

## 2. 主要面談者リスト

### マレーシア側

#### (1) 総理府経済企画庁 (E P U)

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Selangor Darul Ehsan | Director General                                      |
| K. Thillainadarajan  | Principal Asst. Director, External Assistance Section |
| Hidah Misran         | Asst. Director, External Assistance Section           |
| Misran Basir         | Principal Asst. Director, Infrastructure Section      |
| M, Selvarajoo        | Principal Asst. Director, Infrastructure Section      |

#### (2) 公共事業省公共事業総局 (J K R)

|                               |                           |
|-------------------------------|---------------------------|
| Dato' Ir. Hj. Zaini bin Omar  | Director General          |
| Dato' Ir. Dr. Wahid bin Omar  | Deputy Director General 1 |
| Ir. Mat Hussin                | Director of Planning      |
| Ir. Hj. Mohamad Razali Othman | Director of Road          |

##### Road Maintenance Unit

|                         |                                |
|-------------------------|--------------------------------|
| Ir. Joseph Lim Chan San | Senior Superintending Engineer |
| Ir. Kamar bin Kassim    | Senior Assistant Director      |
| Ir. Roslan Majid        | Assist. Director               |
| Lai Khin Ohn            | Assist. Director               |
| Ir. Suhaimi Jamaludin   | Assistant Director             |

##### Road Design Unit

|                              |                                         |
|------------------------------|-----------------------------------------|
| Ir. Dr. Ahmad Nadzri Hussein | Senior Assistant Director, Road Design  |
| Uzir Alimat                  | Assist. Director, Engineering Geologist |

##### Cameron Highlands District Office

|                |                   |
|----------------|-------------------|
| S. Ratnasingam | Senior Technician |
|----------------|-------------------|

##### Sabah State Office

|               |
|---------------|
| Willis Ansoni |
|---------------|

#### (3) 科学技術環境省マレーシア気象局

|                             |                                |
|-----------------------------|--------------------------------|
| Pengarah Khidmat Pengurusan | Director of Management Service |
| Azhar Ishah                 |                                |

(4) 一次産業省鉱物・地質科学局 (JGM)

|                   |                          |
|-------------------|--------------------------|
| S. P. Chen        | Director General         |
| Dr. Saim Suratman | Principal Geologist      |
| Mia Sallehvddn    | Principal Geologist      |
| P. Logaua Hran    | Head of Cooperate Unit   |
| Mohd Nazan Awang  | Selangor State Geologist |

(5) 土地・開発協力省測量地図局

Mohd Sharifludin Adnan

(6) その他

East West Highway 2

|                       |                                           |
|-----------------------|-------------------------------------------|
| Ahamad Tarmizi Ismail | Project Manager, MTD Construction         |
| Zamzan Abdulleh       | MTD Construction                          |
| Azizi Zakaria         | MTD Construction                          |
| Khairuodin            | President Engineer, Terratech Consultants |
| Mohd Asri Sidek       | Terratech Consultants                     |

Fraizer's Hill Road, FD Road 56

|                  |                                            |
|------------------|--------------------------------------------|
| Mohamand Hamedan | Project Manger for Rd 56, MTD Construction |
|------------------|--------------------------------------------|

日本側

(1) 日本大使館

|        |       |
|--------|-------|
| 黒木 雅文  | 公 使   |
| 長谷川 朋弘 | 二等書記官 |

(2) JICA マレーシア事務所

|       |      |
|-------|------|
| 岩波 和俊 | 事務所長 |
| 山村 直史 | 職 員  |

3. 質問書

QUESTIONNAIRE

JICA PREPARATORY STUDY TEAM

FOR

THE STUDY

ON

THE SLOPE DISASTER MANAGEMENT OF FEDERAL HIGHWAYS

IN

MALAYSIA

JULY, 2000

JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA)

Note ;

- Please answer name of the organization in the "I. ORGANIZATIONS CONCERNING THE IMPLEMENTATION OF THE STUDY"
- Please mark ○ for the Data/Item in the "Availability" which is available
- Please mark × for the Data/Item in the "Availability" which is not available

