Appendix-4

Manual for Computing Frequency Scores

- 1. Outline of computing procedure
- 2. Preparation of input data from PIS data
- 3. Preliminary calculation
- 4. Category correction and re-calculation
- 5. Correcting category score
- 6. How to improve prediction accuracy

1. Outline of the computing procedure

The computing procedure of the factor scores indicated by "Sheet 2" is explained in this appendix. The multiple regression analysis with dummy parameters is used for the calculation of the factor scores. SPSS (Statistical Package for Social Science) was used as the statistical analysis software. A computing procedure is explained using calculations by SPSS. If another statistical analysis software is used, the technique is changed accordingly. In addition, the Soil Collapse (SC) type is chosen as an example of the calculation. When other disaster types are concerned, calculation must be undertaken by transposing the items and categories to those of that disaster type.

The outline of the computing procedure is indicated below.

- 1) Preparation of input data from PIS data
- 2) Preliminary calculation
- 3) Category correction and re-calculation

When a category score is not calculated properly, or the prediction accuracy is too low, refer to the following section. "4) How to improve the prediction accuracy".

2. Preparation of input data from PIS data

The example of input data layout is shown in Table A4.1. The results of a survey for every site are entered in each line, and the abbreviation character of a column is indicated by "Sheet 2".

For example, "Na" is "Number of RCDs (nos.)", and "a" is "Length of survey site". "k_a" is "Erosion" and "k_b" is "Piping hole" in the item of "Erosion on the slope". The integers entered in the cells from "a" to "j" show the ranged/classified factor category for each factor item, which corresponds to the results of the PIS. The integer number is given in an order from the leftmost factor category (L >= 300m is "1", 300m > L >= 200m "2", 200m > L >= 100m "3", and 100m > L "4").

In the cells from "k_a" to "l_d", 1 or 0 is entered, depending upon whether the "Erosion on the slope" or the "Deformation/Collapse" corresponds to the defined factor category or not, respectively. For example, on a certain slope, if "Erosion on the Slope" resulted not from "Piping hole" but from "Erosion", 1 is entered in "k_a", and 0 in "k_b".

"FRCDs" in the rightmost column are interpreted as potential FRCDs without countermeasure effects. That is to say, they should be argued in conjunction with both FRCDa on the slope without countermeasure and FRCDbc on the slope with countermeasure. Analysis is done by making FRCDs the objective variables.

