | MHS Community College |
| 26  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW008-4      | 4-9                     | Rack Server Type 1 (AcuLearn)                 | HP            | Model:DL-160G6, Windows Server 2008, Aculearn  | 1                 | SGH945X2ED    | MHS Community College |
| 27  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW014-5      | 4-10                    | Switching Hub L2                              | D-Link        | Model:DGS-3426P  | 1                 | P1FF19900003  | MHS Community College |
| 28  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW015-1      | 4-11                    | Switching Hub L3                              | D-Link        | Model:DGS-3627   | 1                 | P1J197000018  | MHS Community College |
| 29  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW017-1      | 4-12                    | Firewall L3                                   | D-Link        | Model:DFL-210  | 1                 | BS2L598000014 | MHS Community College |
| 30  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW018-1      | 4-13                    | Firewall L7                                   | Blue Coat     | Model:SG-210-25  | 1                 | 4409061087    | MHS Community College |
| 31  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW006-4      | 4-14                    | Cabinet                                       | Lead          | Model:LKE-31U-71   | 1                 | CAB02         | MHS Community College |
| 32  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW024        | 4-15                    | LAN Cable Set                                 | Kansai Densen | Model:NIL LAN cable set (100 rolled)   | 2                 |               | MHS Community College |
| 33  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW020-1      | 4-16                    | UPS for Server                                | PCM           | Model:VGD-5000RM Server connection cable set   | 1                 | 10044010911   | MHS Community College |
| 34  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW012-1      | 4-17                    | Computer Desktop                              | DELL          | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker  | 1                 | 55DK32S       | MHS Community College |
| 35  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW021-1      | 4-18                    | VoIP Telephone                                | WellTech      | Model:LP-201   | 1                 | J11NN5450     | MHS Community College |
| 36  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW007-1      | 4-19                    | Wi-Fi Router                                  | D-Link        | Model:DIR-300  | 1                 | P1DY299003705 | MHS Community College |
| 37  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW019-5      | 4-20                    | UPS   | PCM           | Model:VGD-700  | 1                 | 10043940911   | MHS Community College |
| 38  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW022-1      | 4-21                    | Display Monitor                               | HP            | Model:LV156W   | 1                 | CNC916PJP9    | MHS Community College |
| 39  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW023-1      | 4-22                    | KVM Switcher                                  | D-Link        | Model:DKVM-16  | 1                 | BSS419600001  | MHS Community College |
| 40  | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW010-1      | 4-23                    | Storage Unit                                  | Buffalo       | Model:TS-RX4.0TL/R5  | 1                 | 4588449100434 | MHS Community College |
| 41  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW001-5      | 5-1                     | WiMAX Base Station System                     | Alvarion      | Outdoor antenna: Model:BS-RET-DDP-ANT 2.3-2.7 Model:BreezeMax 2500 WiMAX Base Station System WiMAX Base Station System power device (built in device) Software license | 1                 |               | NECTEC Core           |
| 42  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW008-5      | 5-2                     | Rack Server Type 1 (LearnSquare)              | HP            | Model:DL-160G6, Linux CentOS, LearnSquare  | 1                 |               | NECTEC Core           |
| 43  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW008-6      | 5-3                     | Rack Server Type 1 (AcuLearn)                 | HP            | Model:DL-160G6   | 1                 |               | NECTEC Core           |
| 44  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW009-5      | 5-4                     | Rack Server Type 2 (DHCP)                     | HP            | Model:DL320 G6, Linux CentOS   | 1                 |               | NECTEC Core           |
| 45  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW008-7      | 5-5                     | Rack Server Type 1 (AAA and Database)         | HP            | Model:DL-160G6, Solaris OS, AAA Software, MySQL  | 1                 |               | NECTEC Core           |
| 46  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW009-6      | 5-6                     | Rack Server Type 2 (SIP)                      | brekeka/HP    | Model:DL320 G6, Linux CentOS SIP software included Model:SIP Server v2.x   | 1                 |               | NECTEC Core           |
| 47  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW009-7      | 5-7                     | Rack Server Type 2 (Network Monitoring)       | HP            | Model:DL320 G6, Linux CentOS, Cacti network monitoring software  | 1                 |               | NECTEC Core           |
| 48  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW009-8      | 5-8                     | Rack Server Type 2 (Log Server)               | HP            | Model:DL320 G6, Linux CentOS, Syslog-NG  | 1                 |               | NECTEC Core           |
| 49  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW014-6      | 5-9                     | Switching Hub L2                              | D-Link        | Model:DGS-3426P  | 1                 |               | NECTEC Core           |
| 50  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW015-2      | 5-10                    | Switching Hub L3                              | D-Link        | Model:DGS-3627   | 1                 |               | NECTEC Core           |
| 51  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW017-2      | 5-11                    | Firewall L3                                   | D-Link        | Model:DFL-210  | 1                 |               | NECTEC Core           |
| 52  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW006-5      | 5-12                    | Cabinet                                       | Lead          | Model:LKE-31U-71   | 1                 |               | NECTEC Core           |
| 53  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW024        | 5-13                    | LAN Cable set                                 | Kansai Densen | Model:NIL LAN cable set (100 rolled)   | 1                 |               | NECTEC Core           |
| 54  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW012-2      | 5-14                    | Computer Desktop                              | DELL          | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker  | 1                 | 65DK32S       | NECTEC Core           |

### List of Equipment Provided by Japanese Side (WiMAX List ALL)

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment       | Manufacturer | Specification                             | Original Quantity | S/N           | Site Name (Eng)                       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------------|--------------|---|-------------------|---------------|---------------------------------------|
| 55  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW021-2      | 5-15                    | VoIP Telephone          | WellTech     | Model:LP-201                              | 1                 |               | NECTEC Core                           |
| 56  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW022-2      | 5-16                    | Display Monitor         | HP           | Model:LV156W                              | 1                 | CNC916PJSX    | NECTEC Core                           |
| 57  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW023-2      | 5-17                    | KVM Switcher            | D-Link       | Model:DKVM-16                             | 1                 |               | NECTEC Core                           |
| 58  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW019-6      | 5-18 (1/2)              | UPS                     | PCM          | Model:VGD-700RM                           | 1                 |               | NECTEC Core                           |
| 59  | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW019-7      | 5-18 (2/2)              | UPS                     | PCM          | Model:VGD-700RM                           | 1                 |               | NECTEC Core                           |
| 60  | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW003-1      | 6-1 (1/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 | W902003299    | Hong Son Suksa School                 |
| 61  | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW003-2      | 6-1 (2/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Anuban MHS School                     |
| 62  | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW003-3      | 6-1 (3/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Sop Pong School                  |
| 63  | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW003-4      | 6-1 (4/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Mai School                       |
| 64  | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW003-5      | 6-1 (5/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Jomg Kum School                  |
| 65  | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW003-6      | 6-1 (6/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Muang MHS Municipal School            |
| 66  | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW003-7      | 6-1 (7/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Nawamin Vocational College            |
| 67  | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW003-8      | 6-1 (8/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Mae Sariang (Boripat Suksa) School    |
| 68  | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW003-9      | 6-1 (9/22)              | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Tongsawat Vittayakarn                 |
| 69  | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW003-10     | 6-1 (10/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Anuban Mae Sariang (Baan Pong) School |
| 70  | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW003-11     | 6-1 (11/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | 193th Baan Jom Jang Mitraparb         |
| 71  | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW003-12     | 6-1 (12/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Thairath Vittaya 33 (Baan Tung Prao)  |
| 72  | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW003-13     | 6-1 (13/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baanrai Vittaya                       |
| 73  | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW003-14     | 6-1 (14/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Mae Sariang Vocational School         |
| 74  | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW003-15     | 6-1 (15/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Huay Sai School                  |
| 75  | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW003-16     | 6-1 (16/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Nam Dip Community School         |
| 76  | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW003-17     | 6-1 (17/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Sri Moon Muang School            |
| 77  | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW003-18     | 6-1 (18/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Pai Vittayakarn School                |
| 78  | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW003-19     | 6-1 (19/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Anuban Pai School                     |
| 79  | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW003-20     | 6-1 (20/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Mae Hee Community School         |
| 80  | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW003-21     | 6-1 (21/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | Baan Wiang Nua School                 |
| 81  | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW003-22     | 6-1 (22/22)             | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S                     | 1                 |               | NECTEC School Simulation              |
| 82  | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW014-7      | 6-2 (1/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 | P1FF199000001 | Hong Son Suksa School                 |
| 83  | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW014-8      | 6-2 (2/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Anuban MHS School                     |
| 84  | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW014-9      | 6-2 (3/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Sop Pong School                  |
| 85  | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW014-10     | 6-2 (4/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Mai School                       |
| 86  | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW014-11     | 6-2 (5/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Jomg Kum School                  |
| 87  | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW014-12     | 6-2 (6/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Muang MHS Municipal School            |
| 88  | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW014-13     | 6-2 (7/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Nawamin Vocational College            |
| 89  | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW014-14     | 6-2 (8/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Mae Sariang (Boripat Suksa) School    |
| 90  | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW014-15     | 6-2 (9/22)              | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Tongsawat Vittayakarn                 |
| 91  | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW014-16     | 6-2 (10/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Anuban Mae Sariang (Baan Pong) School |
| 92  | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW014-17     | 6-2 (11/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | 193th Baan Jom Jang Mitraparb         |
| 93  | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW014-18     | 6-2 (12/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Thairath Vittaya 33 (Baan Tung Prao)  |
| 94  | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW014-19     | 6-2 (13/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baanrai Vittaya                       |
| 95  | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW014-20     | 6-2 (14/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Mae Sariang Vocational School         |
| 96  | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW014-21     | 6-2 (15/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Huay Sai School                  |
| 97  | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW014-22     | 6-2 (16/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Nam Dip Community School         |
| 98  | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW014-23     | 6-2 (17/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Sri Moon Muang School            |
| 99  | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW014-24     | 6-2 (18/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Pai Vittayakarn School                |
| 100 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW014-25     | 6-2 (19/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Anuban Pai School                     |
| 101 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW014-26     | 6-2 (20/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Mae Hee Community School         |
| 102 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW014-27     | 6-2 (21/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | Baan Wiang Nua School                 |
| 103 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW014-28     | 6-2 (22/22)             | Switching Hub L2        | D-Link       | Model:DGS-3426P                           | 1                 |               | NECTEC School Simulation              |
| 104 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW011-1      | 6-3 (1/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS | 1                 | SGH9420MBJ    | Hong Son Suksa School                 |
| 105 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW011-2      | 6-3 (2/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS | 1                 | SGH945PHRJ    | Anuban MHS School                     |

**List of Equipment Provided by Japanese Side (WiMAX List ALL)**

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment       | Manufacturer | Specification   | Original Quantity | S/N        | Site Name (Eng)                       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------------|--------------|---|-------------------|------------|---------------------------------------|
| 106 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW011-3      | 6-3 (3/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRZ | Baan Sop Pong School                  |
| 107 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW011-4      | 6-3 (4/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRT | Baan Mai School                       |
| 108 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW011-5      | 6-3 (5/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSN | Baan Jorng Kum School                 |
| 109 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW011-6      | 6-3 (6/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSV | Muang MHS Municipal School            |
| 110 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW011-7      | 6-3 (7/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSC | Newamin Vocational College            |
| 111 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW011-8      | 6-3 (8/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHR9 | Mae Sariang (Bonipat Suksa) School    |
| 112 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW011-9      | 6-3 (9/22)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRN | Tongsawat Vittayakarn                 |
| 113 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW011-10     | 6-3 (10/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS5 | Anuban Mae Sariang (Baan Pong) School |
| 114 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW011-11     | 6-3 (11/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRV | 193th Baan Jom Jang Mitraparb         |
| 115 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW011-12     | 6-3 (12/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRK | Thairath Vittaya 33 (Baan Tung Prao)  |
| 116 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW011-13     | 6-3 (13/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSR | Baanmai Vittaya                       |
| 117 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW011-14     | 6-3 (14/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSB | Mae Sariang Vocational School         |
| 118 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW011-15     | 6-3 (15/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRR | Baan Huay Sai School                  |
| 119 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW011-16     | 6-3 (16/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSG | Baan Nam Dip Community School         |
| 120 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW011-17     | 6-3 (17/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRG | Baan Sri Moon Muang School            |
| 121 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW011-18     | 6-3 (18/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS8 | Pai Vittayakarn School                |
| 122 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW011-19     | 6-3 (19/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRL | Anuban Pai School                     |
| 123 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW011-20     | 6-3 (20/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRD | Baan Mae Hee Community School         |
| 124 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW011-21     | 6-3 (21/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRY | Baan Wiang Nua School                 |
| 125 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW011-22     | 6-3 (22/22)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHST | NECTEC School Simulation              |
| 126 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW012-3      | 6-4 (1/22)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | BX5M32S    | Hong Son Suksa School                 |
| 127 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW012-4      | 6-4 (2/22)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | JX5M32S    | Anuban MHS School                     |
| 128 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW012-5      | 6-4 (3/22)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 6Y5M32S    | Baan Sop Pong School                  |
| 129 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW012-6      | 6-4 (4/22)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | FRDK32S    | Baan Mai School                       |



**List of Equipment Provided by Japanese Side (WiMAX List ALL)**

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| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment | Manufacturer | Specification   | Original Quantity | S/N     | Site Name (Eng)                       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------|--------------|---|-------------------|---------|---------------------------------------|
| 130 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW012-7      | 6-4 (5/22)              | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 4RDK32S | Baan Jorng Kum School                 |
| 131 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW012-8      | 6-4 (6/22)              | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | BY5M32S | Muang MHS Municipal School            |
| 132 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW012-9      | 6-4 (7/22)              | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 8RDK32S | Nawamin Vocational College            |
| 133 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW012-10     | 6-4 (8/22)              | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | DX5M32S | Mae Sariang (Boripat Suksa) School    |
| 134 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW012-11     | 6-4 (9/22)              | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 1Y5M32S | Tongsawat Vittayakarn                 |
| 135 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW012-12     | 6-4 (10/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | DY5M32S | Anuban Mae Sariang (Baan Pong) School |
| 136 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW012-13     | 6-4 (11/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 9RDK32S | 193th Baan Jom Jang Mittraparb        |
| 137 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW012-14     | 6-4 (12/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | FX5M32S | Thairath Vittaya 33 (Baan Tung Prao)  |
| 138 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW012-15     | 6-4 (13/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 8Y5M32S | Baanrai Vittaya                       |
| 139 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW012-16     | 6-4 (14/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | BRDK32S | Mae Sariang Vocational School         |
| 140 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW012-17     | 6-4 (15/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 2Y5M32S | Baan Huay Sai School                  |
| 141 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW012-18     | 6-4 (16/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | FY5M32S | Baan Nam Dip Community School         |
| 142 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW012-19     | 6-4 (17/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 5RDK32S | Baan Sri Moon Muang School            |
| 143 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW012-20     | 6-4 (18/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 3Y5M32S | Pai Vittayakarn School                |
| 144 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW012-21     | 6-4 (19/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | CRDK32S | Anuban Pai School                     |
| 145 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW012-22     | 6-4 (20/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | CY5M32S | Baan Mae Hee Community School         |
| 146 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW012-23     | 6-4 (21/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | HX5M32S | Baan Wiang Nua School                 |
| 147 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW012-24     | 6-4 (22/22)             | Computer Desktop  | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | CX5M32S | NECTEC School Simulation              |

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| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment | Manufacturer | Specification | Original Quantity | S/N           | Site Name (Eng)                       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------|--------------|---------------|-------------------|---------------|---------------------------------------|
| 148 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW021-3      | 6-5 (1/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | J11NWS449     | Hong Son Suksa School                 |
| 149 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW021-4      | 6-5 (2/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | P1DY299003945 | Anuban MHS School                     |
| 150 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW021-5      | 6-5 (3/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | 10043960911   | Baan Sop Pong School                  |
| 151 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW021-6      | 6-5 (4/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | 10043950911   | Baan Mai School                       |
| 152 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW021-7      | 6-5 (5/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baan Jomg Kum School                  |
| 153 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW021-8      | 6-5 (6/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Muang MHS Municipal School            |
| 154 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW021-9      | 6-5 (7/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Nawamin Vocational College            |
| 155 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW021-10     | 6-5 (8/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Mae Sariang (Boripat Suksa) School    |
| 156 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW021-11     | 6-5 (9/22)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Tongsawat Vittayakarn                 |
| 157 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW021-12     | 6-5 (10/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Anuban Mae Sariang (Baan Pong) School |
| 158 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW021-13     | 6-5 (11/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | 193th Baan Jom Jang Mittraparb        |
| 159 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW021-14     | 6-5 (12/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Thairath Vittaya 33 (Baan Tung Prao)  |
| 160 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW021-15     | 6-5 (13/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baanrai Vittaya                       |
| 161 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW021-16     | 6-5 (14/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Mae Sariang Vocational School         |
| 162 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW021-17     | 6-5 (15/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baan Huay Sai School                  |
| 163 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW021-18     | 6-5 (16/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baan Nam Dip Community School         |
| 164 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW021-19     | 6-5 (17/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baan Sri Moon Muang School            |
| 165 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW021-20     | 6-5 (18/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Pai Vittayakarn School                |
| 166 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW021-21     | 6-5 (19/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Anuban Pai School                     |
| 167 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW021-22     | 6-5 (20/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baan Mae Hee Community School         |
| 168 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW021-23     | 6-5 (21/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Baan Wiang Nua School                 |
| 169 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW021-24     | 6-5 (22/22)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | NECTEC School Simulation              |
| 170 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW007-2      | 6-6 (1/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 | P1DY299003945 | Hong Son Suksa School                 |
| 171 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW007-3      | 6-6 (2/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 | 10043960911   | Anuban MHS School                     |
| 172 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW007-4      | 6-6 (3/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 | 10043950911   | Baan Sop Pong School                  |
| 173 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW007-5      | 6-6 (4/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Mai School                       |
| 174 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW007-6      | 6-6 (5/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Jomg Kum School                  |
| 175 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW007-7      | 6-6 (6/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Muang MHS Municipal School            |
| 176 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW007-8      | 6-6 (7/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Nawamin Vocational College            |
| 177 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW007-9      | 6-6 (8/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Mae Sariang (Boripat Suksa) School    |
| 178 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW007-10     | 6-6 (9/22)              | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Tongsawat Vittayakarn                 |
| 179 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW007-11     | 6-6 (10/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Anuban Mae Sariang (Baan Pong) School |
| 180 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW007-12     | 6-6 (11/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | 193th Baan Jom Jang Mittraparb        |
| 181 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW007-13     | 6-6 (12/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Thairath Vittaya 33 (Baan Tung Prao)  |
| 182 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW007-14     | 6-6 (13/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baanrai Vittaya                       |
| 183 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW007-15     | 6-6 (14/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Mae Sariang Vocational School         |
| 184 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW007-16     | 6-6 (15/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Huay Sai School                  |
| 185 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW007-17     | 6-6 (16/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Nam Dip Community School         |
| 186 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW007-18     | 6-6 (17/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Sri Moon Muang School            |
| 187 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW007-19     | 6-6 (18/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Pai Vittayakarn School                |
| 188 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW007-20     | 6-6 (19/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Anuban Pai School                     |
| 189 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW007-21     | 6-6 (20/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Mae Hee Community School         |
| 190 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW007-22     | 6-6 (21/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | Baan Wiang Nua School                 |
| 191 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW007-23     | 6-6 (22/22)             | Wi-Fi Router      | D-Link       | Model:DIR-300 | 1                 |               | NECTEC School Simulation              |
| 192 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW019-8      | 6-7 (1/44)              | UPS               | PCM          | Model:VGD-700 | 1                 | 10043960911   | Hong Son Suksa School                 |
| 193 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW019-9      | 6-7 (2/44)              | UPS               | PCM          | Model:VGD-700 | 1                 | 10043950911   | Hong Son Suksa School                 |
| 194 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW019-10     | 6-7 (3/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Anuban MHS School                     |
| 195 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW019-11     | 6-7 (4/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Anuban MHS School                     |
| 196 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW019-12     | 6-7 (5/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Baan Sop Pong School                  |
| 197 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW019-13     | 6-7 (6/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Baan Sop Pong School                  |
| 198 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW019-14     | 6-7 (7/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Baan Mai School                       |
| 199 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW019-15     | 6-7 (8/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Baan Mai School                       |
| 200 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW019-16     | 6-7 (9/44)              | UPS               | PCM          | Model:VGD-700 | 1                 |               | Baan Jomg Kum School                  |
| 201 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW019-17     | 6-7 (10/44)             | UPS               | PCM          | Model:VGD-700 | 1                 |               | Baan Jomg Kum School                  |