# I. ORGANIZATIONS CONCERNING THE IMPLEMENTATION OF THE STUDY

| ITEM                                                           | DESCRIPTION                                                                                                                     |  |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|
| 1. Agencies which are responsible for the followings:          | For the Federal roads, For the Provincial roads, For the Toll roads                                                             |  |
| (A) Road development planning                                  | Highway Planning Unit, MOW                                                                                                      |  |
| (B) Road construction                                          | Public Works Department, MOW                                                                                                    |  |
| (C) Road improvement/betterment                                | Public Works Department, MOW                                                                                                    |  |
| (D) Road maintenance / management                              | Public Works Department, MOW                                                                                                    |  |
| (E) Road design / investigation                                |                                                                                                                                 |  |
| (F) Road accident / disaster                                   |                                                                                                                                 |  |
| 2. Agencies in charge of and/or concerned with the followings: | Name of Agencies and Departments, Name and position of the responsible persons in charge for the Japanese Study Team to contact |  |
| (A) Permission of aerial photo taking                          | Ministry of Internal Affairs                                                                                                    |  |
| (B) Custody of topographic maps and aerial photos              | Survey Department                                                                                                               |  |
| (C) Area conservation                                          | Department of Environment, MOS                                                                                                  |  |
| (D) Geological data/information                                | Mineral & Geosciences Department                                                                                                |  |
| (E) Inspection on slopes                                       | Public Works Department, MOW                                                                                                    |  |

## II. TECHNICAL DATA / INFORMATION

| ITEM                                       | DESCRIPTION                                            | AVAILABILITY |                         | NAME OF MATERIALS |
|--------------------------------------------|--------------------------------------------------------|--------------|-------------------------|-------------------|
|                                            |                                                        | AVAILABILITY | PLACE OF DATA AVAILABLE |                   |
| 1. Maps to be used for field investigation | (1) Topographic maps covering the Study areas          |              |                         |                   |
|                                            | - A: East -West Highway Scale?[ 1:50,000 ]             | 0            |                         |                   |
|                                            | - B: Simpang Pulai - Lojing Highway Scale?[ 1:50,000 ] | 0            |                         |                   |
|                                            | - C: Gap - Fraser Hill Road Scale?[ 1:50,000 ]         | 0            |                         |                   |
|                                            | - D: Penang Federal Road 6 Scale?[ 1:50,000 ]          | 0            |                         |                   |
|                                            | - E: Bentong - Gua Musang Road Scale?[ 1:50,000 ]      | 0            |                         |                   |
|                                            | - F: Tamparuli - Sandakan Road Scale?[ 1:50,000 ]      | 0            | IKRAM                   |                   |
|                                            | (2) Index map                                          | 0            |                         |                   |
| 2. Availability of aerial photos           | (1) Aerial photos of the Study areas                   |              |                         |                   |
|                                            | - A: East -West Highway Scale?[ ] Year?[ ]             | 0            |                         |                   |
|                                            | - B: Simpang Pulai - Lojing Highway Scale?[ ] Year?[ ] |              |                         |                   |
|                                            | - C: Gap - Fraser Hill Road Scale?[ ] Year?[ ]         | 0            |                         |                   |
|                                            | - D: Penang Federal Road 6 Scale?[ ] Year?[ ]          | 0            |                         |                   |
|                                            | - E: Bentong - Gua Musang Road Scale?[ ] Year?[ ]      | 0            |                         |                   |
|                                            | - F: Tamparuli - Sandakan Road Scale?[ ] Year?[ ]      | 0            |                         |                   |
|                                            | (2) Photo index map                                    |              |                         |                   |
| 3. Geological data                         | (1) Geological maps covering the Study areas           | 0            |                         |                   |
|                                            | (2) Soil distribution maps covering the Study areas    | 0            |                         |                   |
|                                            | (3) Existing report about data/ information such as :  | 0            |                         |                   |
|                                            | - Location of soft ground                              |              |                         |                   |
|                                            | - Results of geological/soil investigation             |              |                         |                   |