Table A4.1 An Example of Input Data

| RoadName | StationKm | StationM | Side | Na | Ya | FRCDa | Nbc | Ybc | FRCDbc | Yd | а | b | c | de | e 1 | g | h | i | j | k_a | k_b | l_a | l_b | l_c | l_d | FRCD |
|---------------------------|-----------|----------|-------------------------|----|-------|-------|-----|-----|--------|----|---------|-----|---|----|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|----------|------|
| Lagawa-Banawe Road | 305 | 190 | Left side of road | 3 | 10 | 0 | 0 | | | 1 | 4 | 4 | 1 | 1 | 2 | 2 1 | 1 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Lagawa-Banawe Road | 305 | 450 | Left side of road | 10 | 10 | 0.7 | 0 | | | 1 | 3 | 4 | 1 | 1 | 2 | 2 1 | 1 3 | 3 3 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.7 |
| Lagawa-Banawe Road | 305 | 654 | Left side of road | 3 | 10 | 0 | 0 | | | 1 | 4 | 4 | 1 | 1 | 2 | 1 1 | 1 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Lagawa-Banawe Road | 307 | 801 | Left side of road | 3 | 10 | 0.3 | 0 | | | | 2 | 4 | 1 | 1 | 4 | 2 3 | 3 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.3 |
| Lagawa-Banawe Road | 308 | 158 | Left side of road | 3 | 10 | 0 | 0 | | | | 3 | 4 | 1 | 1 | 4 | 2 3 | 3 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Lagawa-Banawe Road | 308 | 440 | Left side of road | 0 | 10 | 0.6 | 0 | | | | 2 | 4 | 1 | 1 | 2 | 1 1 | 1 2 | 2 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.6 |
| Lagawa-Banawe Road | 308 | 960 | Left side of road | 2 | 10 | 0 | 0 | | | | 4 | 4 | 1 | 2 | 2 | 2 2 | 2 3 | 3 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lagawa-Banawe Road | 309 | 284 | Left side of road | 3 | 10 | 0.1 | 0 | | | | 3 | 4 | 1 | 1 | 3 | 2 1 | | 3 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| Lagawa-Banawe Road | 309 | 550 | Left side of road | 2 | 10 | 0 | 0 | | | | 2 | 4 | 1 | 2 | 2 | 2 2 | 2 3 | 3 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lagawa-Banawe Road | 310 | 182 | Left side of road | 1 | 10 | 0.2 | 0 | | | | 4 | 4 | 1 | 2 | 2 | 2 2 | 2 2 | 2 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.2 |
| Lagawa-Banawe Road | 310 | 519 | Left side of road | 1 | 10 | 0.1 | 0 | | | | 4 | 4 | 1 | 1 | 3 | 1 1 | 1 2 | 2 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| Lagawa-Banawe Road | 313 | 41 | Left side of road | 0 | 10 | 0.2 | 0 | | | | 3 | 3 | 1 | 1 | 2 | 2 2 | 2 3 | 3 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt F | 315 | 20 | Right side of road | 3 | 10 | 1.2 | 0 | 10 | | 1 | 1 | 4 | 3 | 1 | 4 | 3 3 | 3 3 | 3 4 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1.2 |
| Nueva Vizcaya-Ifugao-Mt F | 316 | 50 | Left side of road | 0 | 10 | 0.1 | 0 | 10 | | 0 | 1 | 4 | 3 | 3 | 2 | 2 1 | 1 2 | 2 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt F | 305 | 40 | Left side of road | 2 | 10 | 0.1 | 0 | | | 1 | 4 | 4 | 1 | 2 | 1 | 2 1 | | 3 3 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt F | 305 | 140 | Left side of road | 1 | 10 | 0.1 | 0 | 10 | | 1 | 4 | 4 | 1 | 2 | 2 | 2 1 | | 3 3 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 318 | 50 | Right side of road | 0 | 10 | 0.1 | 0 | 10 | | 0 | 3 | 4 | 3 | 1 | 4 | 3 1 | 4 | 1 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 318 | 670 | Right side of road | 0 | 10 | 0 | 0 | 10 | | 0 | 4 | 4 | 4 | 1 | 3 | 2 1 | 1 3 | 3 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt F | 318 | 760 | Right side of road | 0 | 10 | 0 | 0 | 10 | | | 4 | 4 | 4 | 2 | 2 | 3 1 | 1 3 | 3 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 318 | 850 | Right side of road | 0 | 10 | 0 | 2 | 10 | 0.1 | 1 | 3 | 4 | 3 | 2 | 4 | 3 1 | 1 3 | 3 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 319 | 35 | Right side of road | 2 | 10 | 0 | 0 | 10 | | 1 | 3 | 3 | 3 | 2 | 2 | 3 1 | 1 3 | 3 5 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 319 | 850 | Right side of road | 1 | 10 | 0 | 0 | 10 | | 1 | 4 | 4 | 3 | 2 | 2 | 2 1 | 1 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 324 | 480 | Left side of road | 0 | 10 | 0 | 0 | 10 | | 1 | 1 | 4 | 3 | 2 | 3 | 3 1 | 4 | 1 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 326 | 110 | Left side of road | 3 | 10 | 0 | 0 | 10 | | 0 | 3 | 3 | 2 | 1 | 4 | 3 1 | 1 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 326 | 340 | Left side of road | 1 | 10 | 0.1 | 0 | 10 | | 1 | 3 | 3 | 3 | 1 | 2 | 2 1 | 1 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 327 | 100 | Left side of road | 0 | 10 | 0 | 0 | 10 | | 0 | 4 | 4 | 3 | 3 | 3 | 2 1 | 2 | 1 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt F | 327 | 160 | Right side of road | 0 | 10 | 0 | 2 | 10 | 0.3 | 0 | 3 | 4 | 2 | 1 | 3 | 1 2 | 2 1 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.3 |
| Nueva Vizcaya-Ifugao-Mt F | 327 | 380 | Right side of road | 2 | 10 | 0.2 | 0 | 10 | | 1 | 3 | 2 | 3 | 1 | 4 | 3 1 | 4 | 1 5 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt P | 327 | 480 | Right side of road | 2 | 10 | 0 | 0 | 10 | | 1 | 4 | 4 | 2 | 1 | 4 | 1 1 | | 3 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 327 | 770 | Left side of road | 0 | 10 | 0 | 1 | 10 | 0.1 | 0 | 1 | 3 | 4 | 2 | 4 | 3 3 | 3 4 | 1 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 328 | 180 | Right side of road | 2 | 10 | 0.2 | 0 | 10 | | 1 | 3 | 3 | 3 | 1 | 4 | 3 2 | 2 4 | 1 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt P | 328 | 560 | Left side of road | 3 | 10 | 0.1 | 0 | 10 | | 1 | 3 | 1 | 3 | 1 | 4 | 3 1 | 1 3 | 3 3 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 329 | 240 | Left side of road | 1 | 10 | 0 | 0 | 10 | | 1 | 3 | 3 | 3 | 1 | 4 | 2 2 | 2 3 | 3 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 329 | 260 | Right side of road | 2 | 10 | 0.1 | 0 | 10 | | 1 | 4 | 3 | 2 | 1 | 4 | 2 1 | 1 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt P | 329 | 450 | Left side of road | 1 | 10 | 0.4 | 0 | 10 | | 1 | 1 | 3 | 3 | 2 | 4 | 3 1 | 1 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.4 |
| Nueva Vizcaya-Ifugao-Mt P | 330 | 18 | Left side of road | 2 | 10 | 0.5 | 0 | 10 | | 0 | 4 | 2 | 2 | 1 | 4 | 1 1 | 1 3 | 3 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0.5 |
| Nueva Vizcaya-Ifugao-Mt F | 330 | 150 | Left side of road | 2 | 10 | 0.3 | 0 | 10 | | 0 | 1 | 2 | 2 | 1 | 4 | 1 1 | 1 3 | 3 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0.3 |
| Nueva Vizcaya-Ifugao-Mt P | 330 | 655 | Left side of road | 1 | 10 | 0 | 0 | 10 | | 0 | 2 | 2 | 2 | 3 | 4 | 1 1 | 1 3 | 3 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt P | 331 | 770 | Left side of road | 2 | 10 | 1 | 0 | 10 | | 1 | 4 | 1 | 1 | 2 | 2 | 1 1 | 1 2 | 2 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| Nueva Vizcaya-Ifugao-Mt P | 331 | 840 | Left side of road | 4 | 10 | 2 | 0 | 10 | | 1 | 1 | 1 | 1 | 2 | 2 | 1 1 | 1 2 | 2 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 2 |
| Nueva Vizcaya-Ifugao-Mt P | 332 | 370 | Left side of road | 2 | 10 | 0.2 | 0 | 10 | | 0 | 3 | 1 | 1 | 2 | 2 | 1 1 | 1 3 | 3 3 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt P | 332 | 360 | Left side of road | 0 | 10 | 0.2 | 0 | 10 | | 0 | 2 | 3 | 2 | 1 | 4 | 1 1 | 1 3 | 3 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt F | 332 | 700 | Left side of road | 0 | 10 | 0 | 0 | 10 | | 0 | 2 | 3 | 2 | 3 | 4 | 1 1 | 1 3 | 3 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nueva Vizcaya-Ifugao-Mt F | 319 | 925 | Right side of road | 2 | 10 | 0.2 | 0 | 10 | | 1 | 2 | 4 | 3 | 1 | 2 | 3 1 | 1 3 | 3 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt F | 320 | 130 | Right side of road | 1 | 10 | 0.2 | 0 | 10 | | 1 | 3 | 3 | 3 | 2 | 2 | 3 1 | | 3 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0.2 |
| Nueva Vizcaya-Ifugao-Mt F | 320 | 580 | Right side of road | 1 | 10 | 0.1 | 0 | 10 | | 0 | 1 | 3 | 3 | 2 | 1 | 3 1 | 2 | 1 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| Nueva Vizcaya-Ifugao-Mt F | 322 | 50 | Right side of road | 0 | 10 | 0 | 0 | 10 | | 1 | 3 | 2 | 3 | 2 | 1 | 3 2 | 2 4 | 1 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N.L | | 140 | million 2012 2 2 22 2 1 | 4 | 1 4 0 | 0.4 | | 4.0 | | 4 | <u></u> | - 0 | 0 | 0 | | n l 4 | | | 1 0 | | | - 4 | | 0 | <u>ہ</u> | 0.1 |

The Study on Risk Management for Sediment-Related Disaster on Selected National Highways in the Republic of the Philippines

3. Preliminary calculation

The multiple regression analysis with dummy parameters by SPSS is carried out based on the data in Table A4.1. The FRCD variable is objective and explanatory variables are those from "a" to "1 d". In SPSS, the normalized category scores, multiple correlation coefficient, mean of all samples etc. are computed (Table A4.2). The terms which should be verified are the relation between categories and category scores for each item, and the multiple correlation coefficient.



Figure A4.1 Calculation Flow

The multiple regression analysis with dummy parameters calculates the factor scores so as to minimize the residual sum of squares between the observation value (FRCD) and the prediction value (FRCDp). There are some packages of common statistical analysis software such as SPSS, SAS, etc. And this analysis is undertaken using a charged option of SPSS (Statistical Package for Social Science).