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| No. | Date Registered | Installation Model/Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment | Manufacturer  | Specification                        | Origin of Quantity | S/N | Site Name (Eng)                       |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------|---------------|--------------------------------------|--------------------|-----|---------------------------------------|
| 202 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW019-18     | 6-7 (11/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Muang MHS Municipal School            |
| 203 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW019-19     | 6-7 (12/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Muang MHS Municipal School            |
| 204 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW019-20     | 6-7 (13/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Nawamin Vocational College            |
| 205 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW019-21     | 6-7 (14/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Nawamin Vocational College            |
| 206 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW019-22     | 6-7 (15/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Mae Sariang (Boripat Suksa) School    |
| 207 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW019-23     | 6-7 (16/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Mae Sariang (Boripat Suksa) School    |
| 208 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW019-24     | 6-7 (17/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Tongsawat Vittayakarn                 |
| 209 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW019-25     | 6-7 (18/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Tongsawat Vittayakarn                 |
| 210 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW019-26     | 6-7 (19/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Anuban Mae Sariang (Baan Pong) School |
| 211 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW019-27     | 6-7 (20/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Anuban Mae Sariang (Baan Pong) School |
| 212 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW019-28     | 6-7 (21/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | 193th Baan Jom Jang Mittraparb        |
| 213 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW019-29     | 6-7 (22/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | 193th Baan Jom Jang Mittraparb        |
| 214 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW019-30     | 6-7 (23/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Thairath Vittaya 33 (Baan Tung Prao)  |
| 215 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW019-31     | 6-7 (24/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Thairath Vittaya 33 (Baan Tung Prao)  |
| 216 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW019-32     | 6-7 (25/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baanrai Vittaya                       |
| 217 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW019-33     | 6-7 (26/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baanrai Vittaya                       |
| 218 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW019-34     | 6-7 (27/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Mae Sariang Vocational School         |
| 219 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW019-35     | 6-7 (28/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Mae Sariang Vocational School         |
| 220 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW019-36     | 6-7 (29/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Huay Sai School                  |
| 221 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW019-37     | 6-7 (30/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Huay Sai School                  |
| 222 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW019-38     | 6-7 (31/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Nam Dip Community School         |
| 223 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW019-39     | 6-7 (32/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Nam Dip Community School         |
| 224 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW019-40     | 6-7 (33/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Sri Moon Muang School            |
| 225 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW019-41     | 6-7 (34/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Sri Moon Muang School            |
| 226 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW019-42     | 6-7 (35/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Pai Vittayakarn School                |
| 227 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW019-43     | 6-7 (36/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Pai Vittayakarn School                |
| 228 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW019-44     | 6-7 (37/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Anuban Pai School                     |
| 229 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW019-45     | 6-7 (38/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Anuban Pai School                     |
| 230 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW019-46     | 6-7 (39/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Mae Hee Community School         |
| 231 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW019-47     | 6-7 (40/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Mae Hee Community School         |
| 232 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW019-48     | 6-7 (41/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Wiang Nua School                 |
| 233 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW019-49     | 6-7 (42/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | Baan Wiang Nua School                 |
| 234 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW019-50     | 6-7 (43/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | NECTEC School Simulation              |
| 235 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW019-51     | 6-7 (44/44)             | UPS               | PCM           | Model:VGD-700                        | 1                  |     | NECTEC School Simulation              |
| 236 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW024        | 6-8 (1/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Hong Son Suksa School                 |
| 237 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW024        | 6-8 (2/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Anuban MHS School                     |
| 238 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW024        | 6-8 (3/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Sop Pong School                  |
| 239 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW024        | 6-8 (4/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Mai School                       |
| 240 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW024        | 6-8 (5/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Jomg Kum School                  |
| 241 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW024        | 6-8 (6/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Muang MHS Municipal School            |
| 242 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW024        | 6-8 (7/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Nawamin Vocational College            |
| 243 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW024        | 6-8 (8/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Mae Sariang (Boripat Suksa) School    |
| 244 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW024        | 6-8 (9/22)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Tongsawat Vittayakarn                 |
| 245 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW024        | 6-8 (10/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Anuban Mae Sariang (Baan Pong) School |
| 246 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW024        | 6-8 (11/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | 193th Baan Jom Jang Mittraparb        |
| 247 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW024        | 6-8 (12/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Thairath Vittaya 33 (Baan Tung Prao)  |
| 248 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW024        | 6-8 (13/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baanrai Vittaya                       |
| 249 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW024        | 6-8 (14/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Mae Sariang Vocational School         |
| 250 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW024        | 6-8 (15/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Huay Sai School                  |
| 251 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW024        | 6-8 (16/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Nam Dip Community School         |
| 252 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW024        | 6-8 (17/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Sri Moon Muang School            |
| 253 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW024        | 6-8 (18/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Pai Vittayakarn School                |
| 254 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW024        | 6-8 (19/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Anuban Pai School                     |
| 255 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW024        | 6-8 (20/22)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                  |     | Baan Mae Hee Community School         |



### List of Equipment Provided by Japanese Side (WiMAX List ALL)

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment       | Manufacturer  | Specification   | Original Quantity | S/N        | Site Name (Eng)           |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------------|---------------|---|-------------------|------------|---------------------------|
| 256 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW024        | 6-8 (21/22)             | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)  | 1                 |            | Baan Wiang Nua School     |
| 257 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW024        | 6-8 (22/22)             | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)  | 1                 |            | NECTEC School Simulation  |
| 258 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW016-1      | 7-1 (1/6)               | Broadband ADSL Router   | TECOM         | Model:AR4031C   | 1                 |            | Suksa Song Kro School     |
| 259 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW016-2      | 7-1 (2/6)               | Broadband ADSL Router   | TECOM         | Model:AR4031C   | 1                 |            | Khun Gyuum Vitaya school  |
| 260 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW016-3      | 7-1 (3/6)               | Broadband ADSL Router   | TECOM         | Model:AR4031C   | 1                 |            | Maelanoi Daroonsik school |
| 261 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW016-4      | 7-1 (4/6)               | Broadband ADSL Router   | TECOM         | Model:AR4031C   | 1                 |            | Rajaprajanukroh 21 school |
| 262 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW016-5      | 7-1 (5/6)               | Broadband ADSL Router   | TECOM         | Model:AR4031C   | 1                 |            | Rajaprajanukroh 22 school |
| 263 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW016-6      | 7-1 (6/6)               | Broadband ADSL Router   | TECOM         | Model:AR4031C   | 1                 |            | Rajaprajanukroh 34 school |
| 264 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW014-29     | 7-2 (1/6)               | Switching Hub L2        | D-Link        | Model:DGS-3426P   | 1                 |            | Suksa Song Kro School     |
| 265 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW014-30     | 7-2 (2/6)               | Switching Hub L2        | D-Link        | Model:DGS-3426P   | 1                 |            | Khun Gyuum Vitaya school  |
| 266 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW014-31     | 7-2 (3/6)               | Switching Hub L2        | D-Link        | Model:DGS-3426P   | 1                 |            | Maelanoi Daroonsik school |
| 267 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW014-32     | 7-2 (4/6)               | Switching Hub L2        | D-Link        | Model:DGS-3426P   | 1                 |            | Rajaprajanukroh 21 school |
| 268 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW014-33     | 7-2 (5/6)               | Switching Hub L2        | D-Link        | Model:DGS-3426P   | 1                 |            | Rajaprajanukroh 22 school |
| 269 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW014-34     | 7-2 (6/6)               | Switching Hub L2        | D-Link        | Model:DGS-3426P   | 1                 |            | Rajaprajanukroh 34 school |
| 270 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW011-23     | 7-3 (1/6)               | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSL | Suksa Song Kro School     |
| 271 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW011-24     | 7-3 (2/6)               | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS3 | Khun Gyuum Vitaya school  |
| 272 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW011-25     | 7-3 (3/6)               | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRS | Maelanoi Daroonsik school |
| 273 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW011-26     | 7-3 (4/6)               | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRC | Rajaprajanukroh 21 school |
| 274 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW011-27     | 7-3 (5/6)               | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRP | Rajaprajanukroh 22 school |
| 275 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW011-28     | 7-3 (6/6)               | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS4 | Rajaprajanukroh 34 school |
| 276 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW012-25     | 7-4 (1/6)               | Computer Desktop        | DELL          | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | B39D32S    | Suksa Song Kro School     |
| 277 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW012-26     | 7-4 (2/6)               | Computer Desktop        | DELL          | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 7Y5M32S    | Khun Gyuum Vitaya school  |
| 278 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW012-27     | 7-4 (3/6)               | Computer Desktop        | DELL          | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | JRDK32S    | Maelanoi Daroonsik school |
| 279 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW012-28     | 7-4 (4/6)               | Computer Desktop        | DELL          | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 2RDK32S    | Rajaprajanukroh 21 school |
| 280 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW012-29     | 7-4 (5/6)               | Computer Desktop        | DELL          | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 3RDK32S    | Rajaprajanukroh 22 school |
| 281 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW012-30     | 7-4 (6/6)               | Computer Desktop        | DELL          | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 839D32S    | Rajaprajanukroh 34 school |
| 282 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW021-25     | 7-5 (1/6)               | VoIP Telephone          | WellTech      | Model:LP-201  | 1                 |            | Suksa Song Kro School     |
| 283 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW021-26     | 7-5 (2/6)               | VoIP Telephone          | WellTech      | Model:LP-201  | 1                 |            | Khun Gyuum Vitaya school  |
| 284 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW021-27     | 7-5 (3/6)               | VoIP Telephone          | WellTech      | Model:LP-201  | 1                 |            | Maelanoi Daroonsik school |
| 285 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW021-28     | 7-5 (4/6)               | VoIP Telephone          | WellTech      | Model:LP-201  | 1                 |            | Rajaprajanukroh 21 school |
| 286 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW021-29     | 7-5 (5/6)               | VoIP Telephone          | WellTech      | Model:LP-201  | 1                 |            | Rajaprajanukroh 22 school |
| 287 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW021-30     | 7-5 (6/6)               | VoIP Telephone          | WellTech      | Model:LP-201  | 1                 |            | Rajaprajanukroh 34 school |
| 288 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW007-24     | 7-6 (1/6)               | Wi-Fi Router            | D-Link        | Model:DIR-300   | 1                 |            | Suksa Song Kro School     |
| 289 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW007-25     | 7-6 (2/6)               | Wi-Fi Router            | D-Link        | Model:DIR-300   | 1                 |            | Khun Gyuum Vitaya school  |
| 290 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW007-26     | 7-6 (3/6)               | Wi-Fi Router            | D-Link        | Model:DIR-300   | 1                 |            | Maelanoi Daroonsik school |
| 291 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW007-27     | 7-6 (4/6)               | Wi-Fi Router            | D-Link        | Model:DIR-300   | 1                 |            | Rajaprajanukroh 21 school |

### List of Equipment Provided by Japanese Side (WiMAX List ALL)

The project of human resource development through utilizing the information technology for rural community revitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment       | Manufacturer  | Specification                             | Original Quant. Inv. | S/N          | Site Name (Eng)                           |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------------|---------------|---|----------------------|--------------|---|
| 292 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW007-28     | 7-6 (5/6)               | Wi-Fi Router            | D-Link        | Model:DIR-300                             | 1                    |              | Rajaprajanukroh 22 school                 |
| 293 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW007-29     | 7-6 (6/6)               | Wi-Fi Router            | D-Link        | Model:DIR-300                             | 1                    |              | Rajaprajanukroh 34 school                 |
| 294 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW019-52     | 7-7 (1/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Suksa Song Kro School                     |
| 295 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW019-53     | 7-7 (2/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Suksa Song Kro School                     |
| 296 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW019-54     | 7-7 (3/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Khun Gyuan Vitaya school                  |
| 297 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW019-55     | 7-7 (4/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Khun Gyuan Vitaya school                  |
| 298 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW019-56     | 7-7 (5/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Maelanoi Daroonsik school                 |
| 299 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW019-57     | 7-7 (6/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Maelanoi Daroonsik school                 |
| 300 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW019-58     | 7-7 (7/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Rajaprajanukroh 21 school                 |
| 301 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW019-59     | 7-7 (8/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Rajaprajanukroh 21 school                 |
| 302 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW019-60     | 7-7 (9/12)              | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Rajaprajanukroh 22 school                 |
| 303 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW019-61     | 7-7 (10/12)             | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Rajaprajanukroh 22 school                 |
| 304 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW019-62     | 7-7 (11/12)             | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Rajaprajanukroh 34 school                 |
| 305 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW019-63     | 7-7 (12/12)             | UPS                     | PCM           | Model:VGD-700                             | 1                    |              | Rajaprajanukroh 34 school                 |
| 306 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW024        | 7-8 (1/6)               | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)      | 1                    |              | Suksa Song Kro School                     |
| 307 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW024        | 7-8 (2/6)               | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)      | 1                    |              | Khun Gyuan Vitaya school                  |
| 308 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW024        | 7-8 (3/6)               | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)      | 1                    |              | Maelanoi Daroonsik school                 |
| 309 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW024        | 7-8 (4/6)               | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)      | 1                    |              | Rajaprajanukroh 21 school                 |
| 310 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW024        | 7-8 (5/6)               | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)      | 1                    |              | Rajaprajanukroh 22 school                 |
| 311 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW024        | 7-8 (6/6)               | LAN Cable set           | Kansai Densen | Model:NIL LAN cable set (100 rolled)      | 1                    |              | Rajaprajanukroh 34 school                 |
| 312 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW003-23     | 8-1 (1/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    | W503000411   | Mae Hong Son Provincial Governor's Office |
| 313 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW003-24     | 8-1 (2/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Provincial Public Health Office           |
| 314 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW003-25     | 8-1 (3/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Srisungwan Hospital                       |
| 315 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW003-26     | 8-1 (4/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Disaster Prevention and Mitigation Office |
| 316 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW003-27     | 8-1 (5/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | MHS Educational Service Area 1            |
| 317 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW003-28     | 8-1 (6/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | MHS Provincial Police Station             |
| 318 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW003-29     | 8-1 (7/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | MHS Drug Dependence Treatment Center      |
| 319 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW003-30     | 8-1 (8/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | MHS Municipality                          |
| 320 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW003-31     | 8-1 (9/15)              | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | MHS Educational Service Area 2            |
| 321 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW003-32     | 8-1 (10/15)             | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Mae Sariang District Office               |
| 322 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW003-33     | 8-1 (11/15)             | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Mae Sariang Hospital                      |
| 323 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW003-34     | 8-1 (12/15)             | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Pai District Office                       |
| 324 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW003-35     | 8-1 (13/15)             | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Pai Hospital                              |
| 325 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW003-36     | 8-1 (14/15)             | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | Pai Municipality                          |
| 326 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW003-37     | 8-1 (15/15)             | WiMAX CPE               | Alvarion      | Model:BreezeMax PRO-S                     | 1                    |              | NECTEC Gov. Simulation                    |
| 327 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW014-35     | 8-2 (1/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    | P1FF19900002 | Mae Hong Son Provincial Governor's Office |
| 328 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW014-36     | 8-2 (2/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Provincial Public Health Office           |
| 329 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW014-37     | 8-2 (3/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Srisungwan Hospital                       |
| 330 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW014-38     | 8-2 (4/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Disaster Prevention and Mitigation Office |
| 331 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW014-39     | 8-2 (5/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | MHS Educational Service Area 1            |
| 332 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW014-40     | 8-2 (6/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | MHS Provincial Police Station             |
| 333 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW014-41     | 8-2 (7/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | MHS Drug Dependence Treatment Center      |
| 334 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW014-42     | 8-2 (8/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | MHS Municipality                          |
| 335 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW014-43     | 8-2 (9/15)              | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | MHS Educational Service Area 2            |
| 336 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW014-44     | 8-2 (10/15)             | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Mae Sariang District Office               |
| 337 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW014-45     | 8-2 (11/15)             | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Mae Sariang Hospital                      |
| 338 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW014-46     | 8-2 (12/15)             | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Pai District Office                       |
| 339 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW014-47     | 8-2 (13/15)             | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Pai Hospital                              |
| 340 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW014-48     | 8-2 (14/15)             | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | Pai Municipality                          |
| 341 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW014-49     | 8-2 (15/15)             | Switching Hub L2        | D-Link        | Model:DGS-3426P                           | 1                    |              | NECTEC Gov. Simulation                    |
| 342 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW011-29     | 8-3 (1/15)              | Computer Desktop Server | HP            | Model:DX7510MT, Display Monitor, LinuxSIS | 1                    | SGH945PHSS   | Mae Hong Son Provincial Governor's Office |

**List of Equipment Provided by Japanese Side (WiMAX List ALL)**

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

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| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment       | Manufacturer | Specification   | Original Quantity | S/N        | Site Name (Eng)                           |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------------|--------------|---|-------------------|------------|---|
| 343 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW011-30     | 8-3 (2/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSP | Provincial Public Health Office           |
| 344 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW011-31     | 8-3 (3/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSH | Srisungwan Hospital                       |
| 345 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW011-32     | 8-3 (4/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSQ | Disaster Prevention and Mitigation Office |
| 346 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW011-33     | 8-3 (5/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS1 | MHS Educational Service Area 1            |
| 347 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW011-34     | 8-3 (6/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS9 | MHS Provincial Police Station             |
| 348 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW011-35     | 8-3 (7/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSD | MHS Drug Dependence Treatment Center      |
| 349 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW011-36     | 8-3 (8/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSW | MHS Municipality                          |
| 350 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW011-37     | 8-3 (9/15)              | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS3 | MHS Educational Service Area 2            |
| 351 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW011-38     | 8-3 (10/15)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS2 | Mae Sariang District Office               |
| 352 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW011-39     | 8-3 (11/15)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS7 | Mae Sariang Hospital                      |
| 353 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW011-40     | 8-3 (12/15)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSF | Pai District Office                       |
| 354 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW011-41     | 8-3 (13/15)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSK | Pai Hospital                              |
| 355 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW011-42     | 8-3 (14/15)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHSM | Pai Municipality                          |
| 356 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW011-43     | 8-3 (15/15)             | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHS6 | NECTEC Gov. Simulation                    |
| 357 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW012-31     | 8-4 (1/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 7RDK32S    | Mae Hong Son Provincial Governor's Office |
| 358 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW012-32     | 8-4 (2/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 4SDK32S    | Provincial Public Health Office           |
| 359 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW012-33     | 8-4 (3/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | DRDK32S    | Srisungwan Hospital                       |
| 360 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW012-34     | 8-4 (4/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 7J9D32S    | Disaster Prevention and Mitigation Office |
| 361 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW012-35     | 8-4 (5/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | HRDK32S    | MHS Educational Service Area 1            |
| 362 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW012-36     | 8-4 (6/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 4Y5M32S    | MHS Provincial Police Station             |
| 363 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW012-37     | 8-4 (7/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 1SDK32S    | MHS Drug Dependence Treatment Center      |
| 364 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW012-38     | 8-4 (8/15)              | Computer Desktop        | DELL         | Model:VOSTRO-2205, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | GRDK32S    | MHS Municipality                          |

### List of Equipment Provided by Japanese Side (WiMAX List ALL)

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment | Manufacturer | Specification   | Original Quantity | S/N           | Site Name (Eng)                           |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------|--------------|---|-------------------|---------------|---|
| 365 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW012-39     | 8-4 (9/15)              | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | FJ9D32S       | MHS Educational Service Area 2            |
| 366 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW012-40     | 8-4 (10/15)             | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 5Y5M32S       | Mae Sariang District Office               |
| 367 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW012-41     | 8-4 (11/15)             | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 6RDK32S       | Mae Sariang Hospital                      |
| 368 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW012-42     | 8-4 (12/15)             | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 9Y5M32S       | Pai District Office                       |
| 369 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW012-43     | 8-4 (13/15)             | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | GJ9D32S       | Pai Hospital                              |
| 370 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW012-44     | 8-4 (14/15)             | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 3SDK32S       | Pai Municipality                          |
| 371 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW012-45     | 8-4 (15/15)             | Computer Desktop  | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 9J9D32S       | NECTEC Gov. Simulation                    |
| 372 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW021-31     | 8-5 (1/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | J11NN5451     | Mae Hong Son Provincial Governor's Office |
| 373 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW021-32     | 8-5 (2/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | P1DY299005410 | Provincial Public Health Office           |
| 374 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW021-33     | 8-5 (3/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | 10043920911   | Srisungwan Hospital                       |
| 375 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW021-34     | 8-5 (4/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 | 10043920911   | Disaster Prevention and Mitigation Office |
| 376 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW021-35     | 8-5 (5/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | MHS Educational Service Area 1            |
| 377 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW021-36     | 8-5 (6/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | MHS Provincial Police Station             |
| 378 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW021-37     | 8-5 (7/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | MHS Drug Dependence Treatment Center      |
| 379 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW021-38     | 8-5 (8/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | MHS Municipality                          |
| 380 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW021-39     | 8-5 (9/15)              | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | MHS Educational Service Area 2            |
| 381 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW021-40     | 8-5 (10/15)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Mae Sariang District Office               |
| 382 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW021-41     | 8-5 (11/15)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Mae Sariang Hospital                      |
| 383 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW021-42     | 8-5 (12/15)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Pai District Office                       |
| 384 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW021-43     | 8-5 (13/15)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Pai Hospital                              |
| 385 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW021-44     | 8-5 (14/15)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | Pai Municipality                          |
| 386 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW021-45     | 8-5 (15/15)             | VoIP Telephone    | WellTech     | Model:LP-201  | 1                 |               | NECTEC Gov. Simulation                    |
| 387 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW007-30     | 8-6 (1/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 | P1DY299005410 | Mae Hong Son Provincial Governor's Office |
| 388 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW007-31     | 8-6 (2/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 | 10043920911   | Provincial Public Health Office           |
| 389 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW007-32     | 8-6 (3/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 | 10043920911   | Srisungwan Hospital                       |
| 390 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW007-33     | 8-6 (4/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | Disaster Prevention and Mitigation Office |
| 391 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW007-34     | 8-6 (5/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | MHS Educational Service Area 1            |
| 392 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW007-35     | 8-6 (6/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | MHS Provincial Police Station             |
| 393 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW007-36     | 8-6 (7/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | MHS Drug Dependence Treatment Center      |
| 394 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW007-37     | 8-6 (8/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | MHS Municipality                          |
| 395 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW007-38     | 8-6 (9/15)              | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | MHS Educational Service Area 2            |
| 396 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW007-39     | 8-6 (10/15)             | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | Mae Sariang District Office               |
| 397 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW007-40     | 8-6 (11/15)             | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | Mae Sariang Hospital                      |
| 398 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW007-41     | 8-6 (12/15)             | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | Pai District Office                       |
| 399 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW007-42     | 8-6 (13/15)             | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | Pai Hospital                              |
| 400 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW007-43     | 8-6 (14/15)             | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | Pai Municipality                          |
| 401 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW007-44     | 8-6 (15/15)             | Wi-Fi Router      | D-Link       | Model:DIR-300   | 1                 |               | NECTEC Gov. Simulation                    |
| 402 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW019-64     | 8-7 (1/30)              | UPS               | PCM          | Model:VGD-700   | 1                 | 10043920911   | Mae Hong Son Provincial Governor's Office |
| 403 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW019-65     | 8-7 (2/30)              | UPS               | PCM          | Model:VGD-700   | 1                 | 10043920911   | Mae Hong Son Provincial Governor's Office |
| 404 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW019-66     | 8-7 (3/30)              | UPS               | PCM          | Model:VGD-700   | 1                 |               | Provincial Public Health Office           |