| ITEM                                                       | DESCRIPTION                                                       | AVAILABILITY |                           | NAME OF MATERIALS |
|------------------------------------------------------------|-------------------------------------------------------------------|--------------|---------------------------|-------------------|
|                                                            |                                                                   | AVAILABILITY | PLACE OF DATA AVAILABLE   |                   |
| 4. Geodetic data                                           | (1) Triangulation point network                                   | 0            |                           |                   |
|                                                            | (2) Bench-mark network                                            | 0            | Survey Department         |                   |
|                                                            | (3) Points description (Control points, Bench-mark)               | 0            | Survey Department         |                   |
|                                                            | (4) Triangulation point data lists                                | 0            | Survey Department         |                   |
| 5. Meteorological data                                     | (1) Annual, monthly and daily rainfall data                       | 0            | Meteorological Department |                   |
|                                                            | (2) Temperature                                                   | 0            | Meteorological Department |                   |
|                                                            | (3) Others                                                        | 0            | Meteorological Department |                   |
| 6. Hydrological data of rivers                             | (1) River flow data                                               | 0            | Irrigation Department     |                   |
|                                                            | (2) Flood information of rivers                                   | 0            | Irrigation Department     |                   |
|                                                            | (3) Improvement plans for river in the Study areas                | 0            | Irrigation Department     |                   |
| 7. Data/information on related roads<br>in the study areas | (1) Road maps                                                     | 0            | Public Works Department   |                   |
|                                                            | (2) Road inventories (class, length, surface type, etc.)          | 0            | Public Works Department   |                   |
|                                                            | (3) Record of past disaster (flood, slope failure, etc.)          | 0            |                           |                   |
|                                                            | - A: East -West Highway                                           | 0            |                           |                   |
|                                                            | - B: Simpang Pulai - Lojing Highway                               | 0            |                           |                   |
|                                                            | - C: Gap - Fraser Hill Road                                       | 0            |                           |                   |
|                                                            | - D: Penang Federal Road 6                                        | 0            |                           |                   |
|                                                            | - E: Bentong - Gua Musang Road                                    | 0            |                           |                   |
|                                                            | - F: Tamparuli - Sandakan Road                                    | 0            |                           |                   |
| 8. Traffic data on the related roads                       | (1) Traffic volume by vehicle types                               | 0            | Highway Planning Unit     |                   |
|                                                            | (2) Number of registered vehicles                                 | 0            | Highway Planning Unit     |                   |
|                                                            | (3) Record of traffic accidents<br>(type, causes, location, etc.) | 0            | Highway Planning Unit     |                   |

| ITEM                                                                                 | DESCRIPTION                                                          | AVAILABILITY |                         | NAME OF MATERIALS |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------|-------------------------|-------------------|
|                                                                                      |                                                                      | AVAILABILITY | PLACE OF DATA AVAILABLE |                   |
| 9. Specification and standard                                                        | (1) Highway capacity manual                                          | 0            | Highway Planning Unit   |                   |
|                                                                                      | (2) Geometric standard                                               | 0            | Public Works Department |                   |
|                                                                                      | (3) Bridge standard                                                  | 0            | Public Works Department |                   |
|                                                                                      | (4) Pavement standard                                                | 0            | Public Works Department |                   |
|                                                                                      | (5) Environmental quality standard of noise, vibration air and water | 0            | DOE                     |                   |
|                                                                                      | (6) Maintenance manual                                               | 0            | Public Works Department |                   |
|                                                                                      | (7) Flood control manual                                             | 0            | Irrigation Department   |                   |
|                                                                                      | (8) Disaster prevention manual                                       | 0            | Public Works Department |                   |
|                                                                                      | (9) Inspection manual                                                | 0            | Public Works Department |                   |
|                                                                                      | (10) Others                                                          | Depends      |                         |                   |
| 10 Reports/information of the road development projects closely related to the Study | (1) Intersection improvement plan                                    | 0            |                         |                   |
|                                                                                      | (2) Widening plan for major road                                     | 0            |                         |                   |
|                                                                                      | (3) Bridge plan                                                      | 0            |                         |                   |
|                                                                                      | - New construction                                                   | 0            |                         |                   |
|                                                                                      | - Reconstruction                                                     | 0            |                         |                   |
|                                                                                      | (4) The latest progress of above mentioned plans                     | 0            |                         |                   |
| 11 Existing and on-going road development plans and road development projects        | (1) Design, implementation schedule and current project status       | 0            | Public Works Department |                   |
|                                                                                      |                                                                      |              |                         |                   |
| 12 Road related budget                                                               | (1) Road construction budget                                         | 0            | Public Works Department |                   |
|                                                                                      | (2) Road maintenance budget                                          | 0            | Public Works Department |                   |
| 13 Road related cost                                                                 | (1) Construction cost by type of road and location                   | 0            | Public Works Department |                   |
|                                                                                      | (2) Maintenance cost by type of road and location                    | 0            | Public Works Department |                   |