The relation between categories and category scores is whether the magnitude relation of category scores and the general degree of category influence to FRCD are rational. For example, in "a" of Table 2, the category scores are 0.133, 0.016, -0.019, and -0.029. This shows that the degree of influence to FRCD becomes smaller as the slope length becomes smaller. Therefore, it shows that the appropriate category is set by the item "a". In the case of "b", the category scores are -0.014, 0.008, -0.034 and 0.031. The slope height with the largest degree of influence to FRCD is the category where H < 30m, subsequently followed by those with 90m > H >= 60m, H >= 90m, and 60m > H >=30m. It does not follow that the degree of influence to FRCD becomes smaller as the slope height becomes smaller. It means that the appropriate categorization is not set up by the item "b", the Height of mountain side slope. Thus, for some of the items from c to 1_d the appropriate categorization has been unsuccessful. The following section explains the processing of the items that resulted in the inappropriate categorization.

The multiple correlation coefficient which is another verification term takes the values from 0 to 1, meaning that the prediction accuracy becomes higher as the coefficient approaches 1. When the prediction accuracy is obviously low, refer to "6. How to improve prediction accuracy".

| Multiple | 0.77 | | | | | | | | | |
|-------------|----------|-----------|----------|------------|---|--------|-----|-----------|----------|------------|
| coefficient | 0.77 | | | | | | | | | |
| Mean of all | | | | | | | | | | |
| samples | 0.187 | | | | | | | | | |
| | | | | | | | | | | |
| Category | Category | Frequency | Mean of | Normalized | 1 | Catego | ory | Frequency | Mean of | Normalized |
| score etc. | Number | | FRCDa or | category | | Numb | er | | FRCDa or | category |
| | | | FRCDbc | score | | | | | FRCDbc | score |
| | А | | | | | h | | | | |
| | 1 | 23 | 0.404 | 0.133 | | | 1 | 24 | 0.304 | 0.053 |
| | 2 | 22 | 0.255 | 0.016 | | | 2 | 38 | 0.189 | -0.002 |
| | 3 | 68 | 0.146 | -0.019 | | | 3 | 103 | 0.182 | -0.010 |
| | 4 | 74 | 0.136 | -0.029 | | | 4 | 22 | 0.077 | -0.006 |
| | В | | | | | i | | | | |
| | 1 | 13 | 0.454 | -0.014 | | | 1 | 17 | 0.300 | 0.057 |
| | 2 | 25 | 0.180 | 0.008 | | | 2 | 92 | 0.187 | -0.003 |
| | 3 | 71 | 0.156 | -0.034 | | | 3 | 22 | 0.232 | 0.037 |
| | 4 | 78 | 0.172 | 0.031 | | | 4 | 3 | 0.500 | 0.328 |
| | С | | | | | | 5 | 53 | 0.113 | -0.047 |
| | 1 | 56 | 0.341 | 0.073 | | j | | | | |
| | 2 | 72 | 0.126 | -0.027 | | | 1 | 20 | 0.655 | 0.302 |
| | 3 | 47 | 0.117 | -0.025 | | | 2 | 167 | 0.131 | -0.036 |
| | 4 | 12 | 0.100 | -0.083 | | k_a | | | | |
| | D | | | | | | 0 | 76 | 0.116 | -0.033 |
| | 1 | 47 | 0.249 | 0.076 | | | 1 | 111 | 0.235 | 0.022 |
| | 2 | 81 | 0.173 | -0.004 | | k_b | | | | |
| | 3 | 55 | 0.149 | -0.054 | | | 0 | 185 | 0.172 | -0.009 |
| | 4 | 4 | 0.250 | -0.084 | | | 1 | 2 | 1.500 | 0.793 |
| | Е | | | | | l_a | | | | |
| | 1 | 13 | 0.085 | -0.108 | | | 0 | 59 | 0.144 | -0.034 |
| | 2 | 55 | 0.247 | 0.043 | | | 1 | 128 | 0.206 | 0.016 |
| | 3 | 25 | 0.056 | -0.108 | | 1_b | | | | |
| | 4 | 94 | 0.200 | 0.018 | | | 0 | 177 | 0.163 | -0.013 |
| | F | | | | | | 1 | 10 | 0.600 | 0.233 |
| | 1 | 19 | 0.347 | 0.019 | | 1_c | | | | |
| | 2 | 92 | 0.161 | -0.030 | | | 0 | 178 | 0.160 | -0.001 |
| | 3 | 76 | 0.178 | 0.031 | | | 1 | 9 | 0.711 | 0.027 |
| | G | | | | | 1_d | | | | |
| | 1 | 167 | 0.190 | 0.007 | | | 0 | 179 | 0.174 | -0.003 |
| | 2 | 9 | 0.100 | -0.019 | | | 1 | 8 | 0.475 | 0.077 |
| | 3 | 11 | 0.200 | -0.092 | 1 | | | | | |

Table A4.2 Result of Preliminary Calculation

4. Category Correction and Re-calculation

In the foregoing section, it was made clear that items possibly produce some inappropriate categorization. For these items, it is necessary to correct categorization so that the order of the magnitude of the category scores, i.e. the general degree of influence of the item to FRCD, becomes logical and rational. If it is not necessary to correct categorization, you should move on to the following section "5. Correcting category scores".

In the case of "b", the category scores are -0.014, 0.008, -0.034 and 0.031. Obviously the relation between the magnitudes of the category scores and the degree of influence of the slope height to FRCD is irrational. The reasons for this are that the number of samples of a category "1" is not enough, or there are many samples of large FRCD on a small slope (category "4"). In such a case, the category setup is corrected by unifying categories "1" and "2", and "3" and "4". If similar needs arise for the other items "c" through "1_d", the category setup should be similarly corrected (Table A4.3).

After the category correction, the multiple regression analysis with dummy parameters by SPSS is re-calculated. After re-calculating, it is checked whether the order of the magnitudes of category scores and the general degree of category influence to FRCD are rational. Category correction and re-calculation are repeated until the degree of category influence becomes reasonable. Table A4.4 shows the finalized category scores after category correction.