## List of Equipment Provided by Japanese Side (WIMAX List ALL)

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Batch 1 and Batch 2

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|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------|---------------|--------------------------------------|-------------------|---------------|---|
| 405 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW019-67     | 8-7 (4/30)              | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Provincial Public Health Office           |
| 406 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW019-68     | 8-7 (5/30)              | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Srisungwan Hospital                       |
| 407 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW019-69     | 8-7 (6/30)              | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Srisungwan Hospital                       |
| 408 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW019-70     | 8-7 (7/30)              | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Disaster Prevention and Mitigation Office |
| 409 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW019-71     | 8-7 (8/30)              | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Disaster Prevention and Mitigation Office |
| 410 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW019-72     | 8-7 (9/30)              | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Educational Service Area 1            |
| 411 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW019-73     | 8-7 (10/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Educational Service Area 1            |
| 412 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW019-74     | 8-7 (11/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Provincial Police Station             |
| 413 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW019-75     | 8-7 (12/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Provincial Police Station             |
| 414 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW019-76     | 8-7 (13/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Drug Dependence Treatment Center      |
| 415 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW019-77     | 8-7 (14/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Drug Dependence Treatment Center      |
| 416 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW019-78     | 8-7 (15/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Municipality                          |
| 417 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW019-79     | 8-7 (16/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Municipality                          |
| 418 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW019-80     | 8-7 (17/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Educational Service Area 2            |
| 419 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW019-81     | 8-7 (18/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | MHS Educational Service Area 2            |
| 420 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW019-82     | 8-7 (19/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Mae Sariang District Office               |
| 421 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW019-83     | 8-7 (20/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Mae Sariang District Office               |
| 422 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW019-84     | 8-7 (21/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Mae Sariang Hospital                      |
| 423 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW019-85     | 8-7 (22/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Mae Sariang Hospital                      |
| 424 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW019-86     | 8-7 (23/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Pai District Office                       |
| 425 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW019-87     | 8-7 (24/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Pai District Office                       |
| 426 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW019-88     | 8-7 (25/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Pai Hospital                              |
| 427 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW019-89     | 8-7 (26/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Pai Hospital                              |
| 428 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW019-90     | 8-7 (27/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Pai Municipality                          |
| 429 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW019-91     | 8-7 (28/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | Pai Municipality                          |
| 430 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW019-92     | 8-7 (29/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | NECTEC Gov. Simulation                    |
| 431 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW019-93     | 8-7 (30/30)             | UPS               | PCM           | Model:VGD-700                        | 1                 |               | NECTEC Gov. Simulation                    |
| 432 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW024        | 8-8 (1/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Mae Hong Son Provincial Governor's Office |
| 433 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW024        | 8-8 (2/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Provincial Public Health Office           |
| 434 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW024        | 8-8 (3/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Srisungwan Hospital                       |
| 435 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW024        | 8-8 (4/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Disaster Prevention and Mitigation Office |
| 436 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW024        | 8-8 (5/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | MHS Educational Service Area 1            |
| 437 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW024        | 8-8 (6/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | MHS Provincial Police Station             |
| 438 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW024        | 8-8 (7/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | MHS Drug Dependence Treatment Center      |
| 439 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW024        | 8-8 (8/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | MHS Municipality                          |
| 440 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW024        | 8-8 (9/15)              | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | MHS Educational Service Area 2            |
| 441 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW024        | 8-8 (10/15)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Mae Sariang District Office               |
| 442 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW024        | 8-8 (11/15)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Mae Sariang Hospital                      |
| 443 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW024        | 8-8 (12/15)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Pai District Office                       |
| 444 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW024        | 8-8 (13/15)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Pai Hospital                              |
| 445 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW024        | 8-8 (14/15)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | Pai Municipality                          |
| 446 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW024        | 8-8 (15/15)             | LAN Cable set     | Kansai Densen | Model:NIL LAN cable set (100 rolled) | 1                 |               | NECTEC Gov. Simulation                    |
| 447 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW004-1      | 8-9 (1/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 | QUA9AUT000146 | Mae Hong Son Provincial Governor's Office |
| 448 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW004-2      | 8-9 (2/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 | QUA9AUT000104 | Mae Hong Son Provincial Governor's Office |
| 449 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW004-3      | 8-9 (3/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | Provincial Public Health Office           |
| 450 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW004-4      | 8-9 (4/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | Provincial Public Health Office           |
| 451 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW004-5      | 8-9 (5/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | Srisungwan Hospital                       |
| 452 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW004-6      | 8-9 (6/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | Srisungwan Hospital                       |
| 453 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW004-7      | 8-9 (7/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | Disaster Prevention and Mitigation Office |
| 454 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW004-8      | 8-9 (8/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | Disaster Prevention and Mitigation Office |
| 455 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW004-9      | 8-9 (9/30)              | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | MHS Educational Service Area 1            |
| 456 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW004-10     | 8-9 (10/30)             | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | MHS Educational Service Area 1            |
| 457 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW004-11     | 8-9 (11/30)             | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | MHS Provincial Police Station             |
| 458 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW004-12     | 8-9 (12/30)             | WIMAX Modem USB   | Alvarion      | Model:4M-CPE-USB-2.5                 | 1                 |               | MHS Provincial Police Station             |

**List of Equipment Provided by Japanese Side (WiMAX List ALL)**  
**The project of human resource development through utilizing the information technology for rural community vitalization**

Batch 1 and Batch 2  
 Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment       | Manufacturer | Specification   | Original Quantity | S/N        | Site Name (Eng)                          |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-------------------------|--------------|---|-------------------|------------|--|
| 459 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW004-13     | 8-9 (13/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | MHS Drug Dependence Treatment Center     |
| 460 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW004-14     | 8-9 (14/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | MHS Drug Dependence Treatment Center     |
| 461 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW004-15     | 8-9 (15/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | MHS Municipality                         |
| 462 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW004-16     | 8-9 (16/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | MHS Municipality                         |
| 463 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW004-17     | 8-9 (17/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | MHS Educational Service Area 2           |
| 464 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW004-18     | 8-9 (18/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | MHS Educational Service Area 2           |
| 465 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW004-19     | 8-9 (19/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Mae Sariang District Office              |
| 466 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW004-20     | 8-9 (20/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Mae Sariang District Office              |
| 467 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW004-21     | 8-9 (21/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Mae Sariang Hospital                     |
| 468 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW004-22     | 8-9 (22/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Mae Sariang Hospital                     |
| 469 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW004-23     | 8-9 (23/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Pai District Office                      |
| 470 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW004-24     | 8-9 (24/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Pai District Office                      |
| 471 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW004-25     | 8-9 (25/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Pai Hospital                             |
| 472 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW004-26     | 8-9 (26/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Pai Hospital                             |
| 473 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW004-27     | 8-9 (27/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Pai Municipality                         |
| 474 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW004-28     | 8-9 (28/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | Pai Municipality                         |
| 475 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW004-29     | 8-9 (29/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | NECTEC Gov. Simulation                   |
| 476 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW004-30     | 8-9 (30/30)             | WiMAX Modem USB         | Alvarion     | Model:4M-CPE-USB-2.5  | 1                 |            | NECTEC Gov. Simulation                   |
| 477 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW003-38     | 9-1 (1/4)               | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S   | 1                 |            | LICT Chankalay                           |
| 478 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW003-39     | 9-1 (2/4)               | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S   | 1                 |            | MHS Public library                       |
| 479 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW003-40     | 9-1 (3/4)               | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S   | 1                 |            | Mae Sariang Public Library               |
| 480 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW003-41     | 9-1 (4/4)               | WiMAX CPE               | Alvarion     | Model:BreezeMax PRO-S   | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |
| 481 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW014-50     | 9-2 (1/4)               | Switching Hub L2        | D-Link       | Model:DGS-3426P   | 1                 |            | LICT Chankalay                           |
| 482 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW014-51     | 9-2 (2/4)               | Switching Hub L2        | D-Link       | Model:DGS-3426P   | 1                 |            | MHS Public library                       |
| 483 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW014-52     | 9-2 (3/4)               | Switching Hub L2        | D-Link       | Model:DGS-3426P   | 1                 |            | Mae Sariang Public Library               |
| 484 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW014-53     | 9-2 (4/4)               | Switching Hub L2        | D-Link       | Model:DGS-3426P   | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |
| 485 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW011-44     | 9-3 (1/4)               | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRB | LICT Chankalay                           |
| 486 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW011-45     | 9-3 (2/4)               | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRW | MHS Public library                       |
| 487 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW011-46     | 9-3 (3/4)               | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRQ | Mae Sariang Public Library               |
| 488 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW011-47     | 9-3 (4/4)               | Computer Desktop Server | HP           | Model:DX7510MT, Display Monitor, LinuxSIS   | 1                 | SGH945PHRF | Mae Hee Village - Multi-Purpose Pavilion |
| 489 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW012-46     | 9-4 (1/4)               | Computer Desktop        | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | GX5M32S    | LICT Chankalay                           |
| 490 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW012-47     | 9-4 (2/4)               | Computer Desktop        | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 6J9D32S    | MHS Public library                       |
| 491 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW012-48     | 9-4 (3/4)               | Computer Desktop        | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | DJ9D32S    | Mae Sariang Public Library               |
| 492 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW012-49     | 9-4 (4/4)               | Computer Desktop        | DELL         | Model:VOSTRO-220S, WindowsXP, Kaspersky, WellTech Web camera, Display Monitor, Logitech Mic & Speaker | 1                 | 2SDK32S    | Mae Hee Village - Multi-Purpose Pavilion |
| 493 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW021-46     | 9-5 (1/4)               | VoIP Telephone          | WellTech     | Model:LP-201  | 1                 |            | LICT Chankalay                           |
| 494 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW021-47     | 9-5 (2/4)               | VoIP Telephone          | WellTech     | Model:LP-201  | 1                 |            | MHS Public library                       |
| 495 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW021-48     | 9-5 (3/4)               | VoIP Telephone          | WellTech     | Model:LP-201  | 1                 |            | Mae Sariang Public Library               |
| 496 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW021-49     | 9-5 (4/4)               | VoIP Telephone          | WellTech     | Model:LP-201  | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |
| 497 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW007-45     | 9-6 (1/4)               | Wi-Fi Router            | D-Link       | Model:DIR-300   | 1                 |            | LICT Chankalay                           |
| 498 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW007-46     | 9-6 (2/4)               | Wi-Fi Router            | D-Link       | Model:DIR-300   | 1                 |            | MHS Public library                       |
| 499 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW007-47     | 9-6 (3/4)               | Wi-Fi Router            | D-Link       | Model:DIR-300   | 1                 |            | Mae Sariang Public Library               |
| 500 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW007-48     | 9-6 (4/4)               | Wi-Fi Router            | D-Link       | Model:DIR-300   | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |

**List of Equipment Provided by Japanese Side (WiMAX List ALL)**

The project of human resource development through utilizing the information technology for rural community vitalization

Batch 1 and Batch 2

Updated: 27 February 2010

| No. | Date Registered | Installation Model Type Code | Site Code | Equipment ID | JICA Equipment List No. | Name of Equipment                  | Manufacturer  | Specification                              | Original Quantity | S/N        | Site Name (Eng)                          |
|-----|-----------------|------------------------------|-----------|--------------|-------------------------|------------------------------------|---------------|--|-------------------|------------|--|
| 501 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW019-94     | 9-7 (1/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | LICT Chankalay                           |
| 502 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW019-95     | 9-7 (2/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | LICT Chankalay                           |
| 503 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW019-96     | 9-7 (3/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | MHS Public library                       |
| 504 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW019-97     | 9-7 (4/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | MHS Public library                       |
| 505 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW019-98     | 9-7 (5/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | Mae Sariang Public Library               |
| 506 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW019-99     | 9-7 (6/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | Mae Sariang Public Library               |
| 507 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW019-100    | 9-7 (7/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |
| 508 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW019-101    | 9-7 (8/8)               | UPS                                | PCM           | Model:VGD-700                              | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |
| 509 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW024        | 9-8 (1/4)               | LAN Cable set                      | Kansai Densen | Model:NIL LAN cable set (100 rolled)       | 1                 |            | LICT Chankalay                           |
| 510 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW024        | 9-8 (2/4)               | LAN Cable set                      | Kansai Densen | Model:NIL LAN cable set (100 rolled)       | 1                 |            | MHS Public library                       |
| 511 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW024        | 9-8 (3/4)               | LAN Cable set                      | Kansai Densen | Model:NIL LAN cable set (100 rolled)       | 1                 |            | Mae Sariang Public Library               |
| 512 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW024        | 9-8 (4/4)               | LAN Cable set                      | Kansai Densen | Model:NIL LAN cable set (100 rolled)       | 1                 |            | Mae Hee Village - Multi-Purpose Pavilion |
| 513 | 12/30/2009      | TEST                         | D-CORE-01 | HW013-1      | 10-1 (1/5)              | Notebook                           | DELL/Alvarion | Model:Vostro 1520, WiMAX USB               | 1                 | 414N3L1    | NECTEC Core                              |
| 514 | 12/30/2009      | TEST                         | D-CORE-01 | HW013-2      | 10-1 (2/5)              | Notebook                           | DELL/Alvarion | Model:Vostro 1520, WiMAX USB               | 1                 | 223N3L1    | NECTEC Core                              |
| 515 | 12/30/2009      | TEST                         | D-CORE-01 | HW013-3      | 10-1 (3/5)              | Notebook                           | DELL/Alvarion | Model:Vostro 1520, WiMAX USB               | 1                 | 522N3L1    | NECTEC Core                              |
| 516 | 12/30/2009      | TEST                         | D-CORE-01 | HW013-4      | 10-1 (4/5)              | Notebook                           | DELL/Alvarion | Model:Vostro 1520, WiMAX USB               | 1                 | 822N3L1    | NECTEC Core                              |
| 517 | 12/30/2009      | TEST                         | D-CORE-01 | HW013-5      | 10-1 (5/5)              | Notebook                           | DELL/Alvarion | Model:Vostro 1520, WiMAX USB               | 1                 | 103N3L1    | NECTEC Core                              |
| 518 | 12/30/2009      | TEST                         | D-CORE-01 | HW025-1      | 10-2                    | Spectrum Analyzer                  | Anritsu       | Model:MT3222A                              | 1                 |            | NECTEC Core                              |
| 519 | 12/30/2009      | TEST                         | D-CORE-01 | HW026-1      | 10-3                    | RF Generator                       | Anritsu       | Model:MG3700A                              | 1                 |            | NECTEC Core                              |
| 520 | 12/30/2009      | TEST                         | D-CORE-01 | SW001-1      | 10-4                    | RF Planning Software               | Forsk         | Model:Atoll WiMAX                          | 1                 |            | NECTEC Core                              |
| 521 | 12/30/2009      | TEST                         | D-CORE-01 | SW002-1      | 10-5                    | Performance Testing Software       | Ixia          | IXChariot Performance Testing (50 license) | 1                 |            | NECTEC Core                              |
| 522 | 12/30/2009      | TEST                         | D-CORE-01 | HW027-1      | 10-6 (1/2)              | GPS                                | Garmin        | Model:Rino 530HCX                          | 1                 |            | NECTEC Core                              |
| 523 | 12/30/2009      | TEST                         | D-CORE-01 | HW027-2      | 10-6 (2/2)              | GPS                                | Garmin        | Model:Rino 530HCX                          | 1                 |            | NECTEC Core                              |
| 524 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW029-1      | 6-3 (1/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2J2 | Hong Son Suksa School                    |
| 525 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW029-2      | 6-3 (2/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q902 | Anuban MHS School                        |
| 526 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW029-3      | 6-3 (3/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q822 | Baan Sop Pong School                     |
| 527 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW029-4      | 6-3 (4/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q820 | Baan Mai School                          |
| 528 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW029-5      | 6-3 (5/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2N4 | Baan Joring Kum School                   |
| 529 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW029-6      | 6-3 (6/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2NF | Muang MHS Municipal School               |
| 530 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW029-7      | 6-3 (7/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q97V | Nawamin Vocational College               |
| 531 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW029-8      | 6-3 (8/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q3KK | Mae Sariang (Boripat Suksa) School       |
| 532 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW029-9      | 6-3 (9/22)              | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2NL | Tongsawat Vittayakarn                    |
| 533 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW029-10     | 6-3 (10/22)             | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q3HJ | Anuban Mae Sariang (Baan Pong) School    |
| 534 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW029-11     | 6-3 (11/22)             | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q97Z | 193th Baan Jom Jang Mitraparb            |
| 535 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW029-12     | 6-3 (12/22)             | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2YU | Thairath Vittaya 33 (Baan Tung Prao)     |
| 536 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW029-13     | 6-3 (13/22)             | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2SL | Baanrai Vittaya                          |
| 537 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW029-14     | 6-3 (14/22)             | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q2HZ | Mae Sariang Vocational School            |
| 538 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW029-15     | 6-3 (15/22)             | Monitor of Computer Desktop Server | HP            | Model:L1710 Display Monitor                | 1                 | CNC929Q3KP | Baan Huay Sai School                     |

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|-----|-----------------|------------------------------|-----------|--------------|-------------------------|------------------------------------|--------------|-----------------------------|-------------------|------------|---|
| 539 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW029-16     | 6-3 (16/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q97Q | Baan Nam Dip Community School             |
| 540 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW029-17     | 6-3 (17/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2H9 | Baan Sri Moon Muang School                |
| 541 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW029-18     | 6-3 (18/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3H8 | Pai Vittayakarn School                    |
| 542 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW029-19     | 6-3 (19/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q82B | Anuben Pai School                         |
| 543 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW029-20     | 6-3 (20/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2N7 | Baan Mae Hee Community School             |
| 544 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW029-21     | 6-3 (21/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2SH | Baan Wiang Nua School                     |
| 545 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW029-22     | 6-3 (22/22)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q976 | NECTEC School Simulation                  |
| 546 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW029-23     | 7-3 (1/6)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q98D | Suksa Song Kro School                     |
| 547 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW029-24     | 7-3 (2/6)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2J1 | Khun Gyuam Vitaya school                  |
| 548 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW029-25     | 7-3 (3/6)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q8XL | Maelanoi Daroonsik school                 |
| 549 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW029-26     | 7-3 (4/6)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3HL | Rajaprajanukroh 21 school                 |
| 550 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW029-27     | 7-3 (5/6)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q8YW | Rajaprajanukroh 22 school                 |
| 551 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW029-28     | 7-3 (6/6)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q97W | Rajaprajanukroh 34 school                 |
| 552 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW029-29     | 8-3 (1/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2NW | Mae Hong Son Provincial Governor's Office |
| 553 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW029-30     | 8-3 (2/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3QB | Provincial Public Health Office           |
| 554 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW029-31     | 8-3 (3/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2P0 | Srisungwan Hospital                       |
| 555 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW029-32     | 8-3 (4/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2PL | Disaster Prevention and Mitigation Office |
| 556 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW029-33     | 8-3 (5/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2HP | MHS Educational Service Area 1            |
| 557 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW029-34     | 8-3 (6/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3H7 | MHS Provincial Police Station             |
| 558 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW029-35     | 8-3 (7/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q82C | MHS Drug Dependence Treatment Center      |
| 559 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW029-36     | 8-3 (8/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q973 | MHS Municipality                          |
| 560 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW029-37     | 8-3 (9/15)              | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q974 | MHS Educational Service Area 2            |
| 561 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW029-38     | 8-3 (10/15)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q8YJ | Mae Sariang District Office               |
| 562 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW029-39     | 8-3 (11/15)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3HP | Mae Sariang Hospital                      |
| 563 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW029-40     | 8-3 (12/15)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q2J5 | Pai District Office                       |
| 564 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW029-41     | 8-3 (13/15)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q8YQ | Pai Hospital                              |
| 565 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW029-42     | 8-3 (14/15)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q82K | Pai Municipality                          |