### III. SOCIO-ECONOMIC DATA/INFORMATION

| ITEM                                      | DESCRIPTION                                                     | AVAILABILITY |                         | NAME OF MATERIALS |
|-------------------------------------------|-----------------------------------------------------------------|--------------|-------------------------|-------------------|
|                                           |                                                                 | AVAILABILITY | PLACE OF DATA AVAILABLE |                   |
| 1. Latest socio-economic indices          | (1) GNP and GDP                                                 | O            |                         |                   |
|                                           | (2) Population                                                  | O            |                         |                   |
|                                           | (3) Past and future population growth rate                      |              |                         |                   |
|                                           | (4) Industrial, agricultural and mining products (by main sort) |              |                         |                   |
|                                           | (5) Foreign trade (quantity and value)                          |              |                         |                   |
|                                           | (6) Tourism development plans                                   |              |                         |                   |
|                                           | (7) Others                                                      |              |                         |                   |
| 2. Existing development plans and reports | (1) Economic development plans                                  | O            |                         |                   |
|                                           | (2) Transportation development plans                            | O            |                         |                   |
|                                           | (3) Industrial development plans                                | O            |                         |                   |
|                                           | (4) Mining and agricultural development plans                   | O            |                         |                   |
|                                           | (5) Forecast of socio-economic indicators                       | O            |                         |                   |

#### IV. COMPUTER SYSTEM

[illegible]

# V. Disaster prevention / Information

| ITEM                                                                      | DESCRIPTION | AVAILABILITY |                         | NAME OF MATERIALS |
|---------------------------------------------------------------------------|-------------|--------------|-------------------------|-------------------|
|                                                                           |             | AVAILABILITY | PLACE OF DATA AVAILABLE |                   |
| 1. Road design manual / standard                                          |             |              |                         |                   |
| 2. Classification of slope stability                                      |             |              |                         |                   |
| 3. Evaluation method / criterion of slope stability                       |             |              |                         |                   |
| 4. Basic concept of road protection facilities and measures               |             |              |                         |                   |
| 5. Reports / research results on mechanism and condition of slope failure |             |              |                         |                   |