If some items are not improved even after the category correction, refer to "6. How to improve prediction accuracy ". If improvement is not achieved at all, delete the item.

| Category Number | Reset Category | Category Number | Reset Category |
|--------------------|-------------------|--------------------|-------------------|
| Number | Number | riamber | Number |
| а | | h | |
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | |
| 4 | 4 | 4 | 3 |
| b | | i | |
| 1 | 1 | 1 | 1 |
| 2 | 1 | 2 | |
| 3 | | 3 | 2 |
| 4 | 2 | 4 | |
| С | | 5 | 3 |
| 1 | 1 | j | |
| 2 | | 1 | 1 |
| 3 | 2 | 2 | 2 |
| 4 | 3 | k_a | |
| d | | 0 | 0 |
| 1 | 1 | 1 | 1 |
| 2 | 2 | k_b | _ |
| 3 | | 0 | 0 |
| 4 | J | 1 | 1 |
| e | | l_a | |
| 1 | 4 | 0 | 0 |
| 2 | ' | 1 | 1 |
| 3 | 2 | l_b | |
| 4 | 2 | 0 | 0 |
| f | | 1 | 1 |
| 1 | 1 | <u>L</u> c | |
| 2 | 2 | 0 | 0 |
| 3 | 2 | 1 | 1 |
| g | | l_d | |
| 1 | 1 | 0 | 0 |
| 2 | | 1 | 1 |
| 3 | 2 | | |

Table A4.3 Category Number

| Multiple correlation | 0.75 | | | | | | | | | |
|----------------------|------------|-----------|----------|------------|---|----------|-----|-----------|----------|------------|
| coefficient | | | | | | | | | | |
| Mean of all | 0.187 | | | | | | | | | |
| samples | | | | | | | | | | |
| <i></i> | <u>a</u> : | T | | N 12 1 | 1 | <u> </u> | | | | NY 11 1 |
| Category | Category | Frequency | Mean of | Normalized | | Catego | ory | Frequency | Mean of | Normalized |
| score etc. | Number | | FRCDa or | category | | Numb | er | | FRCDa or | category |
| | - | | FREDDC | score | - | 1- | | | FREDDe | score |
| | a 1 | 22 | 0.404 | 0.140 | - | n | 1 | 24 | 0.204 | 0.024 |
| | 1 | 23 | 0.404 | 0.149 | - | | 1 | 24 | 0.304 | 0.034 |
| | 2 | 22 | 0.255 | 0.030 | - | | 2 | 38 | 0.189 | 0.006 |
| | 3 | 68 | 0.146 | -0.016 | _ | | 3 | 125 | 0.163 | -0.008 |
| | 4 | /4 | 0.136 | -0.040 | - | | 4 | | | |
| | В | | Г | [| - | 1 | | 1.7 | 0.000 | 0.047 |
| | 1 | 38 | 0.274 | 0.008 | | | 1 | 17 | 0.300 | 0.047 |
| | 2 | | | | - | | 2 | | 0.000 | 0.002 |
| | 3 | 149 | 0.164 | -0.002 | | | 3 | 117 | 0.203 | 0.003 |
| | 4 | | | | _ | | 4 | | | |
| | с | | | | _ | | 5 | 53 | 0.113 | -0.021 |
| | 1 | 56 | 0.341 | 0.080 | _ | J | | | | |
| | 2 | 119 | 0.123 | -0.031 | | | 1 | 20 | 0.655 | 0.285 |
| | 3 | | | | _ | | 2 | 167 | 0.131 | -0.034 |
| | 4 | 12 | 0.100 | -0.065 | _ | k_a | | | | 1 |
| | d | | 1 | 1 | _ | | 0 | 76 | 0.116 | -0.044 |
| | 1 | 47 | 0.249 | 0.077 | _ | | 1 | 111 | 0.235 | 0.030 |
| | 2 | 81 | 0.173 | -0.005 | _ | k_b | | | | 1 |
| | 3 | 59 | 0.156 | -0.055 | | | 0 | 185 | 0.172 | -0.007 |
| | 4 | | | | _ | | 1 | 2 | 1.500 | 0.674 |
| | e | | | 1 | _ | 1_a | | | | 1 |
| | 1 | 68 | 0.216 | 0.017 | | | 0 | 59 | 0.144 | -0.037 |
| | 2 | | | | | | 1 | 128 | 0.206 | 0.017 |
| | 3 | 119 | 0 170 | -0.010 | | 1_b | | | | r |
| | 4 | | 0.170 | 0.010 | _ | | 0 | 177 | 0.163 | -0.013 |
| | f | | n | n | | | 1 | 10 | 0.600 | 0.227 |
| | 1 | 19 | 0.347 | 0.039 | _ | 1_c | | | | |
| | 2 | 168 | 0.168 | -0.005 | | | 0 | 178 | 0.160 | -0.006 |
| | 3 | 100 | 0.100 | 0.005 | | | 1 | 9 | 0.711 | 0.119 |
| | g | | I | n | | 1_d | | | | n |
| | 1 | 167 | 0.190 | 0.002 | 1 | | 0 | 179 | 0.174 | -0.003 |
| | 2 | 20 | 0.155 | -0.017 | | | 1 | 8 | 0.475 | 0.063 |
| | 3 | 20 | 0.155 | -0.017 | | | | | | |

Table A4.4 Result of Re-calculation

5. Correcting category scores

After calculating category scores, they are changed into the corrected scores. A formula is shown below. The computed category scores are shown in Table A4.5.

CS = NCS + Mean / NI

Where CS : Corrected category score, NCS : Normalized category score, Mean : Mean of all samples (=0.187), and NI : Number of items (=16).

| Category | Normalized | Corrected category | | Category | Normalized | Corrected category |
|----------|--|--------------------|----------|----------|----------------|--------------------|
| Number | category score | score | | Number | category score | score |
| a | je j | | h | | | |
| 1 | 0.149 | 0.160 | | 1 | 0.034 | 0.046 |
| 2 | 0.030 | 0.041 | | 2 | 0.006 | 0.017 |
| 3 | -0.016 | -0.005 | | 3 | 0.000 | 0.002 |
| 4 | -0.040 | -0.028 | | 4 | -0.008 | 0.003 |
| b | | | i | | | |
| 1 | 0.008 | 0.010 | | 1 | 0.047 | 0.058 |
| 2 | 0.008 | 0.019 | | 2 | | |
| 3 | 0.002 | 0.010 | | 3 | 0.003 | 0.014 |
| 4 | -0.002 | 0.010 | | 4 | | |
| c | | | | 5 | -0.021 | -0.010 |
| 1 | 0.080 | 0.092 | j | | | - |
| 2 | -0.031 | -0.019 | | 1 | 0.285 | 0.297 |
| 3 | 0.051 | 0.017 | | 2 | -0.034 | -0.023 |
| 4 | -0.065 | -0.054 | k | a | | |
| d | | | | 1 | -0.044 | 0.000 |
| 1 | 0.077 | 0.089 | | 2 | 0.030 | 0.072 |
| 2 | -0.005 | 0.007 | k | b | | 1 |
| 3 | -0.055 | -0.043 | | 1 | -0.007 | 0.000 |
| 4 | | | | 2 | 0.674 | 0.645 |
| e | | | 1_; | a | | |
| 1 | 0.017 | 0.028 | | 1 | -0.037 | 0.000 |
| 2 | | | | 2 | 0.017 | 0.051 |
| 3 | -0.010 | 0.002 | 1 | b | | |
| 4 | | | | 1 | -0.013 | 0.000 |
| f | | 0.054 | | 2 | 0.227 | 0.229 |
| 1 | 0.039 | 0.051 | <u> </u> | с | 0.000 | 0.000 |
| 2 | -0.005 | 0.007 | | 1 | -0.006 | 0.000 |
| 3 | | | | 2 | 0.119 | 0.120 |
| g . | 0.000 | 0.014 | | a | 0.000 | 0.000 |
| 1 | 0.002 | 0.014 | | 1 | -0.003 | 0.000 |
| 2 | -0.017 | -0.005 | | 2 | 0.063 | 0.062 |
| 3 | | | | | | |

| Table A4 5 Normalized | Category | Score and | Original | Category Score |
|------------------------|----------|-----------|----------|----------------|
| TADIC AT. J NUL MAILLU | Category | Score and | Original | Callgory Score |

6. How to improve prediction accuracy

This section discusses some methods for improving the prediction accuracy and the reliability of analysis resulting from the multiple regression analysis with dummy parameters.