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|-----|-----------------|------------------------------|-----------|--------------|-------------------------|------------------------------------|--------------|-----------------------------|-------------------|--------------------------|--|
| 566 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW029-43     | 8-3 (15/15)             | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q8YL               | NECTEC Gov. Simulation                   |
| 567 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW029-44     | 9-3 (1/4)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q986               | LICT Chankalay                           |
| 568 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW029-45     | 9-3 (2/4)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3HH               | MHS Public library                       |
| 569 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW029-46     | 9-3 (3/4)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3H6               | Mae Sariang Public Library               |
| 570 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW029-47     | 9-3 (4/4)               | Monitor of Computer Desktop Server | HP           | Model:L1710 Display Monitor | 1                 | CNC929Q3KR               | Mae Hee Village - Multi-Purpose Pavilion |
| 571 | 12/30/2009      | CORE Type 1                  | A-CORE-01 | HW030-1      | 4-17                    | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DGU | MHS Community College                    |
| 572 | 12/30/2009      | CORE Type 2                  | D-CORE-01 | HW030-2      | 5-14                    | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1C8C | NECTEC Core                              |
| 573 | 12/30/2009      | SCH Type 1                   | A-SCH-01  | HW030-3      | 6-4 (1/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1BUC | Horig Son Suksa School                   |
| 574 | 12/30/2009      | SCH Type 1                   | A-SCH-02  | HW030-4      | 6-4 (2/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DLU | Anuban MHS School                        |
| 575 | 12/30/2009      | SCH Type 1                   | A-SCH-03  | HW030-5      | 6-4 (3/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0CUU | Baan Sap Pong School                     |
| 576 | 12/30/2009      | SCH Type 1                   | A-SCH-04  | HW030-6      | 6-4 (4/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DQU | Baan Mai School                          |
| 577 | 12/30/2009      | SCH Type 1                   | A-SCH-05  | HW030-7      | 6-4 (5/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DCU | Baan Jong Kum School                     |
| 578 | 12/30/2009      | SCH Type 1                   | A-SCH-06  | HW030-8      | 6-4 (6/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1C7C | Muang MHS Municipal School               |
| 579 | 12/30/2009      | SCH Type 1                   | A-SCH-07  | HW030-9      | 6-4 (7/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1C3C | Nawamin Vocational College               |
| 580 | 12/30/2009      | SCH Type 1                   | B-SCH-01  | HW030-10     | 6-4 (8/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1BVC | Mae Sariang (Boripat Suksa) School       |
| 581 | 12/30/2009      | SCH Type 1                   | B-SCH-02  | HW030-11     | 6-4 (9/22)              | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1BWC | Tongsawat Vittayakarn                    |
| 582 | 12/30/2009      | SCH Type 1                   | B-SCH-03  | HW030-12     | 6-4 (10/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-0YNC | Anuban Mae Sariang (Baan Pong) School    |
| 583 | 12/30/2009      | SCH Type 1                   | B-SCH-04  | HW030-13     | 6-4 (11/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0EUV | 193th Baan Jom Jang Mittraparb           |
| 584 | 12/30/2009      | SCH Type 1                   | B-SCH-05  | HW030-14     | 6-4 (12/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1BXC | Thairath Vittaya 33 (Baan Tung Prao)     |
| 585 | 12/30/2009      | SCH Type 1                   | B-SCH-06  | HW030-15     | 6-4 (13/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1CMC | Baanrai Vittaya                          |
| 586 | 12/30/2009      | SCH Type 1                   | B-SCH-07  | HW030-16     | 6-4 (14/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1C0C | Mae Sariang Vocational School            |
| 587 | 12/30/2009      | SCH Type 1                   | B-SCH-08  | HW030-17     | 6-4 (15/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1CFC | Baan Huay Sai School                     |
| 588 | 12/30/2009      | SCH Type 1                   | B-SCH-09  | HW030-18     | 6-4 (16/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1BYC | Baan Nam Dip Community School            |
| 589 | 12/30/2009      | SCH Type 1                   | B-SCH-10  | HW030-19     | 6-4 (17/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DHU | Baan Sri Moon Muang School               |
| 590 | 12/30/2009      | SCH Type 1                   | C-SCH-01  | HW030-20     | 6-4 (18/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DJU | Pai Vittayakarn School                   |
| 591 | 12/30/2009      | SCH Type 1                   | C-SCH-02  | HW030-21     | 6-4 (19/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DBU | Anuban Pal School                        |
| 592 | 12/30/2009      | SCH Type 1                   | C-SCH-03  | HW030-22     | 6-4 (20/22)             | Monitor of Computer Desktop        | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DFU | Baan Mae Hee Community School            |

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|-----|-----------------|------------------------------|-----------|--------------|-------------------------|-----------------------------|--------------|-----------------------------|-------------------|--------------------------|---|
| 593 | 12/30/2009      | SCH Type 1                   | C-SCH-04  | HW030-23     | 6-4 (21/22)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0EXU | Baan Wiang Nua School                     |
| 594 | 12/30/2009      | SCH Type 1                   | D-SCH-01  | HW030-24     | 6-4 (22/22)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0D4U | NECTEC School Simulation                  |
| 595 | 12/30/2009      | SCH Type 2                   | A-SCH-08  | HW030-25     | 7-4 (1/6)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DPU | Suksa Song Kro School                     |
| 596 | 12/30/2009      | SCH Type 2                   | A-SCH-09  | HW030-26     | 7-4 (2/6)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DNU | Khun Gyuam Vitaya school                  |
| 597 | 12/30/2009      | SCH Type 2                   | B-SCH-11  | HW030-27     | 7-4 (3/6)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1CKC | Maelanoi Daroonsik school                 |
| 598 | 12/30/2009      | SCH Type 2                   | B-SCH-12  | HW030-28     | 7-4 (4/6)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-0MUC | Rajapranukroh 21 school                   |
| 599 | 12/30/2009      | SCH Type 2                   | C-SCH-05  | HW030-29     | 7-4 (5/6)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1CTC | Rajapranukroh 22 school                   |
| 600 | 12/30/2009      | SCH Type 2                   | C-SCH-06  | HW030-30     | 7-4 (6/6)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-0MTC | Rajapranukroh 34 school                   |
| 601 | 12/30/2009      | GOV Type 1                   | A-GOV-01  | HW030-31     | 8-4 (1/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DNXC | Mae Hong Son Provincial Governor's Office |
| 602 | 12/30/2009      | GOV Type 1                   | A-GOV-02  | HW030-32     | 8-4 (2/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DSSC | Provincial Public Health Office           |
| 603 | 12/30/2009      | GOV Type 1                   | A-GOV-03  | HW030-33     | 8-4 (3/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-0MXC | Srisungwan Hospital                       |
| 604 | 12/30/2009      | GOV Type 1                   | A-GOV-04  | HW030-34     | 8-4 (4/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DMU | Disaster Prevention and Mitigation Office |
| 605 | 12/30/2009      | GOV Type 1                   | A-GOV-05  | HW030-35     | 8-4 (5/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0CMU | MHS Educational Service Area 1            |
| 606 | 12/30/2009      | GOV Type 1                   | A-GOV-06  | HW030-36     | 8-4 (6/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0ETU | MHS Provincial Police Station             |
| 607 | 12/30/2009      | GOV Type 1                   | A-GOV-07  | HW030-37     | 8-4 (7/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1C5C | MHS Drug Dependence Treatment Center      |
| 608 | 12/30/2009      | GOV Type 1                   | A-GOV-08  | HW030-38     | 8-4 (8/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DPOC | MHS Municipality                          |
| 609 | 12/30/2009      | GOV Type 1                   | B-GOV-01  | HW030-39     | 8-4 (9/15)              | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1C6C | MHS Educational Service Area 2            |
| 610 | 12/30/2009      | GOV Type 1                   | B-GOV-02  | HW030-40     | 8-4 (10/15)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0CTU | Mae Sariang District Office               |
| 611 | 12/30/2009      | GOV Type 1                   | B-GOV-03  | HW030-41     | 8-4 (11/15)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DDU | Mae Sariang Hospital                      |
| 612 | 12/30/2009      | GOV Type 1                   | C-GOV-01  | HW030-42     | 8-4 (12/15)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DP2C | Pai District Office                       |
| 613 | 12/30/2009      | GOV Type 1                   | C-GOV-02  | HW030-43     | 8-4 (13/15)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DNYC | Pai Hospital                              |
| 614 | 12/30/2009      | GOV Type 1                   | C-GOV-03  | HW030-44     | 8-4 (14/15)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DNWC | Pai Municipality                          |
| 615 | 12/30/2009      | GOV Type 1                   | D-GOV-01  | HW030-45     | 8-4 (15/15)             | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-DRUC | NECTEC Gov. Simulation                    |
| 616 | 12/30/2009      | COM Type 1                   | A-COM-01  | HW030-46     | 9-4 (1/4)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0DEU | LICT Chankalay                            |
| 617 | 12/30/2009      | COM Type 1                   | A-COM-02  | HW030-47     | 9-4 (2/4)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9B5-1CHC | MHS Public library                        |
| 618 | 12/30/2009      | COM Type 1                   | B-COM-01  | HW030-48     | 9-4 (3/4)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-9AE-0CVU | Mae Sariang Public Library                |
| 619 | 12/30/2009      | COM Type 1                   | C-COM-01  | HW030-49     | 9-4 (4/4)               | Monitor of Computer Desktop | DELL         | Model:C013P Display Monitor | 1                 | CN-0M875N-64180-99P-C3RC | Mae Hee Village - Multi-Purpose Pavilion  |

## Budget Secured by Japanese Side

(Unit: 1000 Yen)

| Breakdown                          | 2009    | 2010    | 2011  | 2012   | Total   |
|------------------------------------|---------|---------|-------|--------|---------|
| Japanese Experts                   | 106,280 | 147,306 | 0     | 28,176 | 281,762 |
| Equipment                          | 237,399 | 47,691  | 1,666 |        | 286,756 |
| Training in Japan                  | 0       | 2,177   | 0     |        | 2,177   |
| Japanese Project Consultation Team | 0       | 0       | 3,359 |        | 3,359   |
| Total                              | 343,679 | 197,174 | 5,025 | 0      | 574,054 |

(Note: Japanese Fiscal Year)

Dr. A.

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## Budget secured by Thai Side (NECTEC)

(Unit: Baht)

|  | 2009             | 2010             | 2011             | 2012             | Total             |
|--|------------------|------------------|------------------|------------------|-------------------|
| Infrastructure cost  | --               | 700,000          | 1,300,000        | 500,000          |                   |
| <ul style="list-style-type: none"> <li>• Backbone</li> <li>• Tower Rental</li> <li>• Electricity</li> <li>• Electricity line construction</li> </ul> |                  |                  |                  |                  |                   |
| Operation Cost   | 460,000          | 500,000          | 400,000          | 300,000          |                   |
| <ul style="list-style-type: none"> <li>• Travel expense</li> <li>• Training</li> <li>• System Operation</li> <li>• Others</li> </ul>                 |                  |                  |                  |                  |                   |
| Equipment cost   | --               | 300,000          | 100,000          | --               |                   |
| Human Resource   | 1,430,000        | 3,556,000        | 3,574,000        | 1,542,500        |                   |
| <b>Total</b>   | <b>1,890,000</b> | <b>5,056,000</b> | <b>5,274,000</b> | <b>2,342,500</b> | <b>14,562,500</b> |

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## List of C/P Allocation

Project of Human Resource Development through Utilizing the Information Technology  
for Rural Community Vitalization

| Name                          | Position   | Period   |
|-------------------------------|--|--|
| Dr. Pansak Siriuchatapong     | Project Director                                 | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Dr. Kwan Sitathani            | Project Advisor/Steering Committee               | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Dr. Siwaruk Siwamogsatham     | Project Manager                                  | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Ms. Kullapraya Navanugraha    | Project Management Office                        | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Dr. Kitti Wongthavarawat      | Project Co-manager / WiFi, WiMAX research member | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Mr. Kitiwat Limmongkol        | WiFi, WiMAX research member                      | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Mr. Jesada. Pholcharoen       | WiFi, WiMAX research member                      | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Mr. Jedsada Thongkanluang     | WiFi, WiMAX research member                      | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Ms. Piranya Sathienpattanakul | WiFi, WiMAX research member                      | September 2011 –<br>10 <sup>th</sup> March 2012              |
| Mr. Worawath Pattanachotgul   | WiFi, WiMAX research member                      | September 2011 –<br>10 <sup>th</sup> March 2012              |
| Mr. Kridakorn Hiranpruek      | WiFi, WiMAX research member                      | 26 <sup>th</sup> April 2009 –<br>September 2009              |
| Mr. Songrit Srilasak          | WiFi, WiMAX research member                      | 26 <sup>th</sup> April 2009 –<br>May 2010                    |
| Mr. Komate Jarasjindarat      | WiFi, WiMAX research member                      | November 2010 –<br>July 2011                                 |
| Mr. Matanee Kitjaroen         | Technical Staff                                  | October 2009 –<br>September 2010                             |
| Dr. Supakorn Siddhichai       | Application research member                      | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |
| Mr. Pornchai Tummarattanaont  | Application research member                      | 26 <sup>th</sup> April 2009 –<br>10 <sup>th</sup> March 2012 |

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|                          |                                     |   |
|--------------------------|-------------------------------------|---|
| Dr. Kamol Kaemarungs     | Human Resource Development member   | 26 <sup>th</sup> April 2009 – September 2009              |
| Ms. Methinee Sirikrai    | Human Resource Development member   | September 2009-10 <sup>th</sup> March 2012                |
| Ms. Thansaya Promniyom   | Human Resource Development member   | September 2009-10 <sup>th</sup> March 2012                |
| Dr. Kasitorn Pooparadai  | Social impact survey member         | 26 <sup>th</sup> April 2009 – 10 <sup>th</sup> March 2012 |
| Dr. Chalee Vorakulpipat  | Social impact survey member         | 26 <sup>th</sup> April 2009 – 10 <sup>th</sup> March 2012 |
| Ms. Pimchatra Jamchudjai | Social impact survey member         | 26 <sup>th</sup> April 2009 – Sep 2009                    |
| Ms. Apinya Kamolsook     | Social impact survey member         | 26 <sup>th</sup> April 2009 – Sep 2009                    |
| Ms. Kasama Kongsmak      | Social impact survey member         | October 2010–10 <sup>th</sup> March 2012                  |
| Ms. Jeeranund Doangkum   | Social impact survey member         | October 2010–10 <sup>th</sup> March 2012                  |
| Mr. Suchon Chati         | MHS Technical Local Support         | May 2010 – 10 <sup>th</sup> March 2012                    |
| Mr. Bundit Niludomsak    | MHS Local Coordinator               | 26 <sup>th</sup> April 2009 – 10 <sup>th</sup> March 2012 |
| See MHS C/P list         | School teachers as trainer from MHS | 26 <sup>th</sup> April 2009 – 10 <sup>th</sup> March 2012 |

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**List of Equipment Provided by NECTEC**
**The project of human resource development through utilizing the information technology for rural community vitalization**
**Updated:**
**3 March 2012**

| No. | Name of Item            | Site Code      | Place | Brand/Vendor | Procurement |
|-----|-------------------------|----------------|-------|--------------|-------------|
| 1   | Routerboard             | Doi Chang BS   | MSR   | Mikrotik     | NECTEC      |
| 2   | Routerboard             | Doi Kong Mu BS | MHS   | Mikrotik     | NECTEC      |
| 3   | Routerboard             | Mae Yen BS     | PAI   | Mikrotik     | NECTEC      |
| 4   | Routerboard             | A-CORE-01      | MHS   | Mikrotik     | NECTEC      |
| 5   | Wireless Point-to-Point | A-CORE-01      | MHS   | Ubiquiti     | NECTEC      |
| 6   | Wireless Point-to-Point | B-Gov-01       | MSR   | Ubiquiti     | NECTEC      |
| 7   | Battery Pack            | Doi Chang BS   | MSR   | N/A          | NECTEC      |
| 8   | Battery Pack            | Doi Kong Mu BS | MHS   | N/A          | NECTEC      |
| 9   | Battery Pack            | Mae Yen BS     | PAI   | N/A          | NECTEC      |
| 10  | Battery Pack            | A-CORE-01      | MHS   | N/A          | NECTEC      |
| 11  | Fiber Media Convertor   | Doi Chang BS   | MSR   | N/A          | NECTEC      |
| 12  | Fiber Media Convertor   | Doi Kong Mu BS | MHS   | N/A          | NECTEC      |
| 13  | Fiber Media Convertor   | Mae Yen BS     | PAI   | N/A          | NECTEC      |
| 14  | Acton AP for IXChariot  | Doi Chang BS   | MSR   | Acton        | NECTEC      |
| 15  | Acton AP for IXChariot  | Doi Kong Mu BS | MHS   | Acton        | NECTEC      |
| 16  | Acton AP for IXChariot  | Mae Yen BS     | PAI   | Acton        | NECTEC      |

## Details of Project Achivement

Annex 10

Project of Human Resource Development through Utilizing  
the Information Technology for Rural Community Vitalization

### 1. Achievement of Outputs (from 26<sup>th</sup> Apr 2009 – 20<sup>th</sup> of Feb 2012)

| Outputs  | Indicators  | Progress of Achievement   | Note            |
|--|---|---|-----------------|
| 1. Rural wireless communication model has been developed by NECTEC | 1.1. Implementation of Trend Surveys of Wireless Communication technologies at Model site.  | <ul style="list-style-type: none"> <li>Baseline, Technology trend and Demand survey was conducted and made a report in May,2009</li> </ul>  |                 |
|  | 1.2. Knowledge and Skills acquired by the Trainees who participated to the Technical Training.<br><br>SEM(Seminar):<br>Training from expert to NECTEC C/P<br><br>WS(Workshop):<br>Training from NECTEC C/P to MHS sites<br><br>PT(Practical training):<br>Training from NECTEC C/P to MHS sites that NECTEC C/P proposed in wireless technology area<br><br>miniWS(mini workshop):<br>Training from NECTEC C/P to MHS sites that NECTEC C/P proposed in application area<br>Training from MHS instructor to MHS sites and users that NECTEC C/P proposed in application area<br><br>RC(Remote class): | <ul style="list-style-type: none"> <li>Experts have provided 12 seminar to NECTEC C/P</li> </ul> <u>Wireless Technology area</u><br>SEM1_1 How to explain "Basic IP network and wireless technology"<br>SEM1_2 WiMAX system design<br>SEM1_3 System operation and maintenance planning and explanation<br>SEM1_4 IP network<br>SEM1_5 WiMAX system design2<br>SEM1_6 IP network2<br><br><u>Contents Development area</u><br>SEM2_1 Learning management system (Seminar for WS2_1)<br>SEM2_2 Contents development using WiMAX<br>SEM2_3 Contents development using Video conference system<br>SEM2_4 Contents development using Mobile phone and new technology<br>SEM3_1 Instructional Design1 for improvement or developed contents<br>SEM3_2 Instructional Design2 for remote class planning<br><br><ul style="list-style-type: none"> <li>NECTEC C/P have provided 21 workshop to MHS sites and support 5 workshop by MHS local instructors</li> </ul> <u>Wireless Technology area</u><br>WS1_1(PT3) IP network and basic WiMAX (MSR)<br>WS1_2(PT4) IP network and basic WiMAX (PAI)<br>WS1_3(PT6) IP network and basic WiMAX (MHS)<br>WS1_4(PT8) IP network and basic WiMAX2 (PAI)<br>WS1_5(PT9) IP network and basic WiMAX2 (MSR)<br>WS1_6(PT10) IP network and basic WiMAX2 (MHS) | Training Record |

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## Details of Project Achivement

Annex 10

|  |   |   |  |
|--|---|---|--|
|  | <p>Training from NECTEC C/P to MHS sites using AcuLearn system<br/>                 Training from MHS instructor to MHS sites and users using AcuLearn system</p> | <p>PT1 Basic IP network and wireless technology<br/>                 PT2 System operation and maintenance planning and explanation<br/>                 PT5 Introduction of AcuConference system<br/>                 PT7 Introduction of web-based help desk system</p> <p><u>Contents Development area</u><br/>                 WS2_1(CDW1) Learning management system(Learn Square)<br/>                 WS2_2(CDW2) How to create e-Learning contents<br/>                 WS2_3(CDW3) Contents development using Video conference system<br/>                 WS2_3a(CDW3a) Follow-up for WS2_3<br/>                 WS2_4(CDW4) Contents development using Mobile phone and new technology<br/>                 WS2_5(CDW5) Review of the content development techniques for classroom teaching<br/>                 miniWS1 Follow-up for Learn Square<br/>                 miniWS2 Introduction of AcuLearn system<br/>                 miniWS3 Workshop by local trainer: LearnSquare, eDLTV(PAI)<br/>                 miniWS4 Instructor's training for improvement of developed contents(MSR)<br/>                 miniWS5 Workshop by local trainer: Mobile contents(PAI, MSR)<br/>                 miniWS6 Workshop by local trainer: Remote class planning<br/>                 miniWS7 eLearning content development for pilot school will be held in March 2012.</p> <p><u>Remote class area</u><br/>                 RC1 Workshop by local trainer: Microsoft word<br/>                 RC2 Google searching<br/>                 RC3 Workshop by local trainer: Forest fires<br/>                 RC4 Workshop by local trainer: Photoshop<br/>                 RC5 Workshop by teacher of university from Bangkok: Composer<br/>                 RC6 Workshop by teacher of university from Phuket: Undersea</p> |  |
|  | <p>1.3. The design of Rural Wireless Community System Model and its parameter identified.</p>   | <p>● Experts have provided 13 OJT to NECTEC C/P<br/>                 OJT1 Site survey and tower construction<br/>                 OJT2 IP network design<br/>                 OJT3 PAT FAT<br/>                 OJT4 Test-run plan and implementation</p>   |  |