# VI. ENVIRONMENT

| ITEM                                                       | DESCRIPTION                                                                                            | AVAILABILITY |                         | NAME OF MATERIALS |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|
|                                                            |                                                                                                        | AVAILABILITY | PLACE OF DATA AVAILABLE |                   |
| 1. Legislation                                             | (1) Law/guidelines on environmental impact assessment                                                  | 0            |                         |                   |
|                                                            | (2) Environmental quality standards                                                                    | 0            |                         |                   |
|                                                            | (3) Regulation on deforestation                                                                        | 0            |                         |                   |
| 2. International conventions on environmental conservation | (1) Bilateral convention                                                                               | 0            |                         |                   |
|                                                            | (2) Multilateral convention                                                                            | 0            |                         |                   |
|                                                            |                                                                                                        |              |                         |                   |
| 3. Present situation of the project area                   | (1) Socio-economic environment                                                                         |              |                         |                   |
|                                                            | - Main industry or source of income of the residents                                                   | 0            |                         |                   |
|                                                            | - Location of ethnic groups and/or ancestral domain claims                                             | 0            |                         |                   |
|                                                            | - Cultural property or archaeological site                                                             | 0            |                         |                   |
|                                                            | - Existence of common land                                                                             | 0            |                         |                   |
|                                                            | (2) Natural environment                                                                                |              |                         |                   |
|                                                            | - Land use and vegetation map                                                                          | 0            |                         |                   |
|                                                            | - History of natural disaster, landslide earthquake and flood                                          | 0            |                         |                   |
|                                                            | - Areas affected by soil erosion                                                                       | 0            |                         |                   |
|                                                            | - Change of water level of rivers and lakes in recent years                                            | 0            |                         |                   |
|                                                            | - Location of environmentally vulnerable areas such as wetland                                         | 0            |                         |                   |
|                                                            | - Species of valuable animals and plants living in the project area                                    | 0            |                         |                   |
|                                                            | - Location of particular areas officially protected such as national parks, wildlife sanctuaries, etc. | 0            |                         |                   |
|                                                            | - Distribution of important landscape or scenery for tourism                                           | 0            |                         |                   |
|                                                            |                                                                                                        |              |                         |                   |

[illegible]

# VII. OTHER INFORMATION

| ITEM                                                                              | DESCRIPTION                                                                                                                             | AVAILABILITY |                         | NAME OF MATERIALS |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|
|                                                                                   |                                                                                                                                         | AVAILABILITY | PLACE OF DATA AVAILABLE |                   |
| 1. Future budgetary plan for the implementation of the Project                    |                                                                                                                                         |              |                         |                   |
| 2. Any specific restrictions related to the Study                                 |                                                                                                                                         |              |                         |                   |
| 3. Availability of the Government's equipment/instruments/apparatus for the Study | (1) List up Equipment/instruments/apparatus which are available for the Study by the following category with the following information; |              |                         |                   |
|                                                                                   | a) Category                                                                                                                             |              |                         |                   |
|                                                                                   | - Instrument for geodetic survey                                                                                                        |              |                         |                   |
|                                                                                   | - Apparatus for geological/soil investigation                                                                                           |              |                         |                   |
|                                                                                   | - Apparatus for traffic survey                                                                                                          |              |                         |                   |
|                                                                                   | - Computer                                                                                                                              |              |                         |                   |
|                                                                                   | - Services vehicle                                                                                                                      |              |                         |                   |
|                                                                                   | - Others                                                                                                                                |              |                         |                   |
|                                                                                   | b) Information                                                                                                                          |              |                         |                   |
|                                                                                   | - Name                                                                                                                                  |              |                         |                   |
|                                                                                   | - Type (or model/maker)                                                                                                                 |              |                         |                   |
|                                                                                   | - Characteristics (or capacity)                                                                                                         |              |                         |                   |
|                                                                                   | - Number of units                                                                                                                       |              |                         |                   |
|                                                                                   | - Condition                                                                                                                             |              |                         |                   |
| 4 List of registered private consultants with achievements                        | (1) Geological survey                                                                                                                   |              |                         |                   |
|                                                                                   | (2) Hydrological survey                                                                                                                 |              |                         |                   |
|                                                                                   | (3) Topographical survey                                                                                                                |              |                         |                   |
|                                                                                   | (4) Environmental study and environmental impact assessment (EIA)                                                                       |              |                         |                   |
|                                                                                   | (5) Computer system development                                                                                                         |              |                         |                   |