1) Check of multicolinearity

When a high correlation exists between some explanatory variables, it is needed to drop one of the variables in order to improve prediction accuracy. The Cramer's coefficient of association is used when calculating the correlation of the qualitative explanatory variables. SPSS can calculate this.

When a correlation between explanatory variables is high (0.7 or more), explanatory variables with a lower partial correlation coefficient should be deleted. Partial correlation coefficients are computed by the multiple regression analysis with dummy parameters of SPSS.

2) Check of the order of category average and category scores

When the averages of objective variables, i.e. FRCDs in this case, for each category are arranged in a descending order, some part of the order of category scores may not be compatible. By unifying or deleting some categories, the reliability of analysis result improves.

3) Check of the order of range and multiple correlation coefficient

When the ranges and the partial correlation coefficients calculated for each item are arranged in an ascending order, these orders may not be compatible. In this case, re-calculation should be undertaken after unifying or eliminating some categories with few samples. The reliability of analysis result improves by adjusting these item orders. By the way, the range is the difference between the minimum category score and the

maximum category score of an item. It can be said that the influence of an item is so large that the range of the item becomes large. The ranges and the partial correlation coefficients are computed by the multiple regression analysis with dummy parameters of SPSS.

4) Check of observed value and predicted value

The sample with extremely large difference between the observed value and the predicted value should be deleted from the analysis.

Appendix-5

Road Slope Management System (RSMS)

Manual Volume 1

Application Operation Manual

Ver 1.2 June 2007

The Department of Public Works and Highways

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| elected National Hig | anagement for Sediment-Related Disaster on the show the Republic of the Philippines R | isk Management Planning |
|----------------------|--|-------------------------|
| TABLE OF | CONTENTS | |
| SECTION 1 | NTRODUCTION | A5-4 |
| | | |
| 1.1 Use | er Category | A5-5 |
| 1.2 Roa | ad Slope Management System Application Modules | A5-5 |
| 1.3 Det | finition of Terms | A5-6 |
| SECTION 2 G | BETTING STARTED | A5-9 |
| 2.1 Wir | ndow (Dialog box) | A5-9 |
| 2.2 Star | rting and Quitting the Road Slope Management System(R | SMS) A5-10 |
| SECTION 3 N | IAVIGATING THROUGH THE SYSTEM | A5-15 |
| 3.1 RSI | MS Application Window | A5-15 |
| 3.2 Titl | e Bar | A5-15 |
| 3.3 Mer | nu | A5-15 |
| SECTION 4 D | DATA MANIPULATION MODULE | A5-16 |
| 4.1 Add | d Record | A5-16 |
| 4.2 Imp | port Data | A5-18 |
| 4.3 Mo | dify Data | A5-19 |
| 4.4 Ren | nove/Un-remove Data (Hide/Un-hide data) | A5-22 |
| 4.5 Del | ete Data | A5-26 |
| SECTION 5 D | DATA BROWSER MODULE and QUERY | A5-29 |
| 5.1 To 1 | Export a Report | A5-29 |
| 5.2 Usi | ng the Query | A5-31 |
| 5.3 Exp | porting List of All Records to an Excel File | A5-38 |
| SECTION 6 A | DMINISTRATIVE OPERATION MODULE | A5-39 |
| 6.1 To | Change Password | A5-39 |
| 6.2 To 1 | Reset Password | A5-40 |
| 6.3 To . | Add User | A5-41 |
| 6.4 To 1 | Delete User | A5-42 |
| 6.5 To | Grant or Revoke Privilege | A5-43 |
| 6.6 To | Shutdown the Database Management Application | A5-44 |
| 6.7 To 3 | Start the Database Management Application | A5-46 |
| 6.8 To 1 | Backup the Database | A5-46 |
| 6.9 To I | Restore the Database | A5-47 |
| 6.10 To | Change Formula | A5-48 |
| SECTION 7 H | ELP MODULE | A5-50 |

RSMS

RSMS (Road Slope Management System) is an application software program, which was developed in the Study named "The Study on Risk Management for Sediment-related Disaster on Selected National Highways in The Republic of The Philippines. This Study was undertaken by the Japan International Cooperation Agency (JICA) Study Team, The Department of Public Works and Highways (DPWH) Counterpart Team, in cooperation with the DPWH and the JICA Philippine Office.

SECTION 1 INTRODUCTION

This section provides the users with an overview of the Road Slope Management System (RSMS).

RSMS is designed to automate the file maintenance of inventory surveys and inventory sheet reports. The objectives of the system are as follows:

$\sqrt{}$ Improved service distribution

The system provides information through electronic access to the data in the network to those deemed in need of such information.

$\sqrt{}$ Improved security and integrity of all vital documents

The system ensures the security and integrity of all documents by limiting access of the system to authorized users.

√ Improved management

When all the data are properly entered into the database of RSMS, all information can be easily retrieved at any given client computer within the network. Reports can be easily created.

$\sqrt{}$ Improved report generation

Related reports like the Excel sheet are easily generated by the system.

The purpose of this manual is to assist the authorized users of the Road Slope Management System in optimizing their efficiency through proper usage of the system.

The manual presents to reader the steps he/she has to undertake in the performance of his/her duties while utilizing the Road Slope Management System. The manual is arranged by modules for easier and faster reference.

1.1 User Category

The users of RSMS are classified into the following four categories. All of the application functions are contained in this manual. However, not all users can access all the functions. The menu items that cannot be accessed by a user are colored grey and are disabled (cannot to be used).

Read-Only End Users

These users can only browse the data stored in the database. They can export the retrieved data or an integrated list into Excel files. They can change their own passwords by themselves in order to keep the security level high.

Data Encoders

These users are regarded as the operators for data input into the database. In addition to the operations allowed to Read-only End Users described above, Data Encoders can input data manually from the keyboard or from Excel files. They can modify the data which is already stored in the database.