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## Details of Project Achievement

Annex 10

|   |  |  |                                    |
|---|--|--|------------------------------------|
|   | <p>OJT(On the job training):<br/>Training from experts to NECTEC C/P on the job</p> <p>VN(Vender training):<br/>Training from AcuLearn and WiMAX vender to experts, NECTEC C/P and MHS sites</p> | <p>OJT5 System installation/Unified test<br/>OJT6 Data collection<br/>OJT7 System profile<br/>OJT8 WiMAX system design<br/>OJT9 RF generator<br/>OJT10 Performance test<br/>OJT11 WiMAX simulator<br/>OJT12 Spectrum analyzer<br/>OJT13 Portable GPS</p> <ul style="list-style-type: none"> <li>● Venders have provided 3 seminar to experts, NECTEC C/P and IT administrators and local instructors of MHS sites</li> </ul> <p>VN1 AcuLearn system<br/>VN2 Core system and client site in MHS<br/>VN3 WiMAX system</p>  |                                    |
|   | <p>1.4. The Discussions held about feasibility and its usefulness of applications among related organizations.</p>   | <ul style="list-style-type: none"> <li>● Project have held 3 JCC meeting<br/>1<sup>st</sup> JCC 17<sup>th</sup> June 2009 at NECTEC<br/>2<sup>nd</sup> JCC 25<sup>th</sup> February 2010 at MHS government office<br/>3<sup>rd</sup> JCC 16<sup>th</sup> July 2010 at NECTEC<br/>4<sup>th</sup> JCC 6<sup>th</sup> March 2012 at Rama Garden will be held.</li> <li>● Project has held 2 PPO meeting with MHS governments and sites<br/>1<sup>st</sup> PPO 15<sup>th</sup> December 2010 at MHS government office<br/>2<sup>nd</sup> PPO 24<sup>th</sup> May 2011 at MHS government office</li> <li>● Project has held several meeting with related organizations.<br/>Meeting with NTC(NBTC) 13<sup>th</sup> July 2010, 18<sup>th</sup> March 2011, 21<sup>st</sup> March 2011, 24<sup>th</sup> August 2011, 9<sup>th</sup> February 2012 at NTC(NBTC)<br/>Meeting with MICT 20<sup>th</sup> November 2009, 19<sup>th</sup> April 2011<br/>Meeting with MHS governor 14<sup>th</sup> December 2011, 25<sup>th</sup> January 2012</li> </ul> | <p>Meeting minutes</p>             |
| <p>2. Curriculum aimed to vitalize the rural areas will be developed by NECTEC in collaboration with local organizations in the</p> | <p>2-1. Quality and number of Curriculum developed by NECTEC in collaboration with local organizations</p>   | <ul style="list-style-type: none"> <li>● The number of Curriculum in LMS server is 118.</li> <li>● On average, there are 16 good Curriculum every month in LMS server since September 2009</li> <li>● Samples of good curriculum are as follows(Project decide that over 5 access curriculums are good curriculum monthly )<br/>1)หลักการแก้ปัญหาและทางเลือก (IT Valley) (Principles of problem</li> </ul>   | <p>Development and access list</p> |

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## Details of Project Achivement

Annex 10

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|----------------------|--|--|---|
| Kingdom of Thailand. |  | <p>solving and programming (IT Valley.)</p> <p>2) การใช้โปรแกรม Microsoft Word เบื้องต้น (Introduction to Microsoft Word)</p> <p>3) เทคโนโลยีสารสนเทศและการสื่อสาร 1 (Information and Communication Technology 1.)</p> <p>4) การโปรแกรมภาษาซีชาร์ป(C#) (C# Programming)</p> <p>5) ภาษามือภาษาสมอง (the brain and hand language.)</p>   |   |
|                      | 2-2. Number of users who use e-Learning applications                     | <ul style="list-style-type: none"> <li>● Number of access users to the main page of the LMS increased from 0 to 2377.</li> <li>● Number of page views of the LMS increased from 0 to 47483.</li> <li>● According to impact survey No.6 (page25), Schools expanded their curriculum, including IT curriculum. Teachers and students became more interested in e-Learning and studying IT subjects</li> <li>● The number of users who attended 6 remote classes using AcuLearn increased from 0 to 240 since November 2009 (Training history)</li> <li>● The number of users who used AcuConference system for video conferencing increased from 0 to 521 since November 2009 (AcuLearn Log data, Aculearn use history)</li> </ul>                                       | <p>LMS log data</p> <p>Training record</p> <p>AcuLearn log data</p> |
|                      | 2-3. Quality and number of Contents developed by the users of Curriculum | <ul style="list-style-type: none"> <li>● The number of contents in LMS server increased from 0 to 781.</li> <li>● On average there are 19 good Contents every month in LMS server.</li> <li>● Samples of good contents are as follows(Project decide that over 5 access contents are good contents )                             <ol style="list-style-type: none"> <li>1) การโปรแกรมภาษาซีชาร์ป( C# programming)</li> <li>2) การจัดรูปแบบตัวอักษรโปรแกรมMicrosoft Word (Change font in Microsoft Word)</li> <li>3) แบบประเมินหลังเรียน (Microsoft Word post test)</li> <li>4) การสร้างตัวละครเคลื่อนไหวอย่างง่าย (Introduction to Computer animation)</li> <li>5) บทเรียนภาษาภาษาว่านถ่อย (กะเหรี่ยง) ออนไลน์ (Karen language online learning)</li> </ol> </li> </ul> | <p>Development and access list</p>                                  |

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## Details of Project Achievement

Annex 10

### 2. Progress of Activities (from 26<sup>th</sup> Apr 2009 – 20<sup>th</sup> of Feb 2012)

| Activities   | Progress of Activities  |
|--|---|
| <p><b>1. Activities for Output1.</b></p> <p>1-1. <u>To carry out the survey of wireless communication technologies trend at model site.</u></p> <p>1-2. <u>To design and implement the wireless communication system at the model site.</u></p> <p>1-3. <u>To conduct/support WiMAX equipment procurement and to the On the Job Training (OJT)</u></p> <p>1-3-1. To conduct tower and cabinet procurement and the On the Job Training (OJT) for installation. (e.g. tower construction, construction supervision and acceptance).</p> <p>1-3-2. To support WiMAX equipment procurement</p> <p>1-4. <u>To conduct training in Japan.</u></p> <p>1-5. <u>To conduct training to the targeted local users using sample equipment.</u></p> <p>1-6. <u>To test and measure the performance</u></p> <p>1-6-1 Data collection at model sites</p> <p>1-6-2 Performance test at model sites</p> | <p>1-1. The baseline, technology trend and demand survey was held during 18-23 May 2009. A report of these surveys is attached to "Progress Report 2".</p> <p>1-2. Design of wireless communication system at the model site was drawn by JICA experts and C/Ps during May – September 2009 and implemented.</p> <p>1-3-1. Procurement of 2 towers and 3 cabinets and OJT of tower construction, construction supervision and acceptance test were conducted by experts during September – November 2009. Handover of the procurement were completed on 6 November 2009.(OJT1,2,3)</p> <p>1-3-2. Procurement of WiMAX equipment by JICA were supported and OJT of provisional acceptance test (equipment check), installation, test run, unified test, final acceptance test and handover were conducted 29<sup>th</sup> July 2010.(OJT4,5)</p> <p>1-4. The training in Japan was conducted during 6-15 June 2010.</p> <p>1-5. The training named practical training were held on 22 and 23 August 2009.(PT1)</p> <p>1-6-1. Trial test at model sites, design, verification and analysis were conducted during 1<sup>st</sup> caravan to 8<sup>th</sup> caravan. Results of analysis (OJT1-13). Test results were summarized as the data collection result. The result of verification and analysis were reflected to Rural Wireless Communication System (RWCS) model document.</p> <p>1-6-2. The performance test was conducted during 3<sup>rd</sup> and 5<sup>th</sup> caravan. Test results were summarized as the performance test result and reflected to Rural Wireless Communication System (RWCS) model document.</p> |

## Details of Project Achivement

Annex 10

|   |   |
|---|---|
| <p>1-7. <u>To examine and analyze the results of testing and propose an evaluation study report</u></p> <p>1-7-1. To examine and analyze the results of testing of wireless communication system</p> <p>1-7-2. To conduct impact survey about socio-economic status</p> <p>1-7-3. To propose an evaluation study report including impact survey</p> <p>1-8. <u>To hold seminar to share the information about wireless communication system trial test with participants from relevant organizations.</u></p> <p>1-9. <u>To identify and recommend the technical regulations to relevant authorities to be applied for rural wireless communication system.</u></p> <p>1-10. <u>To draft 'The Study Report of Rural Wireless Communication System Development'.</u></p> <p>1-11. <u>To propose the developed rural wireless communication system model to NTC.</u></p> <p><b>2. Activities for Output2.</b></p> <p>2-1. <u>To discuss with local school teachers and local authorities of Mae Hong Son Province to develop the curriculums.</u></p> <p>2-2. <u>To collaborate with targeted local users for creating the sample contents for e-Learning.</u></p> <p>2-3. <u>To conduct training for local instructors in Mae Hong Son Province.</u></p> | <p>1-7-1. Trial test, verification and analysis were conducted during 1<sup>st</sup> caravan to 8<sup>th</sup> caravan. (OJT1-13) The examination and analysis of the results have been conducted since July 2011 to make RWCS model document.</p> <p>1-7-2. Impact survey at sites has been conducted in August and September 2011. Documentation will be completed in the end of October 2011.</p> <p>1-7-3. The evaluation study report will be made in the beginning of November 2011.</p> <p>1-8. The seminar will be held as a final seminar on 6 March 2012.</p> <p>1-9. Activities will be held during final seminar on 6 March 2012.</p> <p>1-10. The draft was summarized from November 2011 and completed in February 2012.</p> <p>1-11. The model will be proposed in final seminar on 6 March 2012.</p> <p>2-1. The discussion was held during base-line survey trip in May and 1<sup>st</sup> JCC meeting. The result of the discussion during base- line survey trip was included in base-line survey report.</p> <p>2-2. 33 contents were developed during workshop.(WS2_1-5)</p> <p>2-3. The following 12 trainings were held. (Training history show details)</p> |
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## Details of Project Achivement

Annex 10

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|--|--|
| <p style="text-align: right; margin-right: 10px;">D.M.</p> <p style="margin-top: 200px;">2-4. <u>To facilitate training for local users by local instructors</u></p> | <p>WS2_1(CDW1) Learning management system(Learn Square)<br/>Date: 28-30 October 2009 Place: Mae hong son</p> <p>WS2_2(CDW2) How to create e-Learning contents<br/>Date: 18-20 March 2010 Place: Mae hong son</p> <p>WS2_3(CDW3) Contents development using Video conference system<br/>Date: 20-21 October 2010 Place: Mae hong son</p> <p>WS2_3a(CDW3a) Follow-up for WS2_3<br/>Date: 8 December 2010 Place: Mae hong son</p> <p>WS2_4(CDW4) Contents development using Mobile phone and new technology<br/>Date: 21-23 March 2011 Place: Mae hong son</p> <p>WS2_5(CDW5) Review of the content development techniques for classroom teaching<br/>Date: 5-6 February 2012 Place: Mae hong son</p> <p>miniWS1 Follow-up for Learn Square<br/>Date: 29-30 May 2010 Place: Mae hong son/ Mae sariang/Pai</p> <p>miniWS2 Introduction of AcuLearn system<br/>Date: 30-31 August 2010 Place: Mae hong son/ Mae sariang/Pai</p> <p>miniWS4 Instructor's training for improvement of developed contents<br/>Date: 11-12 February 2011 Place: Mae sariang</p> <p>miniWS7 eLearning content development for pilot school<br/>Date: 18-19 February 2012 Place: Mae sariang</p> <p>RC2 Google searching<br/>Date: 21 June 2011 Place: NECTEC</p> <p>RC5 Workshop by teacher of university from Bangkok: Composer<br/>Date: 29 September 2011 Place: NECTEC</p> <p>RC6 Workshop by teacher of university from Phuket: Undersea<br/>Date: 15 December 2011 Place: NECTEC</p> <p>2-4. The following 7 trainings were facilitated and 1 training is planned.</p> <p>miniWS3 Workshop by local trainer: LearnSquare, eDLTV(PAI)<br/>Date: 26-27 October 2010 Place: Pai</p> <p>miniWS5 Workshop by local trainer: Mobile contents(PAI, MSR)<br/>Date: 13,15 June 2011 Place: Mae sariang/Pai</p> <p>miniWS6 Workshop by local trainer: Remote class planning<br/>Date: 22-24 July 2011 Place: Mae hong son</p> <p>RC1 Workshop by local trainer: Microsoft word</p> |
|--|--|

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## Details of Project Achivement

Annex 10

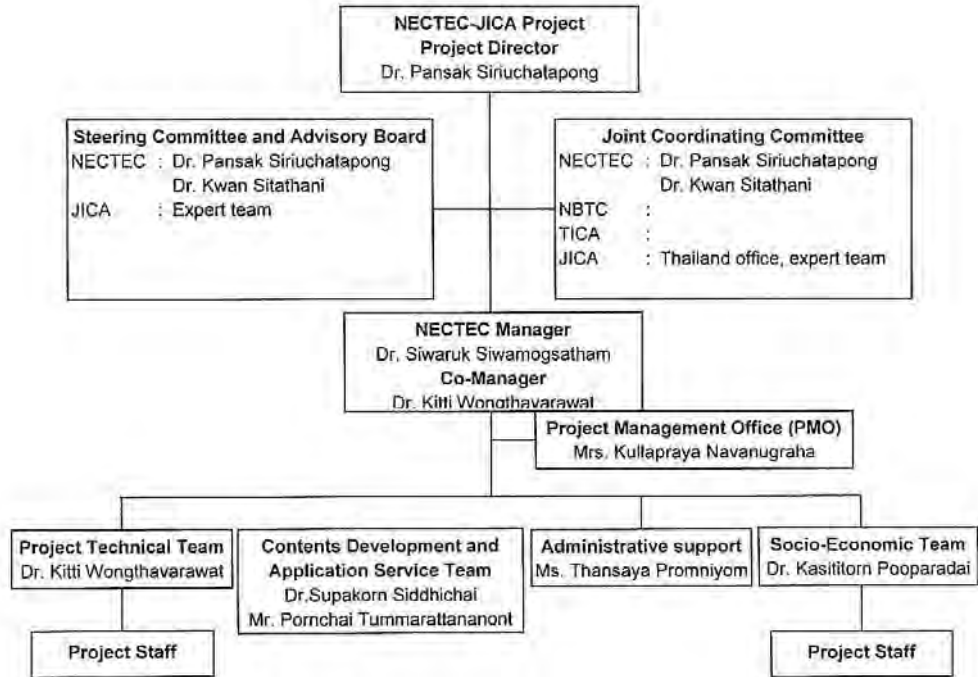
|   |  |  |
|---|--|--|
| <p>2-5. <u>To conduct the impact survey</u></p> <p>2-6. <u>To share the lessons learned from the Project with other related organizations, and promote the applications</u></p> | <p>Date: 14 June 2011 Place: Mae sariang<br/>RC3 Workshop by local trainer: Forest fires<br/>Date: 17 August 2011 Place: Mae hong son<br/>RC4 Workshop by local trainer: Photoshop<br/>Date: 7 September 2011 Place: Mae hong son</p> <p>2-5. Impact survey at sites has been conducted in August and September 2011. Documentation was completed in the end of January 2012.</p> <p>2-6. Working group meeting have been Sharing and promotion of application were included in RWCS model document. The session will be in the seminar planned on 6 March 2012.</p> |  |
|---|--|--|

### 3. Other activities (from 26<sup>th</sup> Apr 2009 – 20<sup>th</sup> of Feb 2012)

|   |  |  |
|---|--|--|
| (1)PPO (Project promotion office) and WG(Working group) | <ul style="list-style-type: none"> <li>● Project has held 2 PPO meeting with MHS governments and sites<br/>1<sup>st</sup> PPO 15<sup>th</sup> December 2010 at MHS government office<br/>2<sup>nd</sup> PPO 24<sup>th</sup> May 2011 at MHS government office</li> <li>● Several WG meeting (Technical working group and Application usage working group) were held in MHS.</li> </ul> |  |
| (2)System operation                                     | SO guideline, SO caravan, SO meeting, on line help desk system   | SO history                                   |
| (3)Usage promotion                                      | Usage monitoring, Video conference system and remote class promotion, Video conference and remote class management guideline, uninet connection  | Guideline, usage traffic monitoring analysis |
| (4) Project promotion                                   | Project orientation, Project promotional video production, Project web site, Face book, mailing list, radio interview, new paper, IT-valley fair, Princess Sirindorn presided over project opening ceremony in NAC, articles, NSTDA annual conference (NAC 2010 & 2011), Prime Minister Yingluck Shinnawatra video conference with project school via AcuConference                    | Promotion list<br>Visitor list               |
| (5) Unexpected impact                                   | The case of court in MHS   |  |
| (6) Sustainability plan                                 | Sustainability planning, Local coordination for transition   | Sustainability plan                          |

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**Organizational Structure of NECTEC**



*Mr. Ch*



**The Project for the Human Resource Development  
through Utilizing  
the Information Technology for  
Rural Community Vitalization in the Kingdom of Thailand**

**The Result of Questionnaire Survey for Mae Hong Son Site Administrators**

**February 2012**

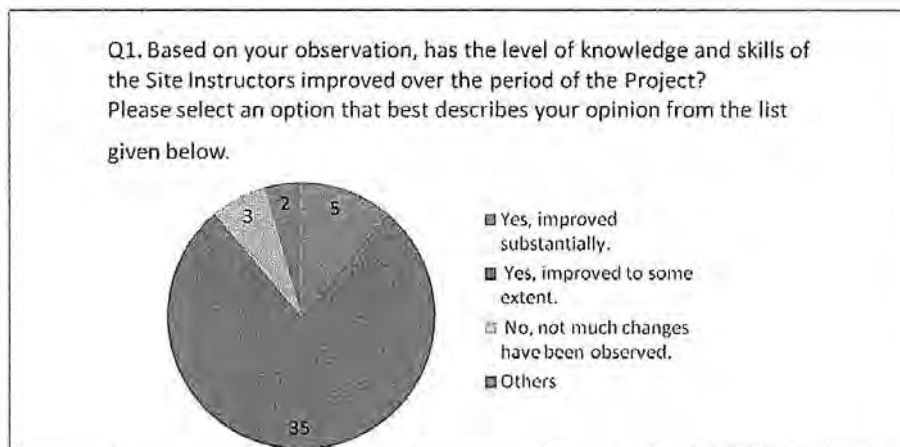
**Japan International Cooperation Agency**

**1. Objective of the Questionnaire**

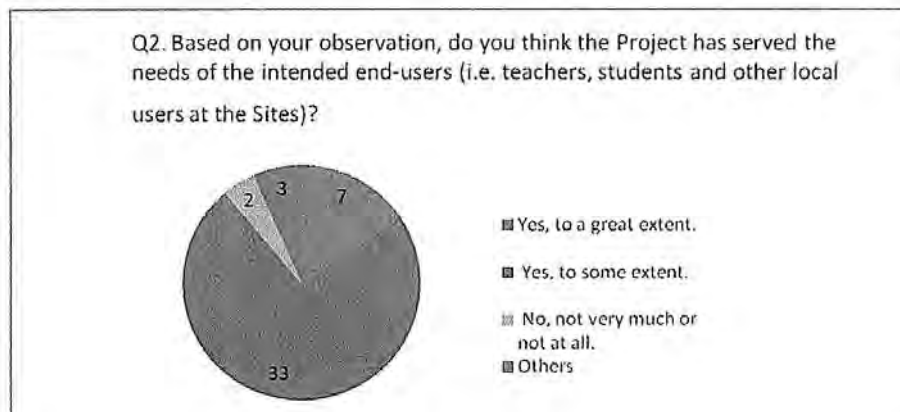
As a part of the terminal evaluation study on the project for the Project for the Human Resource Development through Utilizing the Information Technology for Rural Community Vitalization in the Kingdom of Thailand, the questionnaire survey for administrators of 45 sites in MHS was conducted to grasp the current situation of the project from January to February in 2012. The result of the survey is used for interviews conducted during the site visiting.