#### 4. 収集資料リスト

1/2

| 資料名                                                                                                                        | ページ<br>数 | 発行元                                 | 入手先                                      | オリジナル/<br>コピー |
|----------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------|------------------------------------------|---------------|
| 地 図                                                                                                                        |          |                                     |                                          |               |
| Map of Federal And Major State Roads<br>Peninsular Malaysia (1:750,000) :1999                                              | 1        | JKR                                 | JKR                                      | オリジナル         |
| Geological Map of Peninsular Malaysia<br>(1:500,000): 1985                                                                 | 2        | Geological<br>Survey of<br>Malaysia | Minerals and<br>Geoscience<br>Department | オリジナル         |
| Geological Map of Sabah (1:500,000)                                                                                        | 1        | Geological<br>Survey of<br>Malaysia | Minerals and<br>Geoscience<br>Department | オリジナル         |
| 道路一般情報                                                                                                                     |          |                                     |                                          |               |
| MALAYSIAN ROADS General<br>Information 1999                                                                                | 63       | JKR                                 | JKR                                      | オリジナル         |
| 基準・ガイドライン                                                                                                                  |          |                                     |                                          |               |
| A GUIDE ON GEOMETRIC DESIGN<br>OF ROADS :1986                                                                              | 107      | JKR                                 | JKR                                      | オリジナル         |
| THE ENVIRONMENTAL IMPACT<br>ASSESSMENT OF HIGHWAY/ROAD<br>PROJECTS :1995                                                   | 132      | JKR                                 | JKR                                      | オリジナル         |
| STANDARD DRAWINGS FOR ROAD<br>CONSTRUCTION :1989                                                                           | 79       | JKR                                 | JKR                                      | オリジナル         |
| 斜面管理関連                                                                                                                     |          |                                     |                                          |               |
| GEOGUIDE 1 TROPICAL<br>WEATHERED IN-SITU -MATERIALS<br>OCCURRENCE AND GENERAL<br>NATURE- :1996                             | 28       | JKR                                 | JKR                                      | オリジナル         |
| GEOGUIDE 2 TROPICAL<br>WEATHERED IN-SITU -SITE<br>INVESTIGATION- :1996                                                     | 70       | JKR                                 | JKR                                      | オリジナル         |
| GEOGUIDE 3 TROPICAL<br>WEATHERED IN-SITU<br>-LABORATORY TESTING-:1996                                                      | 35       | JKR                                 | JKR                                      | オリジナル         |
| GEOGUIDE 4 TROPICAL<br>WEATHERED IN-SITU<br>-GEOTECHNICAL CHARACTER OF<br>PROFILES- :1996                                  | 65       | JKR                                 | JKR                                      | オリジナル         |
| EASE-WEST HIGHWAY LONG<br>TERM PREVENTIVE MEASURES<br>AND STABILITY STUDY :<br>SMSOPERATIO MANUAL (JUN<br>1996)            |          | JKR                                 | JKR                                      | コピー           |
| EASE-WEST HIGHWAY LONG<br>TERM PREVENTIVE MEASURES<br>AND STABILITY STUDY : FINAL<br>RISK AMALYSIS REPORT (August<br>1996) |          | JKR                                 | JKR                                      | コピー           |
| JKR Slope Priority System<br>(List of Ranking Result)                                                                      | 47       | JKR                                 | JKR                                      | コピー           |

| 資料名                                                                 | ページ<br>数 | 発行元                                      | 入手先                                      | オリジナル/<br>コピー |
|---------------------------------------------------------------------|----------|------------------------------------------|------------------------------------------|---------------|
| 気象関連                                                                |          |                                          |                                          |               |
| ANNUAL SUMMARY OF<br>METEOROLOGICAL<br>OBSERVATIONS 1998            | 218      | Malaysian<br>Meteorological<br>Service   | Malaysian<br>Meteorological<br>Service   | オリジナル         |
| MONTHLY ABSTRACT OF<br>METEOROLOGICAL<br>OBSERVATIONS JANUARY, 1999 | 43       |                                          |                                          | オリジナル         |
| MONTHLY ABSTRACT OF<br>METEOROLOGICAL<br>OBSERVATIONS MAY, 1999     | 43       |                                          |                                          | オリジナル         |
| 1994 CLIMATE SUMMARY                                                | 18       |                                          |                                          | オリジナル         |
| 1995 CLIMATE SUMMARY                                                | 21       |                                          |                                          | オリジナル         |
| 1997 CLIMATE SUMMARY                                                | 21       |                                          |                                          | オリジナル         |
| 1998 CLIMATE SUMMARY                                                | 22       |                                          |                                          | オリジナル         |
| 気象観測所関連資料                                                           | 24       |                                          |                                          | コピー           |
| その他                                                                 |          |                                          |                                          |               |
| Non-Restricted Maps and Digital Data<br>Catalogue                   | 44       | Department of<br>Survey and<br>Mapping   | Department of<br>Survey and<br>Mapping   | オリジナル         |
| Price List of Report                                                | 9        | Minerals and<br>Geoscience<br>Department | Minerals and<br>Geoscience<br>Department | オリジナル         |
|                                                                     |          |                                          |                                          |               |