Application User Coordinators

These users undertake the administrative jobs in data handling and user management. In addition to the operations allowed to Data Encoders described above, Application User Coordinators can remove (hide) the data. Hidden data cannot be browsed, as if they were deleted. But the data still exists in the RSMS application system. Application User Coordinators can also un-remove(un-hide) the removed data.

They can reset another user's password in case the user forgets his/her password. Furthermore, Application User Coordinators can register a new RSMS user or delete a user.

Application Support Administrators

These users support the application system, and can perform all the operations of the system. In addition to the operations allowed to Application User Coordinators described above, Application Support Administrators can delete data. They can grant or revoke the privilege of other users, which means that they can change the category (Read-only End Users, etc) of other users. They can backup and restore the database. The shutdown and restart of the database management system are usually performed at the time of the database backup. Finally, they can change the formula used in the Indicative Feasibility Assessment (IFA) calculation.

1.2 Road Slope Management System Application Modules

The following modules define the RSMS's functions.

Data Manipulation Module

This module allows authorized users to manipulate data. The module includes add, modify, remove/un-remove, delete and import of records. The available functions for a user are determined by the user's category.

| Application Support Administrator | : | Add, Import, Modify, Remove/Un- |
|-----------------------------------|---|---------------------------------|
| | | Remove, Delete |

| The Study on Risk Management for Sediment-Related Disaster on Selected National Highways in the Republic of the Philippines | Final Report Guide I Risk Management Planning | | | | |
|--|--|--|--|--|--|
| Application User Coordinators | Add, Import, Modify, Remove/Un- | | | | |
| | Remove, Delete | | | | |
| Data Encoders | Add, Import, Modify, Remove/Un- | | | | |
| | Remove | | | | |
| Read-Only End Users | Nothing | | | | |

Data Browser Module

This module allows all users to view the data and export to Excel files.

Administrative Operation Module

This module allows authorized users to change and reset password. The authorized users can also register and delete users; grant privileges to users, or revoke privileges; start and shutdown the database management system, and backup the database. The available functions for a user are determined by the user's category.

| Application Support Administrator | Reset other user's password. Add/Delete users Grant/Revoke privilege Shutdown/Start/Backup/Restore database Change formula |
|--------------------------------------|--|
| Application User Coordinators | Change own password Reset other user's password. Add/Delete users |
| Data Encoders Read-Only End Users | Change own password Change own password |

1.3 Definition of Terms

A brief list of terms and their explanations are provided here.

| FRCDp | Potential Frequency of Road Closure Disaster |
|-------------------------------|--|
| FRCDa | Actual Frequency of Road Closure Disaster |
| IFA | Indicative Feasibility Assessment |
| RCD | Road Closure Disaster |
| Database Management System | RSMS adopts a commercial application software called the Relational Database Management System (RDBMS) in order to store the inventory survey information. The database table, which is the main component of RDBMS, is similar to an Excel sheet, but with more sophisticated functions. |

| The Study on Risk Management for Sedimen Selected National Highways in the Republic | t-Related Disaster on of the Philippines | Final Report Guide I Risk Management Planning |
|--|---|---|
| Worksheet | A single spreadsheet that conta of data. A worksheet is treated | ins rows and columns like a database table. |
| Record | In computer science, composition combine simple objects or a complex ones. Composted objitems, members, and attribute composition is called a structure usually varies across language named so that each member the others. | bosition is a way to data types into more jects are called fields, butes. The resultant re or record. The term es. Members are often is distinguished from |
| Remove/un-remove (Hide/Un-hide data) | 'Remove (Hide)' means that the user, but is not deleted Instead, the data is marked with record then would not be a participation of the second data can be the For general users, removed as deleted records (see be removed records can be recover | he data is hidden from I from the database. h a Remove Flag. The rt of the data retrieval un-removed (un-hide). records are the same clow). However, the ered. |
| Delete | 'Delete' means the deletion with a Remove Flag. Delete recovered. | of a record marked ed records cannot be |
| Add /Import data | "Add data" or "Add record" inputs new data into the manually via specific forms of computer (PC) monitor. The u such as the name of the invent using the keyboard, or selects of the disaster from a men computer monitor. | means that the user RSMS database viewed on a personal ser inputs information ory survey's inspector items such as the type nu displayed on the |
| | On the other hand, "Import dat means the user inputs a new of The user only needs to specify | ta" or "Import record" data via an Excel file. the Excel filename. |
| Username/Password | To use RSMS, a 'Username' assigned to a user. They are s therefore, are different from Windows. A password can co characters and is case sensitive | and a 'Password' are pecific to RSMS, and those of Microsoft ontain up to eight (8) |

| The Study on Risk Management for Sedimer Selected National Highways in the Republic | nt-Related Disaster on of the PhilippinesFinal Report Risk Management Planning |
|---|--|
| End User(General User)/Administrator | General users are divided into two categories in RSMS. Read-Only End Users can only browse the stored data. Data Encoders can create and modify the data. On the other hand, the administrator can manipulate the data, and add/delete users, and he/she takes care of the application system. |
| Log in / Log on | Here, 'Login' or 'Logon' means starting the RSMS application software by inputting the username and password. These words are also used to start to operate the computer system (ex. UNIX). |
| Start(up) / shutdown database management system Or, simply referred to "Start(up)/shutdown database" | This is not the startup/shutdown of the server PC on which RSMS is installed. This means the startup/shutdown of the database management system. Without starting the database management system, the user cannot use RSMS. After the power of the server PC is switched on, and the OS started up, the database management system automatically starts up. |
| database | Before shutting down the PC, all users should exit from the RSMS. It is not necessary to shut down the database management system explicitly. |
| | However, to backup/restore the database, the database management system should be shut down. In this case, the manual shutdown via the RSMS menu is necessary. After the backup/restore is completed, the database management system should be started up again so that the users can use RSMS. This startup is also performed via the RSMS menu. |

SECTION 2 GETTING STARTED (all users)

This section provides the user with basic information needed to familiarize him/her with the system. This also shows the user how to start and quit the RSMS.

Command Button

Help

A Command button is used to perform an operation. Some examples are OK, Cancel and Help buttons.

| Combo | Box |
|-------|-----|
| 2006 | * |

A Combo Box displays a list of choices. If there are more choices than can fit in the box, scroll bars are provided so you can move through the list.

Text Box

A Textbox is a data entry box used to acquire input from the user. When the textbox is disabled (data cannot be typed in it). It has to be activated before it can operate. Generally, 'Activation' is performed by clicking inside the Textbox.

2.1 Window (Dialog box)

A **window** is the user's interface to the application or system. This is used for retrieving information from the user's mouse or keyboard commands. A **dialog box** is used with the same meanings as a window.