**2. Result of the Questionnaire**

1) Question 1

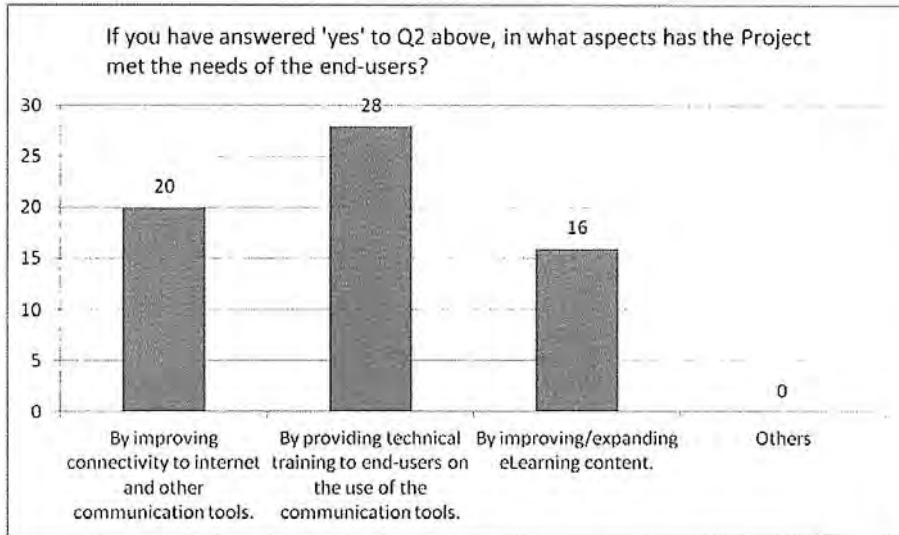


2) Question 2

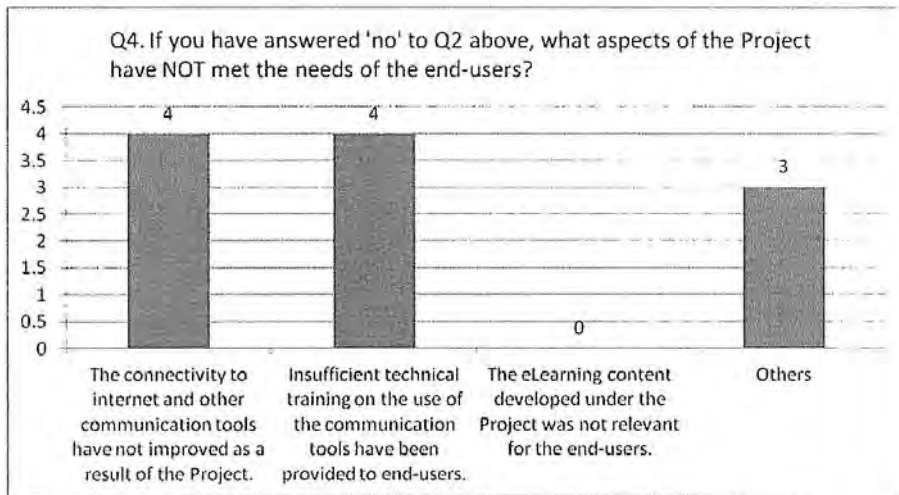


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3) Question 3

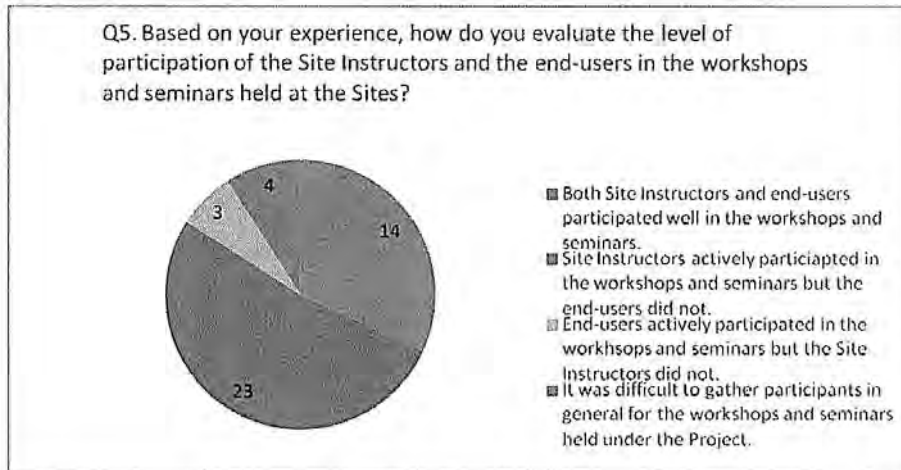


4) Question 4

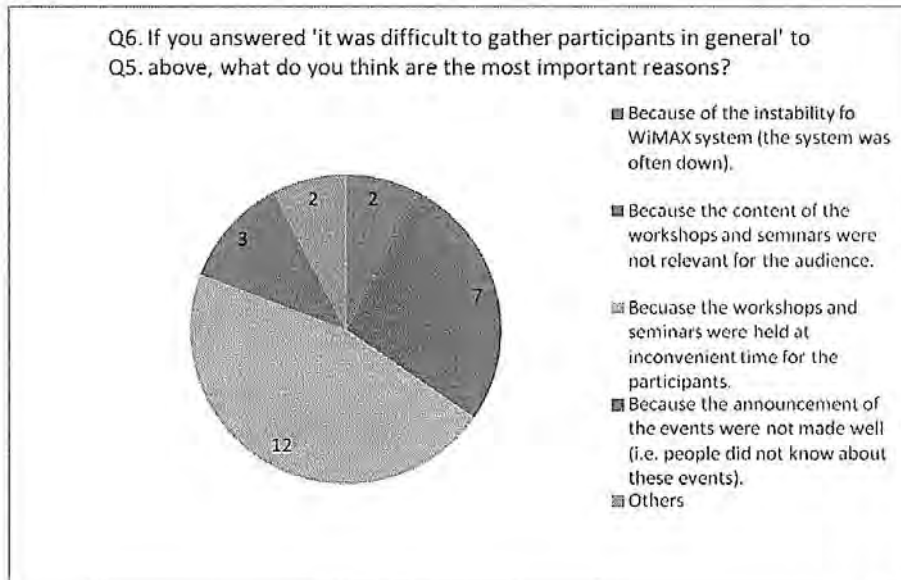


*Handwritten mark*

5) Question 5



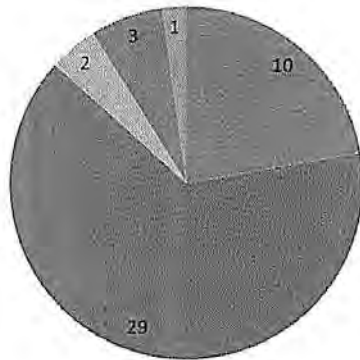
6) Question 6



Mr O

7) Question 7

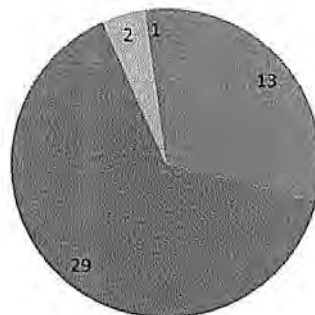
Q7. Which of the sentences below best describes your feedback regarding the selection of your institution as one of the 45 pilot Sites of the Project?



- It was a right decision to select our institution since we were ready both in terms of infrastructure and human resources.
- It was a right decision to select our institution even though some aspects of infrastructure was not suitable. It contributed towards human resources development at our institution.
- It was NOT a good idea to have selected our institution since we were not ready in terms of infrastructure.
- It was NOT a good idea to have selected our institution since we were not ready in terms of human resources.
- Others

8) Question 8

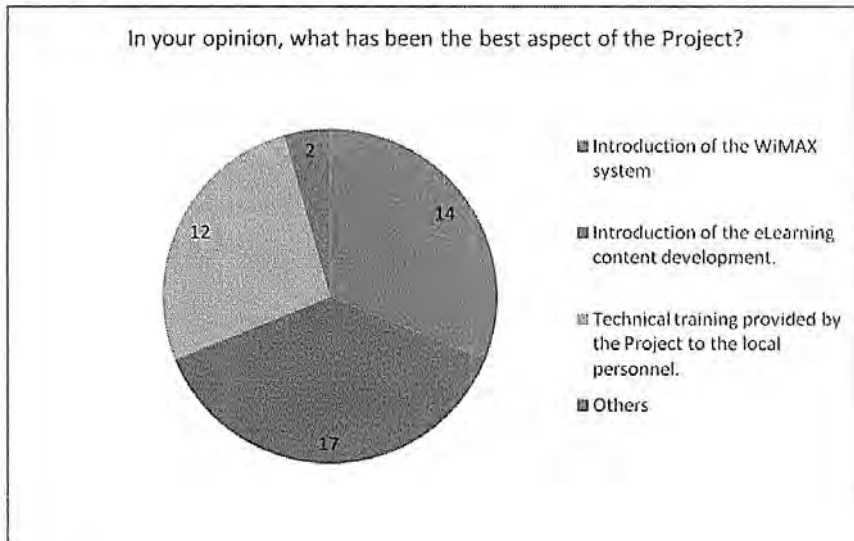
Based on your experience of participation in the Project, how do you assess the sustainability of the system at your institution after completion of the Project?



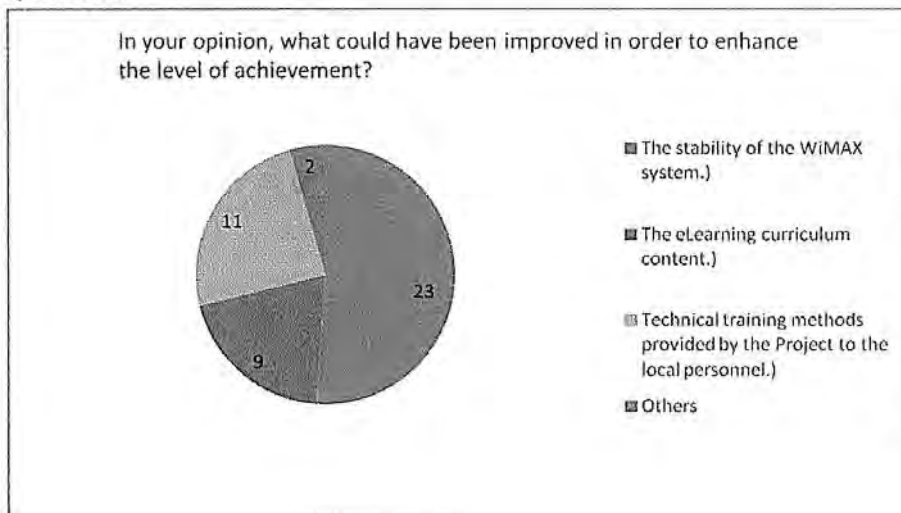
- The system will be sustainable beyond the Project period and will be well used and maintained.
- There is some hope that the system may be used beyond the Project period but maintenance will be a challenge.
- It is hard pushed to consider that the system will be maintained without the support of the Project.
- Others

*dr*

9) Question 9



10) Question 10



no

## 11) Question 11

Q11. Please provide any other feedback you might have toward the Project.

| No | Site No  | Comments   |
|----|--|--|
| 1  | โรงเรียนบ้านศรีชุมเมือง (B-SCH-10)                                 | Project takes long time to replace failure equipment   |
| 2  | สำนักงานสาธารณสุขจังหวัดแม่ฮ่องสอน<br>(A-GOV-02)                   | Should expand coverage to cover entire MHS area  |
| 3  | โรงพยาบาลปาย (C-GOV-02)  | Very good project, I have learnt LearnSquare and wimax system  |
| 4  | สำนักงานเขตพื้นที่การศึกษาประถมศึกษาแม่ฮ่องสอน<br>เขต 1 (A-GOV-05) | The number of CPE sites is limit and various in term of application usage.   |
| 5  | โรงเรียนแม่ละเรียง "นิเวศการศึกษา"<br>(B-SCH-01)                   | Should expand wimax to school that has no internet connection  |
| 6  | วิทยาลัยชุมชนแม่ฮ่องสอน (A-COM-01)                                 | Should include MHS people in planning of project activities, still lack on sense of ownership since have no part in project operation just join project during training and workshop |
| 7  | โรงเรียนบ้านเวียงยา (B-SCH-06)                                     | Should find someone to take care project after finish  |
| 8  | โรงเรียนบ้านเวียงเหนือ (C-SCH-04)                                  | Should continue IT seminar, workshop   |
| 9  | ตำรวจภูธรจังหวัดแม่ฮ่องสอน (A-GOV-06)                              | very good project and should expand to other areas to connect in term of education   |
| 10 | โรงเรียนปายวิทยาคาร (C-SCH-01)                                     | should have someone to take care of project after completion   |
| 11 | ห้องสมุดประชาชนจังหวัดแม่ฮ่องสอน<br>(A-COM-02)                     | Main seminar focus on education so other sectors have to adopt knowledge to suit with the organization themselves  |
| 12 | ร.ร.อนุบาลปาย , ชุมชนบ้านแม่ธิ<br>(C-SCH-03)                       | ย้ายจากโรงเรียนชุมชนบ้านแม่ธิ มาอยู่โรงเรียนชุมชนบ้านปางหมู ครับ   |
| 13 | โรงเรียนชุมชนบ้านน้ำคืบ (B-SCH-09)                                 | concern about sustainability   |
| 14 | โรงเรียนชุมชนเวียงยา (A-SCH-09)                                    | Should expand the receiver sites and area  |
| 15 | โรงเรียนราชประชานุเคราะห์ 21 (B-SCH-12)                            | wimax system cannot connect to internet  |
| 16 | อบจ.แม่ฮ่องสอน (A-GOV-04)  | wimax system cannot connect to internet  |
| 17 | วิทยาลัยการอาชีพห้วยผึ้งวิทยามินทรวินัยแม่ฮ่องสอน<br>(A-SCH-07)    | Should let users connect to internet via wimax system  |

EVALUATION GRID

Annex 13

| Criteria   | Topics  | Evaluation questions   |   | Information to be collected   | Source of Information  | Summary of Results  |
|--|---|--|---|---|--|---|
|  |   | Points to be confirmed (1)   | Points to be confirmed (2)  |   |  |   |
| 1. Achievement   | Inputs  | Has the inputs by the Japanese side been implemented as planned?   |   | experts allocation<br>Supplied Equipment<br>O/P Training<br>Operational Expenses                | Record of the experts allocation<br>List of Equipment provided by Japanese<br>Record of O/P Training<br>Record of Operational Expense  | Necessary information was collected.<br>According to the information, the inputs by both the Japanese and Thai sides has been implemented as planned.   |
|  |   | Has the inputs by the Thai side been implemented as planned?   |   | O/P allocation<br>Fact of office and equipment provision<br>Operational Expenses                | Record of O/P allocation<br>List of Equipment provided by Thai side<br>Budgets secured by Thai side  |   |
|  | Output  | Has the output 1 achieved as planned?  | The passage and change of Indicators  | Indicators of output 1 in PDM   | Progress reports, Monthly reports, Impact Survey report, Japanese experts, O/P, local instructors.   | Necessary information was collected.<br>The both outputs has been achieved as planned.  |
|  |   | Has the output 2 achieved as planned?  | The passage and change of Indicators  | Indicators of output2 in PDM  |  |   |
|  | Achievement of Project Purpose : "To strengthen the capability of NECTEC in developing the effective RWCS in the Kingdom of Thailand" | The passage and change of Indicators on the Project purpose  | 1. Development of the RWCS Model which was tested by Field Trial Testing (FTT)      | Indicators of the Project purpose on PDM  | 1. "The Study Report of RWCS" (Draft)  | RWCS Development Model document has been developed and FTT was conducted.   |
|  |   |  | 2. Enhancement of knowledge and skills of NECTEC on RWCS                            |   | 2-1. Interview Survey to NECTEC personnel, experts, other actors<br>2-2. Evaluation Study Report of Trial Testing  | Enhancement of knowledge and skills of NECTEC on RWCS has been successfully achieved.   |
|  |   |  | 3. Increase of Local trainers who have capacities for training and system operation |   | 3. The number of local trainers developed  | The number of seminars and workshops reached 54 times, total 318 days, and 977 participants were totally trained.   |
|  |   |  | 4. Enhancement of skills and knowledge of FTT                                       |   | 4-1. Guidelines for Field Trial Testing of Wireless Communication System<br>4-2. Monitoring report of Field Trial Testing<br>4-3. Interview Survey to NECTEC personnel, experts, other actors  | RWCS Development Model document has been developed and FTT was conducted.<br>Through every necessary process of FTT, very practical OUT was conducted. As a result, enhancement of skills and knowledge of FTT was successfully achieved. |
|  |   |  | 5. Proposal and Recommendation made to NTC(=NBTC) about proposed RWCS Model         |   | 5. Proposal to NBTC on RWCS Development Model  | On the final seminar on March 5, the RWCS Development Model was proposed to NBTC.   |
|  |   |  | 6. Satisfaction of users in MHS   |   | 6-1. The result of Impact Survey (report)<br>6-2. The result of the Questionnaire  | Satisfaction of users in MHS has been improved from the beginning to the end of the Projects.<br>There were participants not only teachers but also the people from the local community (hospital staff, police, IT vendor, etc.).        |
| Achievement of Overall Goal "RWCS for rural communities' vitalization" | Is the Overall Goal likely to be achieved?  | Is the Overall Goal likely to be realized as result of the Project after 3-5 years of the end of the Project?<br>Does the result of the Project achievement so far indicate the possibility to achieve the Overall Goal? | Indicators of the Project Overall Goal on PDM                                       | Progress reports, Monthly reports, Impact Survey report, Japanese experts, O/P, MHS authorities | The foundation to achieve the overall goal has created by the projects (i.e. Capacity of NECTEC and RWCS Development Model).<br>From the point of local stakeholders' view, there are positive change contributing to the overall goal. There is increasing number of people interested in IT and MHS government plans to expand more 15 base stations and 50 access points. |   |

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EVALUATION GRID

| Criteria                  | Topics   | Evaluation questions  |   | Information to be collected  | Source of Information  | Summary of Results  |  |
|---------------------------|--|---|---|--|--|---|--|
|                           |  | Points to be confirmed (1)  | Points to be confirmed (2)  |  |  |   |  |
| 2. Implementation process | Activities   | Have the activities been implemented as the first plan?   | Have the activities implemented after the operation survey according to the plan?   | Actual records of activities   | Records of project activities, PO, Progress reports, Monthly reports, experts  | Project activities have been conducted as planned. Though there was disturbance caused by natural disaster, the Project reschedule the plan and completed the activities.   |  |
|                           | Method of technology transfer  | How is the method of technology transfer?<br><br>Is there any issue on method of technology transfer and implementation process?  | 1. Technology transfer to NECTEC: about FTI planning and implementation, and development of RWCS Model  | 2. Technology transfer to NECTEC: about system operation and maintenance<br><br>3. Technology transfer to NECTEC: about contents development and the training planning | Each report, comments of G/P, Japanese expert, local instructor, site administrator  | Progress reports, Monthly reports, Japanese experts, C/P, local instructor, site administrator  | Technology transfer has been conducted by very practical OJT after explaining theoretical points. No issues were raised by C/P regarding such a method. Originally, G/P of NECTEC has high skills and Knowledge on IT enough to acquire new technology without difficulty. |
|                           |  |   | Technology transfer has been conducted by very practical OJT after explaining theoretical points. No issues were raised by C/P regarding such a method. C/P of NECTEC has high skills and Knowledge on IT enough to acquire new technology without difficulty. The experts taught the method for management of training plan through holding various events with C/P. |  |  |   |  |
|                           | YES: Model Site Caravans by experts and C/Ps of NECTEC at 2 month intervals. J-experts accompanied C/Ps to various training and events (SEM, WS, PT, mini-WS, etc.). J-experts coached C/Ps for the management with the unified format for record of results of training and events. J-experts and NECTEC's G/Ps worked in the same office room, and had the regular joint meeting (JCC) at 2 month intervals. |   |   |  |  |   |  |
|                           | Operation of the Project   | Has monitoring appropriately conducted? (ex. Has it regularly been conducted? Did monitoring lead to the settlement of issues?)   | How has the monitoring been conducted to monitor the Project progress in MHS?   | Each report and comments of C/P, expert, local instructor, administrator   | Record of activities, progress reports, monthly reports, experts, C/P, local instructors, administrators,                                    |   |  |
|                           |  | Has the Project management system appropriately worked?   | Is there any issue on the Project management system?  | Comments from experts, C/P, local instructors, administrators  | experts, C/P, local instructors, administrators  | The Project management system has appropriately worked.   |  |
|                           |  |   | Is there any issue on the process of decision making?   | Record of decision making  | MM of JCC  | NECTEC has a main initiative to decide the operation of the Project. But, Important decision has been made by the member of JCC.  |  |
|                           |  |   | Is there any issue on coordinating and cooperating with related institutes?   | Comments from the related institutes   | experts, C/P, local instructors, administrators, Ministry of ICT, Ministry of Education, NSTC, local authorities                             | Coordinating and cooperating with related institutes have been appropriately conducted.   |  |
|                           |  | Has communication in the Project appropriately worked?  | How is the internal communication in the Project team?  | Japanese expert, C/P, local instructor, site administrators  | experts, C/P, local instructors, administrators  | Experts and C/P work in the same room and there is good communication.  |  |
|                           | How is the communication with the stakeholders except the Project team members?  |   |   |  | C/P has good relationship with stakeholders in MHS since they started working together for the IT Valley project before the Project started. |   |  |
|                           | Commitment by Thai side  | Commitment by C/P to the Project  | Is there any gap about perception of the Project between NECTEC and C/P?  | Comments of C/P, expert, instructor, administrator   | Progress reports, Monthly reports, Japanese experts, NECTEC, local instructor, site administrator  | NECTEC and C/P share the positive attitude to the Project, and there is no gap between them. The commitment is sufficient to implement the Project.   |  |
|                           |  |   | Commitment to the Project by NECTEC and C/P   |  |  |   |  |
|                           |  | Commitment by Thai side   | Has C/P been appropriately assigned?  | Comments of experts and C/P  | Record of C/P allocation, experts, C/P   | Some C/P left the Project because of staff relocation of NECTEC. However, NECTEC reassigned new C/P immediately.  |  |
|                           | Others   | Motivation of involvement and participation of target group and related institutes<br><br>What is the important event/factors which encouraged/discourage the Project Purpose to be achieved? | How is the situation regarding the motivation and involvement of local instructors and users?   | Impact survey report, comments of experts, C/P, local instructors, MHS authorities   | Impact survey report, experts, C/P, local instructors, MHS authorities   | Motivation of C/P and instructors are very high, however, participants of users (teachers and students) were limited, because users have job, and necessary to get a permission by their director to participate in the seminars/workshops. The travel cost also a problem. |  |
|                           |  |   | Important event/factor which encouraged/discouraged the Project Purpose to be achieved, if any  | Comments of C/P, expert, local instructor, MHS authorities.  | C/P, expert, local instructor, MHS authorities.  | [Positive]<br>Princess royal encouraged the Project. She mentioned supportive comments about IT utilization in MHS vitalization on media.<br><br>[Negative]<br>Natural disaster (e.i. landslide and flood)  |  |