## 5. ローカルコンサルタントリスト

### 地質調査関連

|   | 会社名                        | 住所                                                                                                | TEL, FAX                             |
|---|----------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|
| 1 | SSP GEOTECHNICS SDN. BHD.  | Level 6,Wisma SSP, 1, Jalan SR 8/3, Serdang Raya Seksyen 8, 43300 Seri Kembangan,Selangor         | TEL: 03-89433366<br>FAX: 03-89439037 |
| 2 | ARUP JURURUNDING SDN. BHD. | Nos. 25-28, Jalan Ara SD 7/3B Bandar Sri Damansara 52200 Kuala Lumpur                             | TEL: 03-6332223<br>FAX: 03-6332227   |
| 3 | GUE & PARTNERS SDN> BHD.   | 1-2(2nd Flr.) Jalan 8/146, The Metro Centre, Bandor Tasik Selatan, 57000 Kuala Lumpur             | TEL: 03-9595396<br>FAX: 03-9595869   |
| 4 | T & T CONSULT SDN. BHD.    | 55-3 Jalan SS 23/15, Taman Sea, 474000 Petaling Jaya, Selangor                                    | TEL: 03- 7044198<br>FAX: 03-7045299  |
| 5 | PERUNDING ZNA SDN. BHD.    | B-3A-6, Megan Phileo Promenade, 189 Jalan Tun Razak 50400 Kuala Lumpur                            | TEL: 03-21626300<br>FAX: 03-21627300 |
| 6 | JW GEOTECHNICAL CONSULTANT | 3rd flr., Lot 9, Lorong Margosa, Jalan Kolam, Luyang Phasw 8, 88300 Kota Kinabalu, Sabah Malaysia | TEL: 088-249918<br>FAX: 088-249917   |

### 測量関係

|   | 会社名                                  | 住所                                                                              | TEL, FAX                           |
|---|--------------------------------------|---------------------------------------------------------------------------------|------------------------------------|
| 1 | JURUKUR PERUNDING SERVICES SDN. BHD. | 116 Jalan Radin Anum 1 Bandar Baru Seri Petaling 57000 Kuala Lumpur             | TEL: 03-9585488<br>FAX: 03-9582786 |
| 2 | GEOMATICS DATASERVICES SDN. BHD.     | 109 Jalan Aminuddin Baki Taman Tun Dr. Ismail 60000 Kuala Lumpur.               | TEL: 03-7171296<br>FAX: 03-7175411 |
| 3 | JURUKUR MUTIARA                      | 11-3,Jalan Jelatek 2 Jelatek Business Park 54200 Kuala Lumpur                   | TEL: 03-4560834<br>FAX: 03-4561328 |
| 4 | GROUND DATA SYSTEMS SDN.BHD.         | No4,Crystal Plaza,Level 2/Lobby 2, Jalan 51A/223, 46000 Petaling Jaya, Selangor | TEL: 03-7579414<br>FAX: 03-7559246 |

### 防災システム関係

|   | 会社名                              | 住所                                                                  | TEL,FAX                              |
|---|----------------------------------|---------------------------------------------------------------------|--------------------------------------|
| 1 | GEOMATIKA TECHNOLOGY Sdn.Bhd.    | 11-3,Jalan Jelatek 2 Jelatek Business Park 54200 Kuala Lumpur       | TEL: 03-4560834<br>FAX: 03-4561328   |
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| 3 | SSM Advanced Technology Sdn.Bhd. | 25 Jalan 3/27B, Seksyen 10, Wangsa Maju 53300 Setapak, Kuala Lumpur | TEL: 03-41434997<br>FAX: 03-41438808 |