Application Window

An Application Window contains a running application as shown in the example below.

| 2 FRCDp | 3 Sketches | 4 Countermeasures | 5 IFA | 6 Disaster | Countermea |
|--|---|---------------------------|----------|------------|------------------|
| | | I statement | | 1 2.000000 | <u>I Manadem</u> |
| | | | | | |
| | The second surface of | Del. | Ť | | |
| Survey Point ID : | | | <u> </u> | | |
| Region : | Cordillera Admini | strative Region | | | |
| Responsible DEO : | Abra District Engi | neering Office | | . | |
| Road Name : | Abra-Ilocos Norte | Rd | | • | |
| Road Section ID : | S00588LZ | <u> </u> | I | | |
| Station : | From : | 0 km 0 m | Until : | 0 km 0 m | |
| Lenght of survey · | 0 | | | | |
| | | | | | |
| Side of Survey : | Left side of road | | Ĩ. | | |
| Side of Survey : | Left side of road | <u>×</u> | I | ¥ | |
| Side of Survey : Disaster Type : | Left side of road | e | Ĩ | | |
| Side of Survey : Disaster Type : Name of Inspector : | Left side of road | • | I | 1 | |
| Side of Survey : Disaster Type : Name of Inspector : Date of Survey : | Left side of road Soil Slope Collaps | e an. 2005 | 1 | | |
| Side of Survey : Disaster Type : Name of Inspector : Date of Survey : Checked By : | Left side of road Soil Slope Collaps | e ar. 2005. | | × | |
| Side of Survey : Disaster Type : Name of Inspector : Date of Survey : Checked By : Checked Date : | Left side of road Soil Slope Collaps | e an. 2005 an. 2006 | | E | |

Message Box

A Message Box is used to display information, warnings indicating why a requested task cannot be accomplished, or messages. Icons represent the nature of the message as in the example shown below.



2.2 Starting and Quitting the Road Slope Management System (RSMS)

The system will only be accessible by giving the correct username and password in the Login window shown in the figure below. The user's username and password are used to identify authorized system users, thereby ensuring system security.

To log in to RSMS

 To start the RSMS application system, click the Start button of the monitor display of the PC where the RSMS application is installed. The Start button is usually located at the left-bottom corner as shown in the following figure. Next, click the All Programs button. There is an item RSMS in the pop-up menu. Move the mouse cursor onto that RSMS. Furthermore, item RSMS is displayed. Click this item. The figure shows an example display of a PC where Microsoft Windows XP Home Edition is installed.



2. Type your username and password in the login information window, then press the **Enter key** of the keyboard. Click **Cancel** to cancel logging in, and this window will disappear.

| [LOGIN]- | | |
|----------------------|---|---|
| Username | 1 | 1 |
| Password | | |
| Username Password | | |

The password is a security measure used to restrict access to RSMS to unauthorized users. A password can contain up to 8 characters and is case sensitive.

3. Incorrect Password or Username will prompt this message box.



If you forget the correct password, click the **Forgot Password** command button. The window shown below will be displayed.

In this window, you only have to type your username, and then select one question from the menu in the combo box. The question will ask for one of the three:

- 1. The name of the user's pet
- 2. The user's favorite color
- 3. The maiden name of the user's mother

When you were registered as a new user in the RSMS, you were asked to select one question from the above three, and you specified the answer. RSMS stores this information.

Select the correct question, input the correct answer, and then click on the **Get Password** button. Your correct password will be displayed.

| Selected National Highways in the Republi | c of the Philippines | Risk Management Planning |
|---|----------------------|--------------------------|
| Forgot Password | | |
| Forgot Password New Username Secret Question : Answer : | Get Password | |
| Password | | |
| | Close | |

4. After entering the correct information in the Login window, the **Main Menu** will appear containing menus that will be used in the system. Once you log in, your user profile is automatically recognized by the system, assigning you to your role and granting your access rights accorded to that particular role. For a user with an administrator role, all items of the menu can be accessed. For users with other roles, some menu items are colored grey and cannot be accessed.

| [Main M | enul |
|-------------|---------------------------|
| L'indin (ri | enuj |
| | Data Manipulation |
| | Data Browser |
| - E | Administrative Operations |
| | Exit |

To quit from RSMS

When the user needs to exit the RSMS, he/she can simply go to the **Main Menu** and click the **Exit** command button.

| [Mai | in Menu J |
|-------|---------------------------|
| 1 | Data Manipulation |
| 14 | Data Browser |
| 14 | Administrative Operations |
| , | Exit |

The Login window is displayed again. Click Cancel.

| IS - User Log | yin |
|---------------|---|
| [LOGIN] | |
| Username | ř – – – – – – – – – – – – – – – – – – – |
| Password | |

Section 3 NAVIGATING THROUGH THE SYSTEM (all users)

This section provides the basic information needed to familiarize the user with the Road Slope Management System (RSMS).

3.1 The RSMS application Window

After establishing correct entries in the Login window, the user is brought to the RSMS application Main Menu Window, which has the following components:

| - |
|---|

3.2 Title Bar

A Title Bar is the horizontal bar at the top of the RSMS application window that contains the title of the application system.

3.3 Menu

The Menu of the RSMS application window is where the following menus are located: **Data Manipulation, Data Browser, Administrative Operations** and **Exit.** Most menus (windows) of RSMS are organized in a tree-like structure. The **Main Menu** window shown above is the top menu, which is a root of the tree. In most menus (windows), there is an **Upper Menu** button, which will bring you back to the previous window.

SECTION 4 DATA MANIPULATION MODULE (Privileged user and Data Encoder)

| [Data Manipulation] | |
|-----------------------|--|
| Add new data | |
| | |
| Import data | |
| 🧾 Modify data | |
| Remove/Un-remove data | |
| Delete data | |

This module contains menus for adding, importing, modifying, removing/un-removing and deleting records. Only authorized user can use this module. You can access the Data Manipulation Module by clicking the Data Manipulation button in the Main Menu Window.

4.1 Add Record (Privileged user and Data Encoder)

This allows the authorized user to add a new record to the database manually. You can also print the record before saving it to the database.

To add new record

1. From the Data manipulation window, click **Add new data** button to display the **Add new** dialog box.

| Data | Manipulation] |
|------|-----------------------|
| | |
| 1 | Add new data |
| – | Import data |
| - | Modify data |
| | Remove/Un-remove data |
| | Delete data |

The Study on Risk Management for Sediment-Related Disaster on Selected National Highways in the Republic of the Philippines

2. In the **Add new** dialog box, enter the record's information and click the **Save** button to save the record to the database. Otherwise, click the **Upper Menu** button to go back to Data manipulation window.

| Gennral | (FRCC) | Datallod Turver | Coursemanures | TF-6 | Deed |
|---------|----------------------|---------------------------------|-----------------|--|-------|
| | | | | | |
| | Survey Point ID : | 2 - Walnumb | | | |
| | No goos r | Contillana Administrative Segle | n.) | * | |
| | Responsible ISEM (| Abre Dient Esphering Office | | 2 | |
| | Read transe : | More Carvettas 82 | | * | |
| | Read 3D + | WR61182 | | | |
| | Read Section ID : | 30050842 | Kastom Length 1 | in the second seco | |
| | Statum : | Film (1941 2 | 2 m unit 103441 | - | 35 27 |
| | Longhi of survey : | 8 | | | |
| | hide of harvey (| saft sile of mail | 2 | | |
| | Disaster Type : | Asiad the | | 2 | |
| | tiame of Inspector : | Potta | | | |
| | Date of Survey | 11/74/2002/ 3 | 8 | | |
| | thecked by : | intent - | | | |
| | Date Checked | 17242287 2 | EL. | | |
| | | CIVIT-CONTRACTOR | | | |

4.2 Import Data (Privileged user and Data Encoder)

This allows an authorized user to import an Excel file into the database.