EVALUATION GRID

Annex 13

| Criteria     | Topic    | Evaluation questions   |  | Information to be collected  | Source of information   | Summary of Results   |
|--------------|----------|--|--|--|---|--|
|              |          | Points to be confirmed (1)   | Points to be confirmed (2)   |  |   |  |
| 2. Relevance | Needs    | Is the purpose of the Project relevant to needs of Thailand?   | Is it relevance to the needs of the target area?   | Comments of NECTEC, MHS authority  | NECTEC, MHS MHS authority   | Through the Project, NECTEC developed the practicable RWCS with WMAX for rural areas. It is a matter of great urgency for Thai government to improve "e-government" in ICT2020, the Project can contribute to the government's policy.   |
|              |          |  | Is it relevance to the needs of the target group (end-users)?  | Comments of local instructors and users  | Local instructors, students, school directors   | According to the result of the questionnaire and interviews, it is relevant to the needs of the targets group (teachers and students)  |
|              | Priority | Is it relevance to the upper policies?   | Is it relevance to the Japan's development assistance policy to Thailand?  | Priority area for cooperation in Japan's assistance policies to Thailand, Japan-ASEAN Declaration (2011) | the Japan's development assistance policy to Thailand, Japan-ASEAN Declaration (2011) | Improvement of communication infrastructure in rural areas is relevant to one of the Japan's development assistance policy to Thailand which is to support to strengthen the economic competitiveness. In addition, Japan also declared the cooperation for ICT field for ASEAN countries. Therefore, the Project is relevance to the policies of Japan. |
|              |          |  | Is it relevance to the national policy of Thailand, and not change the slogan "Economic society based on knowledge"? | National Broadband Policy(Nov.2010) ICT2020 (Mar.,2011)  | NECTEC, NBTC, Ministry of ICT, Ministry of Education, JICA Thai office                | The policy is not changed. It is a matter of great urgency for Thai government to implement "e-government" in ICT2020. The Project is able to contribute to the government's policy. (Refer to ICT2020)*2  |
|              | Strategy | Is the Project appropriate as an effective strategy for human resource development and lessening Digital Divide in rural area of Thailand? | Is the Project approach (RWCS Model Development, Capacity building of Trial Testing Technology) appropriate?         | Pre-Evaluation, Comments of experts and C/P  | Pre-Evaluation, experts and C/P   | Utilizing WMAX is useful to improve the communication infrastructure in rural areas, and RWCS Development Model highly contributes to plan and implement the RWCS by NBTC. So, this approach is appropriate.   |
|              |          |  | Is the selection of target areas for the trial testing appropriate?  | Comments of experts, C/P, MHS authorities, local instructors, users, etc.                                | experts, C/P, MHS authorities, local instructors, users, etc.                         | MHS in the poorest area in term of ICT index in Thailand. There is also related project "IT Valley". Because of these reasons, MHS was selected and it is reasonable.  |
|              |          |  | Is the selection of sites (total 45 institutes in 3 areas) in MHS appropriate?                                       |  |   | It is appropriate because the sites were selected according to the demand of local communities and the geographical conditions.  |
|              | Others   | Is there any change in the environment after the Project started?  | How did NECTEC coordinate with other donors?   | Activities to collaborate with other donors  | Report of activities, Ministry of ICT, Ministry of Education                          | The Project has been collaborating with IT Valley project. UN supported project is implemented in MHS, and the related mission from Mongolia visited the Project sites.  |
|              |          |  | Political, economic and social change after the Project started  | Comments of experts, C/P, MHS authorities, local instructors, users, etc.                                | Experts, C/P, MHS authorities, local instructors, users, etc.                         | Because of the flood, the Project was disturbed. NECTEC office was damaged. But, there was not much damage in the sites in MHS.  |

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EVALUATION GRID

| Criteria         | Topics  | EVALUATION QUESTIONS  |  | Information to be collected   | Source of Information   | Summary of Results  |                 |   |
|------------------|---|---|--|---|---|---|-----------------|---|
|                  |   | Points to be confirmed (1)  | Points to be confirmed (2)   |   |   |   |                 |   |
| 4. Effectiveness | The extent to which the Project Purpose is likely to be achieved        | Has the Project Purpose been achieved?  | Results of the FTT on RWCS Model   | Evaluation Study Report of RWCS Field Trial Testing (Feb. 14, 2012)*1, comments from experts, C/P, local instructors, users | Evaluation Study Report of RWCS Field Trial Testing (Feb. 14, 2012)*1, experts, C/P, local instructors, users | FTT was successfully conducted, and it indicates that the Project purpose which is capacity building of NECTEC is already completed.  |                 |   |
|                  |   |   | Results of technology transfer to NECTEC on RWCS Development Model and system maintenance (comparing the Baseline Survey and Impact Survey result) |   |   | NECTEC has already learned the necessary knowledge and skills of the system maintenance through OJT.  |                 |   |
|                  |   |   | Results of technology transfer to local instructors and the level of satisfaction of end users in MHS  |   |   | The participants at the Training (seminars, workshop, etc.) were satisfied. The participants were not only teachers but also people from local communities such as hospital's staff, police personnel, IT vendors, etc. |                 |   |
| 4. Effectiveness | Causality between the achievement of the Output and the Project Purpose | Effect of assumption (external condition)   | Was the achievement of the Output sufficient to achieve the Project Purpose?   | PDM, Comments of experts and C/P  | PDM, Comments of experts and NECTEC   | Through achieving the outputs, C/P has acquired necessary knowledge and skills, which is equal to achieving the Project purpose. Thus, the achievement of the Outputs is sufficient to achieve the Project Purpose.     |                 |   |
|                  |   |   | Is the assumption still appropriate to achieve the Project purpose from the Output?  |   |   | Comments of experts and C/P   | Experts and C/P | There is no change related to the assumption. Refer to ICT2020 *2 |
|                  |   |   | Was there any effects related to the assumption?   |   |   |   |                 |   |
| 4. Effectiveness | Effect of the Assumption  | Were there any factor that might contribute and/or obstruct the achievement of the Project Purpose? | Was there any factor that might contribute and/or obstruct the achievement of the Project Purpose?   | Comments of experts and C/P   | Experts and C/P   | Disappear the data of contents by the failure of LMS because of the flood in Oct and Nov, 2011.   |                 |   |

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EVALUATION GRID

Annex 13

| Criteria  | Topics   | Evaluation questions  |   | Information to be collected   | Source of information   | Summary of Results   |
|---|--|---|---|---|---|--|
|   |  | Points to be confirmed (1)  | Points to be confirmed (2)  |   |   |  |
| 5. Efficiency   | Status of the Output   | Have the Outputs appropriately been achieved?   | Considering the result of FTT, is progress of the achievement of Outputs appropriate?                                     | Indicator in PDM, actual record of input and output                       | Record of activities, progress reports, monthly reports, experts, C/P   | The outputs were already achieved. There is addition input to overcome the delay caused by the flood. But, except such additional input, the outputs were achieved according to the planned input.   |
|   |  |   | Is the status of Output proportionate to the Input?   |   |   |  |
|   |  |   | Are there synergy effects between the Project and other project by JICA?  |   |   |  |
|   | Causality between the Activities and the achievement of the Output | Causality between the Activities and the achievement of the Output  | Were the quantity, quality and timing for OJT, contents of training to C/P appropriate for the development of RWCS Model? | Information to show the causality between the activities and outputs      | Impact survey report, developed curriculum contents and usage, progress reports, monthly reports, experts, C/P, local instructor, users | Through achieving the outputs, C/P has acquired necessary knowledge and skills, which is equal to achieving the Project purpose, C/P are fully satisfied with conducted technology transfer. Thus, it indicates that the causality is confirmed.<br><br>Since the developed curriculums are mostly for education the impact is limited in education field in fact. But, the seminars/workshops enables people in IT community to have a social network which may encourage the future IT related services. |
|   |  |   | Was the developing process of the curriculum and contents useful for "the Rural Community Vitalization"?                  |   |   |  |
|   |  | Effect of assumption (external condition)   | Is the assumption still appropriate to achieve the Project purpose from the Output?                                       | Comments of experts, C/P, MHS authorities                                 | PDM, experts, C/P, MHS authorities  | The assumption is correct still now.<br><br>There were staff relocations in NECTEC, but effect was a little because NECTEC reassigned new C/P.   |
|   |  |   | Was there any effects related to the assumption?  |   |   |  |
|   | Input  | Did input appropriately provided? (quantity, quality and timing for input)  | Was the experts appropriately dispatched in terms of the quantity, quality and time?                                      | Comments of experts, C/P, record of experts allocation, list of equipment | experts, C/P, record of experts allocation, list of equipment   | The experts were dispatched as planned and the expected outputs were already achieved.<br><br>There was delay of equipment procurement which was managed in Japan, But the delay does not make the Project delayed because of efforts by C/P and experts to overcome.  |
|   |  |   | Was the equipment appropriately provided in terms of the quantity, quality and time?                                      |   |   |  |
|   | Activities   | Activities of the Output 2 (Improving skill and knowledge of C/P for RWCS Model Development and it's maintenance)         | Were activities for output1 (design, construct, OJT, Training for RWCS) conducted timely?                                 | Record of activities, comment from C/P                                    | Record of activities, C/P   | Because of the delay of the equipment procurement, the schedule was changed.   |
| Activities of the Output 2 (Contents Developing and Training Planning and Operating NECTEC and MHS) |  | Were activities for output2 (curriculum development and usage for local instructors and users in MHS) implemented timely? | Record of activities, comments of local instructors and users   | Record of activities, local instructors and users                         | Seminars/Workshops were conducted. The day and time were arranged to meet the demand of local participants as much as possible.         |  |
| Cost  | Is the overall cost appropriate?                                   | Are the Project's cost likely to appropriate comparing the input and achieved output?                                     | Record of input, quality of outputs, comment of experts and C/P   | Record of input, RWCS Development Model document, experts, C/P            | The procurement process focus on cost effectiveness, and the outputs were sufficient to achieve the Project purpose.                    |  |
| 6. Impact   | The extent to which the Overall Goal is likely to be achieved      | Is the achievement of the Project Purpose likely to contribute the achievement of the Overall Goal?                       | Is 'the RWCS Development Model' to vitalize the community likely to be put to practical use?                              | Results of FTT, comments from experts, C/P, NBTC                          | Results of FTT, experts, C/P, NBTC  | RWCS Development Model was developed and proposed to NBTC. It depends on NBTC how to use it to expand the RWCS to other areas. NBTC accepted RWCS as a crucial tool for expanding connectivity in rural areas.   |
|   | Causality  | Relation between the Project purpose and the Overall Goal   | Is consequence between the Project purpose and the Overall Goal logically designed?                                       | PDM, comments from experts and C/P  | PDM, experts and C/P  | It is logically designed but there are still some external factors such as instable power supply in rural areas, maintenance, WIMAX licence for business use, etc.   |
|   |  | Effect of external factors  | Is the assumption still appropriate to achieve the Project Overall Goal from the Project purpose?                         |   |   | The assumption is still appropriate, but the current assumption should include the issues on power supply and maintenance will be solved by NBTC and/or local authorities.<br><br>The abovementioned issues have been considered by the Project from more than 1 year ago. NECTEC is now developing the sustainability plan to propose to MHS authorities. In case of another district, local authorities will be main stakeholders for sustainability.  |
|   | Effect to others   | Unexpected impact   | Is there any unexpected impact in terms of gender, tribes, economic and social aspects, etc.?                             | Comments of experts, C/P, MHS authorities                                 | Experts, C/P, MHS authorities   | A new divide between schools which enjoy the benefits of IT and ones which cannot may happen. This is an emerging issue to be solved in the future. Similarly, a gap between IT-skilled students and non-skilled ones will happen, too.  |
| Is there any different impact depending on gender and social group for example                      |  |   | Comments from local instructors, and users  | local instructors, and users  |   |  |

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EVALUATION GRID

| Criteria               | Topics   | EVALUATION QUESTIONS   |   | Information to be collected  | Source of information  | Summary of Results  |  |   |
|------------------------|--|--|---|--|--|---|--|---|
|                        |  | Points to be confirmed (1)   | Points to be confirmed (2)  |  |  |   |  |   |
| 7. Sustainability      | Political sustainability   | Will the political support for the Project be maintained after the end of the Project? | Will the Thai policy to aim "Economy and society based on knowledge" be maintained?   | ICT2010+2. Comments from Ministry of ICT   | ICT2010+2, Ministry of ICT   | The policy will be maintained.  |  |   |
|                        | Institutional/Financial sustainability (NECTEC)                            | Dissemination of the technology transferred by the Project                             | Is there a mechanism to enable to disseminate the output of the Project after the end of the Project?   |  | C/P, MHS authorities   | C/P, MHS authorities  | RWCS Development Model will be updated and will be used by NBTC to expand RWCS to other rural areas.   |   |
|                        |  | Financial condition  | Will NECTEC continue to maintain the RWCS after the end of the Project?   |  |  |   | NECTEC will maintain the RWCS in MHS by Nov. 2012. Before this point, NECTEC has an initiative to discuss with related local stakeholders to decide the sustainable plan.  |   |
|                        |  | Does C/P has an ownership of the Project?  | How is the status of the system operation working group?  |  |  |   | NECTEC is now making the sustainability plan for MHS site and it will be completed in a few month. Based on the plan, the related organizations will discuss about the sustainable plan. Since NECTEC is a research institute, the system operation in MHS cannot be managed by NECTEC. The MHS authorities will be an owner of the system and NECTEC will provide necessary technical support for them. |   |
|                        |  | Institutional status   | Does NECTEC have the planning and implementing capacities (budget, staffing, decision making process, etc.)   | Status of NECTEC and MHS   |  |   | C/P, MHS authorities   | Regarding the updating and revising RWCS Development Model, NECTEC has enough capacity and will implement necessary activities. Regarding the support for MHS sites, capacity is limited. Before Nov 2012, financial and technical supports will be provided for MHS authorities, but after that the support will be minimized. |
|                        | Social, cultural, environmental aspect                                     | Effect hindering ensuring the sustainability   | Is there any factor (social, cultural, environmental aspects in MHS and Thai) which hinders the sustainability?   | Comment of C/P and MHS authorities   | C/P, MHS authorities   | Natural disaster is the serious potential negative factor.  |  |   |
|                        | Technical sustainability   | Technical issues   | Has C/P already acquired the knowledge and skills on the planning and implementing FTI and RWCS Development Model to disseminate it after the end of the Project? | Information about improvement of technical knowledge and skills of C/P, manuals, RWCS Development Model document | Progress reports, monthly reports, Impact Survey, Evaluation study report, manuals, RWCS Development Model document, expert, C/P   | C/P has already acquired the knowledge and skills on the planning and implementing FTI and RWCS Development Model to disseminate it after the end of the Project. In fact the FTI and RWCS Development Model were implement by C/P and experts checked the quality. |  |   |
|                        |  |  | Has C/P already acquired the knowledge and skills on the system operation of RWCS to disseminate it after the end of the Project?                                 |  |  |   | C/P has already acquired the knowledge and skills on the system operation of RWCS to disseminate it after the end of the Project. However, there is an addition request for assistance for C/P to learn the knowledge on Disaster Recovery Plan that is not included the Project scope.  |   |
|                        |  |  | Have the local instructors already acquired the knowledge and skills on developing curriculum after the end of the Project?                                       | Information about improvement of technical knowledge and skills of local instructors and support staffs.         |  |   | Progress reports, monthly reports, Seminar and Workshop reports, Impact Survey, result of questionnaires, expert, C/P, local instructors, MHS authorities, support staffs  | The level of technology transfer to the local instructors is limited. According to the questionnaires, local instructors skill was improver in 41 of 45 sites. There are both successful sites and not so successful ones. It highly depend on director's policy and instructor's interest.                                     |
|                        |  |  | Have the sites IT support staffs in MHS already acquired the knowledge and skills on user support and troubleshooting after the end of the Project?               |  |  |   |  | The level of technology transfer to the local support staff is limited. It also highly depends on director's policy and staff's interest. Without support by NECTEC, it may difficult for them to maintain the system.  |
| Overall sustainability | The overall sustainability of the Project judged in a comprehensive manner |  | Judge sustainability in a comprehensive manner in consideration of all aspects  | Judge sustainability in a comprehensive manner in consideration of all aspects                                   | According to the Project purpose, the sustainability is high because NECTEC already has acquired necessary knowledge and skills for expanding RWCS to other areas. On the other hand, the sustainability of MHS sites is not sure. It depends on the stakeholders and external factors such as feasibility of reliable power supply and availability of WMAX license for business use. Considering the positive attitude of MHS authorities to use WMAX service for more areas and purposes, the overall sustainability can be assessed as medium (+). |   |  |   |

\*1: "Evaluation Study Report of RWCS Field Trial Testing" (Feb. 14, 2012)\*1  
 \*2: ICT2020 Executive Summary (Mar. 2011)

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Record of Site Visits (February 23 to 29, 2012)  
for the Terminal Evaluation of

Annex 14

The Project of Human Resource Development Through Utilizing the Information Technology for Rural Community Vitalization

| Field Survey |   | Site  |   |  |   |   |   |   |   |                      |   |
|--------------|---|---|---|--|---|---|---|---|---|----------------------|---|
| No.          | Topic   | Mae Hong Son  |   |  |   | Mae Saring                              |   |   |   | Pai                  |   |
| 1            | Site Area                                       | A-SCH-01  | A-SCH-05  | A-SCH-08   | A-GOV-01  | B-SCH-01                                | B-SCH-02  | B-SCH-06  | B-SCH-04  | C-SCH-01             | C-GOV-02  |
| 2            | Site Code                                       |   |   |  |   |   |   |   |   |                      |   |
| 3            | Site Name                                       |   |   |  |   |   |   |   |   |                      |   |
| 4            | Survey Date                                     | 28-Feb, '12   | 28-Feb, '12   | 27-Feb, '12  | 28-Feb, '12   | 27-Feb, '12                             | 27-Feb, '12   | 27-Feb, '12   | 27-Feb, '12   | 29-Feb, '12          | 29-Feb, '12   |
| 5            | Time  | 10:00   | 9:00  | 16:00  | 11:00   | 9:00                                    | 10:00   | 13:00   | 11:00   | 9:00                 | 10:00   |
| 6            | Interviewed Person                              | Mr. Prakit  | Ms. Varanya   | Mr. Pornchai<br>Mr. Intanin  | Mr. Sudkhet   | Mr. Surapon                             | Ms. Panadda   | (Ms. Pimpapai-V-Dir.)<br>Ms. Veeraya                                      | Mr. Danai   | Mr. Villaya          | Mr. Vitae   |
| 7            | Position of Person                              | CP-Teacher  | CP-Teacher  | CP-Teacher   | System Technician   | MAS teacher                             | CP-Teacher  | CP-Teacher  | CP-Teacher  | CP-Teacher           | support center chief  |
| 8            | Link (Tier)                                     | 3   | 3   | 3  | 3   | 3                                       | 3   | 3   | 3   | 3                    | 3   |
| 9            | Administrator                                   | x   | x   |  | x   | x                                       | x   | x   | x   |                      | x   |
| 10           | Instructor                                      | x   | x   | x  |   | x                                       | x   | x   | x   | x                    |   |
| 11           | End User (Teacher/Staff)                        |   |   |  |   |   |   |   |   |                      |   |
| 12           | End User (Student)                              |   |   |  |   |   |   |   |   |                      |   |
| 13           | Age   | 32  | 25-30   | 25-30  | 35-40   | 30-35                                   | 25-30   | 25-30   | 25-30   | 35-40                | 28  |
| 14           | School (K/E/J/H/U)                              | J   | K-E   | J-H  |   | H                                       | E-J   | E-J   | K-E-J   | J                    |   |
| 15           | Gov.  |   |   |  | Government Office   |   |   |   |   |                      | Hospital  |
| 16           | Community/Other                                 |   |   |  |   |   |   |   |   |                      |   |
| 17           | No. of (Teacher)/(Staff)                        | (70)/(10)   | (23)/(7)  | (50)/(8)   | 40  | (80)/(10)                               | (80)/(3)  | (25)/(2)  | (25)/(3)  | (35)/(10)            | 150   |
| 18           | CP Skill of Teach./Staff (%)                    | (100%)(50%)   | (100%)(70%)   | 100%   | 100%  | (100%)(80%)                             | 100%  | 100%  | 100%  | (100%)(70%)          | 100%  |
| 19           | No. of Students                                 | 1400  | 605   | 1100   |   | 1000                                    | 650   | 329   | 426   | 799                  |   |
| 20           | CP Skill of Stu. (%)                            | 100%  | (E)100%   | 100%   |   | 100%                                    | 100%  | 100%  | (E-J) 100%  | 100%                 |   |
| 21           | No. of PCs                                      | 180   | 100   | 150  | 35  | 200                                     | 80  | 30  | 80  | 120                  | 85  |
| 22           | Confirm of answer of the Pre-Questionnaire      | Q4: Internet inaccessibility, Q5: System down, Backbone NW's Cable Trouble              |   |  | Q2: The transmission speed is limited. Already, The office has a leased line with 50M. Q6: There were a lot of system-downs.                              |   |   | Q4: Not negative. (Increase more participants)                            |   |                      | Q1: (Mistake) 2. Yes, improved to some extent. (Very good Project)                  |
| 23           | Total No. of Curriculums                        | 150   | 60  | 240  |   | 100                                     | 100   | 176   | 80  | 150                  |   |
| 24           | No. of Cu. Using eL/Contents                    | 80%   | 8(10%)  | 70%  |   | 30%                                     | 10%   | 150 (80%)   | 10%   | 100%                 |   |
| 25           | Demonstration of eL/Contents                    | The e-L System is used for the information of Fire Protection. And lesson to PhuKet.    | The e-L is used on the lesson of Foto-shop to PhuKet. | After 2 months, the Linhat will be connected, and e-L will be able to be used. | He maintains the system, and WEB site of government's HP. The TV conference cistem is used for conference with Bangkok. Demonstrate the HP which he made. | 3 high schools use eL for joint-lesson. | Demonstrate the contents which instructor made.                     | No. of Contents: Teachers:70 Students:100 (e-BOOK (Software for edition)) | Demonstrate the contents which instructor made.                                   |                      |   |
| 26           | No. of Contents                                 | 200   | 6   | 70   |   | 1 subject                               | 3   | 170   | 9   | 70                   | 20  |
| 27           | No. of Tech/Staff (skilled)                     | 90%   | 1   | 90%  | 1   | 4                                       | 4   | 20  | 4   | 35                   |   |
| 28           | No. of Stu (skilled)                            | 100%  | 100% (make slides)                                    | 100%   |   | 0                                       | 0   | 154   | 0   | 300                  | 10  |
| 29           | No. of Teach/Staff (participate SEM/WS)         | 12  | 1   | 4  | 1   | 4                                       | 4   | 4   | 2   | 5                    | 2   |
| 30           | What kind of Contents is preferred by students? | CP Graphic, Music, Science  | Culture, Society                                      | Thai, Art  |   | Thai                                    | CP Graphic, Science   | CP  | CP  | CP, Sports           | CP subject  |
| 31           | Comments of teacher/staff                       | Connect ability to Internet. Trouble on Backbone NW. Stability of PW, SEM & WS is good. | Connectability to Internet. SEM & WS is good.         | It is necessary e-Learning contents. Training for new tech.                    | The Transmission speed is limited.  | SEM & WS were good, and skill was up.   | SEM, WS were good, but it was better to hold on Saturday or Sunday. | There were many failures of hardware and power.                           | There were many failures of hardware and power. Desire more training for network. | Moving every 2years. | TV Conference system is used for connection of 12 hospitals in Pai. The Project was |
| 32           | WIRMAX  | x   | x   |  | x   | x                                       | x   | x   | x   | x                    | x   |
| 33           | ADSL  | x(1M)   | x(512K)O.F.   | x (1M)   |   | TOT:1M 2L ; CAT:3M 1L                   | x(2M)   |   | x(2M)   | x(1M)                | x(2M)   |
| 34           | Leased Line                                     |   |   |  | x(50M)  | TOT:1L                                  |   |   |   | x(CAT:20M)           | x(TOT:15M)  |
| 35           | Ipostar (512K) (Satellite)                      |   |   |  |   |   |   | x   |   |                      |   |
| 36           | BS-CPE (Km)                                     | 1.61  | 1.10  |  | 1.37  | 3.85(JomKitti), 2.2(DoiChang)           | 1.8(JomKitti), 1.93(DoiChang)                                       | 3.22(JomKitti), 5.05(DoiChang)  | 1.98(JomKitti), 1.78(DoiChang)  | 1.50                 | 2.13  |

\* K=Kindergarten, E=Elementary School, J=Junior High School, H=High School



添付4. PDM (Ver. 1.0, 2.0, 3.0)

Project Design Matrix (PDM)

Version 1.0

Date of formulation: 20<sup>th</sup> January 2009 (R/D)

Project Title : 'the Project of Human Resource Development through Utilizing the Information Technology for Rural Community Vitalization'

Project Term : XX XX 2009 – XX XX (2years) project sites: NECTEC at Science Park in Pathumthani Province, Mae Hong Sonn Province,

Target group : NECTEC, Schools, Communities, Local Authority, and Local business of Model Site Mae Hong Son Province

| Narrative Summary   | Objectively verifiable Indicators   | Means for obtaining Indicators   | Important Assumption   |
|---|---|--|--|
| [Super Goal] (Long term goal)<br>Enhancement of accessibility to Information Technologies (IT) in rural areas.  | 1. Expansion of internet access users among general households, schools and local business in rural areas.  | 1-1. NECTEC ICT Indicators<br>1-2. Report of Socio-Economic Survey by National Statistics Office (NSO)   |  |
| [Overall Goal] (Middle term goal)<br>Rural wireless communication system is applied for rural communities' vitalization.  | 1. Provinces introducing the Rural Wireless Communication System.<br>2. Types and scale of users in the provinces introducing the Rural Wireless Communication System.  | 1&2<br>1) Interview Survey to NECTEC, NSTDA and NCT<br>2) NECTEC ICT Indicator   | The Government of Thailand sustains the current IT policy aiming at community development. |
| [Project Purpose]<br>To strengthen the capability of NECTEC in developing the effective rural wireless communication system in the Kingdom of Thailand.   | 1. Development of the Rural Wireless Communication System Model which was examined by Trial Test.<br>2. Enhancement of knowledge and skills of NECTEC about technologies of Wireless Communication System.<br>3. Increase of Local trainers who have capacities for training and system operation.<br>4. Enhancement of skills and knowledge of Field Trial Testing.<br>5. Proposal and Recommendation made to NTC about proposed RWCS Model.<br>6. Satisfaction of model Users in Model site.  | 1-1. 'The Study Report of RWCS' (Draft)<br>2-1. Interview Survey to NECTEC personnel, Japanese Experts, other actors<br>2-2. Evaluation Study Report of Trial Testing<br>3. The number of local trainers developed<br>4-1. Guideline for Field Trial Testing of Wireless Communication System<br>4-2. Monitoring report of Field Trial Testing<br>4-3. Interview Survey to NECTEC personnel, Japanese Experts, other actors<br>5. Proposal to NTC on Rural Wireless Communication Model<br>6. The result of Impact Survey (report) | NTC establishes the standards of Wireless Communication System                             |
| [Outputs]<br>1. Rural wireless communication model has been developed by NECTEC<br><br>2. IT Curriculum aimed to vitalize the rural areas will be developed by NECTEC in collaboration with local schools in the Kingdom of Thailand. | 1-1. Implementation of Trend Surveys of Wireless Communication technologies at Model site.<br>1-2. Knowledge and Skills acquired by the Trainees who participated to the Technical Training.<br>1-3. The design of Rural Wireless Community System Model and its parameter identified.<br>1-4. The Discussions held about feasibility and its usefulness of use of Applications developed among relative organizations.<br><br>2-1. Quality of IT Curriculum developed by NECTEC<br>2-2. Number of Users<br>2-3. Contents developed by the users of IT Curriculum | 1-1. Survey Report<br>1-2. Technical Training Report, Interview Surveys with Trainees<br>1-3. 'The Study Report of Rural Wireless Communication Network Development' (Draft), Interview Survey with developers, Japanese Experts, and other actors.<br>1-4. Meeting Records<br><br>2-1. IT Curriculum Developed, Users Satisfactory Survey<br>2-2. Interview Survey with NECTEC<br>2-3. Contents developed, Interview Survey with NECTEC and users (developer)   | Personnel of NECTEC who were trained thru the Project continue to work at NECTEC           |

| [Activities]   | [inputs]   |   |  |
|--|--|---|--|
|  | 【Thailand Side】  | 【Japan Side】  |  |
| <p><b>1. Activities for Output1.</b></p> <p>1-1. To carry out the survey of wireless communication technologies trend at model site.</p> <p>1-2. To design and implement the wireless communication system at the model site.</p> <p>1-3.</p> <p>1-4.</p> <p>1-5. supervision,</p> <p>1-6. To conduct the “On the Job Training (OJT)” for NECTEC’s personnel in the field of site planning and system design of WiMAX (Worldwide Interoperability for Microwave Access) and other training courses in Japan.</p> <p>1-7. To test and measure the performance of wireless communication system including applications running (e.g. Internet access, voice over IP, video conferencing, e-Learning, and e-Community).</p> <p>1-8. To examine and analyze the results of testing of wireless communication system and propose an evaluation study report including impact survey about socio-economic status.</p> <p>1-9. To hold the workshop to share the information about wireless communication system trial test with participants from relevant organizations, such as National Telecommunications Commission (hereinafter referred to as “NTC”), Universities, Institute, etc.</p> <p>1-10. To identify and recommend the technical regulations to relevant authorities to be applied for rural wireless communication system.</p> <p>1-11. To draft ‘The Study Report of Rural Wireless Communication System Development’.</p> <p>1-12. To propose the developed rural wireless communication system model to NTC.</p> <p><b>2. Activities for Output2.</b></p> <p>2-1. To discuss with local school teachers and local authorities of Mae Hong Sorn Province to develop the IT curriculums.</p> <p>2-2. To collaborate with local school teachers for creating the sample contents for e-Learning.</p> <p>2-3. To conduct the Training of Trainers to counterpart from Mae Hong Sorn Province.</p> <p>2-4. To conduct the training to local school teachers. (by the trained Trainers)</p> <p>2-5. To conduct the impact survey about the use of contents of the said IT curriculum.</p> <p>2-6. To share the lessons learned from the Project with other related organizations, and promote the applications of the developed IT curriculums in other areas in the Kingdom of Thailand.</p> | <p>(1) Human Resources (Counterparts personnel)</p> <ol style="list-style-type: none"> <li>1) Project Director(NECTEC)</li> <li>2) Project Manager(NECTEC)</li> <li>3) WiFi/WiMAX Research Members(NECTEC)</li> <li>4) Technical Staff(NECTEC)</li> <li>5) Other necessary project staff from NECTEC</li> <li>6) School Teachers as Trainer from Mae Hong Sorn Province</li> </ol> <p>(2) Facilities</p> <ul style="list-style-type: none"> <li>- Office for Japanese Experts(including telephone line and internet facility)</li> <li>- Other necessary facility for project activities</li> </ul> <p>(3) Budget for Project Activities</p> <ul style="list-style-type: none"> <li>- Cost for Field Trial Testing</li> <li>- Domestic Training of NECTEC personnel</li> </ul> | <p>(1) Human Resources(Japanese experts)</p> <ol style="list-style-type: none"> <li>1) Japanese Experts as Chief Advisor: One person</li> <li>2) Other Japanese Experts for: System Design<br/>Site Planning<br/>Contents Development for e-Learning</li> </ol> <p>(2) Equipment and material</p> <ul style="list-style-type: none"> <li>Equipment and material for Trial Test(Including installation cost)</li> <li>Software for WiMAX Site Planning</li> </ul> <p>(3) Other necessary cost for Project Activities</p> <ul style="list-style-type: none"> <li>- Counterparts Training in Japan</li> <li>- Other</li> </ul> | <p>Unforeseen natural calamity or disaster by forced major which affects the Field Trial Test does not occur.</p> <p>Personnel of NECTEC who were trained thru the Project continue to work at NECTEC.</p> <hr/> <p>[Pre-conditions]</p> <p>Frequency allocation, which is required for the Trial Test, was allocated.</p> <p>The procurement of Equipment needed for the Trial Test is available.</p> |



## Project Design Matrix (PDM)

Version 2.0

Date of formulation: 16 July 2010

Project Title : 'the Project of Human Resource Development through Utilizing the Information Technology for Rural Community Vitalization'

Project Term : 26th Apr 2009 – 26th Jan 2012 (2 years and 9 months) project sites: NECTEC at Science Park in Pathumthani Province, Mae Hong Son Province,

Target group : NECTEC, Schools, Communities, Local Authority in Mae Hong Son Province.

| Narrative Summary  | Objectively verifiable Indicators   | Means for obtaining Indicators   | Important Assumption   |
|--|---|--|--|
| [Super Goal] (Long term goal)<br>Enhancement of accessibility to Information Technologies (IT) in rural areas.   | 1. Expansion of internet access users among general households, schools and local business in rural areas.  | 1-1. NECTEC ICT Indicators<br>1-2. Report of Socio-Economic Survey by National Statistics Office (NSO)   |  |
| [Overall Goal] (Middle term goal)<br>Rural wireless communication system is applied for rural communities' vitalization.   | 1. Provinces introducing the Rural Wireless Communication System.<br>2. Types and scale of users in the provinces introducing the Rural Wireless Communication System.  | 1&2<br>1) Interview Survey to NECTEC, NSTDA and – NTC<br>2) NECTEC ICT Indicator   | The Government of Thailand sustains the current IT policy aiming at community development. |
| [Project Purpose]<br>To strengthen the capability of NECTEC in developing the effective rural wireless communication system in the Kingdom of Thailand.  | 1. Development of the Rural Wireless Communication System Model which was examined by Trial Test.<br>2. Enhancement of knowledge and skills of NECTEC about technologies of Wireless Communication System.<br>3. Increase of Local trainers who have capacities for training and system operation.<br>4. Enhancement of skills and knowledge of Field Trial Testing.<br>5. Proposal and Recommendation made to NTC about proposed RWCS Model.<br>6. Satisfaction of model users in model site.  | 1. 'The Study Report of RWCS' (Draft)<br>2-1. Interview Survey to NECTEC personnel, Japanese Experts, other actors<br>2-2. Evaluation Study Report of Trial Testing<br>3. The number of local trainers developed<br>4-1. Guideline for Field Trial Testing of Wireless Communication System<br>4-2. Monitoring report of Field Trial Testing<br>4-3. Interview Survey to NECTEC personnel, Japanese Experts, other actors<br>5. Proposal to NTC on Rural Wireless Communication Model<br>6. The result of Impact Survey (report)       | NTC establishes the standards of Wireless Communication System                             |
| [Outputs]<br>1. Rural wireless communication model has been developed by NECTEC<br><br>2. Curriculum aimed to vitalize the rural areas will be developed by NECTEC in collaboration with local organizations in the Kingdom of Thailand. | 1-1. Implementation of Trend Surveys of Wireless Communication technologies at Model site.<br>1-2. Knowledge and Skills acquired by the Trainees who participated to the Technical Training.<br>1-3. The design of Rural Wireless Community System Model and its parameter identified.<br>1-4. The Discussions held about feasibility and its usefulness of applications among related organizations.<br><br>2-1. Quality and number of Curriculum developed by NECTEC in collaboration with local organizations<br>2-2. Number of users who use e-Learning applications <sup>3</sup><br>2-3. Quality and number of Contents <sup>4</sup> developed by the users of Curriculum <sup>5</sup> | 1-1. Survey Report<br>1-2. Technical Training Report, Interview Surveys with Trainees<br>1-3. 'The Study Report of Rural Wireless Communication Network Development' (Draft), Interview Survey with developers, Japanese Experts, and other actors.<br>1-4. Meeting Records<br><br>2-1. Curriculum Developed, Users Satisfactory Survey, Number of access to the Curriculum<br>2-2. Impact Survey(Report) with NECTEC<br>2-3. Contents developed, Interview Survey with NECTEC and users (developer), Number of access to the contents | Personnel of NECTEC who were trained thru the Project continue to work at NECTEC           |

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<sup>3</sup> E-Learning Application(s): Existing application(s) (e.g. learning management system (LMS), video conference system etc.) used when conducting e-learning.

<sup>4</sup> Contents: Defined as those materials used as eLearning. It is possible to place several contents in one curriculum. For example, if mathematics composes of "basic math content" and "basic math comprehension test", then it has one curriculum and two contents.

<sup>5</sup> Curriculum: Defined as those subjects which use eLearning, not only at schools but also at governmental authorities, police departments, hospitals, and libraries. For example, "mathematics" and "computer basics" signify curriculum for school, whereas "hospital client service" for hospitals, and "library eBook management" for libraries.

| [Activities]  | [inputs]  |  |  |
|---|---|--|--|
|   | 【Thailand Side】   | 【Japan Side】   |  |
| <p><b>1. Activities for Output1.</b></p> <p>1-1. To carry out the survey of wireless communication technologies trend at model site.</p> <p>1-2. To design and implement the wireless communication system at the model site.</p> <p>1-3. To conduct/support WiMAX equipment procurement and to conduct the On the Job Training (OJT) for installation (e.g. tower construction, construction supervision and acceptance).</p> <p>1-4. To conduct the “On the Job Training (OJT)” for NECTEC’s personnel in the field of site planning and system design of WiMAX (Worldwide Interoperability for Microwave Access) and other training courses in Japan.</p> <p>1-5. To conduct training to the targeted local users using sample equipment.</p> <p>1-6. To test and measure the performance of wireless communication system including applications running (e.g. internet access, voice over IP, video conferencing, e-Learning, and e-Community).</p> <p>1-7. To examine and analyze the results of testing of wireless communication system and propose an evaluation study report including impact survey about socio-economic status.</p> <p>1-8. To hold seminar to share the information about wireless communication system trial test with participants from relevant organizations, such as National Telecommunications Commission (hereinafter referred to as “NTC”), Universities, Institute, etc.</p> <p>1-9. To identify and recommend the technical regulations to relevant authorities to be applied for rural wireless communication system.</p> <p>1-10. To draft ‘The Study Report of Rural Wireless Communication System Development’.</p> <p>1-11. To propose the developed rural wireless communication system model to NTC.</p> <p><b>2. Activities for Output2.</b></p> <p>2-1. To discuss with local school teachers and local authorities (e.g. governments, hospitals, police departments, libraries etc.) of Mae Hong Son Province to develop the curriculums.</p> <p>2-2. To collaborate with targeted local users for creating the sample contents for e-Learning.</p> <p>2-3. To conduct training for local instructors in Mae Hong Son Province.</p> <p>2-4. To facilitate training for local users by local instructors</p> <p>2-5. To conduct the impact survey about the use of contents of the said curriculum.</p> <p>2-6. To share the lessons learned from the Project with other related organizations, and promote the applications of the developed curriculums in other areas in the Kingdom of Thailand.</p> | <p>(1) Human Resources (Counterparts personnel)</p> <ol style="list-style-type: none"> <li>1) Project Director(NECTEC)</li> <li>2) Project Manager(NECTEC)</li> <li>3) WiFi/WiMAX Research Members(NECTEC)</li> <li>4) Technical Staff(NECTEC)</li> <li>5) Other necessary project staff from NECTEC</li> <li>6) School Teachers as Trainer from Mae Hong Son Province</li> </ol> <p>(2) Facilities</p> <ul style="list-style-type: none"> <li>- Office for Japanese Experts(including telephone line and internet facility)</li> <li>- Other necessary facility for project activities</li> </ul> <p>(3) Budget for Project Activities</p> <ul style="list-style-type: none"> <li>- Cost for Field Trial Testing</li> <li>- Domestic Training of NECTEC personnel</li> </ul> | <p>(1) Human Resources (Japanese experts)</p> <ol style="list-style-type: none"> <li>1) Japanese Experts as Chief Advisor: One person</li> <li>2) Other Japanese Experts for: <ul style="list-style-type: none"> <li>System Design</li> <li>Site Planning</li> <li>Contents Development for e-Learning</li> </ul> </li> </ol> <p>(2) Equipment and material</p> <p>Equipment and material for Trial Test(Including installation cost)</p> <p>Software for WiMAX Site Planning</p> <p>(3) Other necessary cost for Project Activities</p> <ul style="list-style-type: none"> <li>- Counterparts Training in Japan</li> <li>- Other</li> </ul> | <p>Unforeseen natural calamity or disaster by forced major which affects the Field Trial Test does not occur.</p> <p>Personnel of NECTEC who were trained thru the Project continue to work at NECTEC.</p> <hr/> <p>[Pre-conditions]</p> <p>Frequency allocation, which is required for the Trial Test, was allocated.</p> <p>The procurement of Equipment needed for the Trial Test is available.</p> |

Word definition

# Project Design Matrix (PDM)

Version 3.0

Date of formulation: 4 January 2012

Project Title : 'the Project of Human Resource Development through Utilizing the Information Technology for Rural Community Vitalization'

Project Term : 26th Apr 2009 – 10th Mar 2012 (2 years and 11 months) project sites: NECTEC at Science Park in Pathumthani Province, Mae Hong Son Province,

Target group : NECTEC, Schools, Communities, Local Authority in Mae Hong Son Province.

| Narrative Summary  | Objectively verifiable Indicators   | Means for obtaining Indicators   | Important Assumption   |
|--|---|--|--|
| [Super Goal] (Long term goal)<br>Enhancement of accessibility to Information Technologies (IT) in rural areas.   | 1. Expansion of internet access users among general households, schools and local business in rural areas.  | 1-1. NECTEC ICT Indicators<br>1-2. Report of Socio-Economic Survey by National Statistics Office (NSO)   |  |
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<sup>6</sup> E-Learning Application(s): Existing application(s) (e.g. learning management system (LMS), video conference system etc.) used when conducting e-learning.

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| [Activities]  | [inputs]  |  |  |
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