To import Excel files

1. From the Data Manipulation window, click the **Import data button** to display the **Import Data** dialog box.

| MS - Da | ta Manipulation |
|---------|-----------------------|
| [Data] | 1anipulation] |
| | Add new data |
| × | Import data |
| | Modify data |
| | Remove/Un-remove data |
| | Delete data |

2. In the **Import data** dialog box, click the **Select file** button to select an Excel file you want to import. Note that the **Import Inventory Sheet** button is checked as the figure shown below.

| -[Import dat | a] | na 16 | | |
|---------------|------------------|-------|----------|-----|
| O Impor | t Inventory Shee | | | |
| O Impor | CREIA Data | | | |
| | | | Select f | ile |

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3. After selecting an Excel file, click the **Save** button to import the data in the Excel file into the database.

| Import Invento | ry Sheet | |
|------------------------------------|-----------------------|-----------|
| O Import RBIA D | ata | |
| \\Nk2\server for p | roject files in nk Se | lect file |

4.3 Modify Data (Privileged user and Data Encoder)

This allows an authorized user to modify or edit the information for an existing record.

To modify data

1. From the Data Manipulation window, click the **Modify data** button to display the Modify Data dialog box.

| RSMS – Road Slope Management System | |
|-------------------------------------|--|
| RSMS - Data Manipulation | |
| [Data Manipulation] | |
| Add new data | |
| Import data | |
| Modify data | |
| Remove/Un-remove data | |
| | |
| Upper Menu Help | |

2. In the Modify Data dialog box, choose the record you want to modify by clicking the **Next record** button to show the next record, or the **Previous record** button to show the previous record. You can also query the record you want to modify by clicking the **Exec query** button to display the choices of applicable queries. A detailed explanation about query functions is given in Section 5.

| General | FRCDp | Detailed Survey Counter | measures | IFA Y | Disaste |
|---------|--------------------------|--------------------------------------|----------------|----------|---------|
| | Survey Point ID : | SPD0DD0CE | | | |
| | Excel Filename : | S00304CB_K0143_0053_L_CE_07.xls | See Excel file | | |
| | Region : | Region VII | | - | |
| | Responsible DEO : | Cebu 4th District Engineering Office | | 2 | |
| | Road Name : | Toledo-Barili-Santander Rd | | 2 | |
| | Road ID : | R99997CB | | | |
| | Road Section ID : | S00304CB Section Le | ngth : 79666 | m | |
| | Station : | From: K0143 🗾 53 m | Until: K0143 👱 | 471 m | |
| | Lenght of survey : | 418 m | | | |
| | Side of Survey : | Left side of road | <u>.</u> | | |
| | Disaster Type : | Coastal Erosion | | <u> </u> | |
| | Name of Inspector : | Amelia Caracut | | | |
| | Date of Survey : | 8 /10/2006 | | | |
| | Checked By : | | | | |
| | Date Checked : | 1/15/2007 | \ | | |

Viewing the previous record

| General | FRCDp | Detailed Survey Countermeasures | s IFA | Disaster |
|---------|--------------------------|---|----------------|----------|
| | | | | |
| | Survey Point ID : | SF00000DF | | |
| | Excel Filename : | S00852LZ_K0209_0047_R_DF_07.xls | See Excel file | |
| | Region : | Region II | | |
| | Responsible DEO : | Nueva Vizcaya Sub-District Engineering Office | | |
| | Road Name : | Daang Maharlika (LZ) | <u> </u> | |
| | Road ID : | R00001LZ | | |
| | Road Section ID : | S00852LZ Section Length : | 33167 m | |
| | Station : | From: K0209 - 47 m Until | K0209 | 49 m |
| | Lenght of survey : | 2 m | | |
| | Side of Survey : | Right side of road | | |
| | Disaster Type : | Debris Flow | | |
| | Name of Inspector : | Pelita V. Galvez | 1 | |
| | Date of Survey : | 8/1/2006 | 1 | |
| | Checked By : | | <u>]</u> | |
| | Date Checked : | 1 /15/2007 | | |
| | | | | |

| General | FRCDp | Detailed Survey Countermea | isures I IFA I | Disaster |
|---------|--|--|----------------|----------|
| | Survey Point ID : | \$F000000¢£ |] | |
| | Excel Filename : | S00304CB_K0143_0053_L_CE_07.xle Region VII | See Excel file | |
| | Responsible DEO : | Cebu 4th D RSMS - Road Slope Management System | | |
| | Road Name : | Toledo Bat RSMS - Select Query | × | |
| | Road ID : Road Section ID : | Select a query : S00304CB | 79666. m | |
| | Station : | From: Filter Records | K0143 471 m | |
| | Lenght of survey : Side of Survey : | List all survey points. | | |
| | Disaster Type : | Coastal Erc. | | |
| | Name of Inspector : | Amelia Caracut | | |
| | Date of Survey : Checked By : | 1.8/10/2006 Z | | |
| | Date Checked : | 1 /15/2007 | | |

Using query to modify data

3. After selecting a record, enter the new information in the fields you want to modify.

| General | ↓ FRCDp | Detailed Survey Countermeasures IFA | Disaste |
|---------|---------------------|---|---------|
| | Survey Point ID - | 500000000 | |
| | Excel Filename : | S00304CB_K0143_0771_L_RE_07.xk See Excel file | |
| | Region : | Region VII | |
| | Responsible DEO : | Cebu 4th District Engineering Office | |
| | Road Name : | Toledo-Batili-Santander Rd | |
| | Road ID : | R99997CB | |
| | Road Section ID : | S00304CB Section Length : 79666 m | |
| | Station : | From: K0143 T771 m Unit: K0143 781 m | |
| | Lenght of survey : | 10 m | |
| | Side of Survey : | Left side of road | |
| | Disaster Type : | River Erosion | |
| | Name of Inspector : | Amelia Caracut | |
| | Date of Survey : | 8 /10/2006 | |
| | Checked By : | | |
| | Date Checked : | 1/15/2007 | |
| | - | | |

The Study on Risk Management for Sediment-Related Disaster on Selected National Highways in the Republic of the Philippines

4. Click the **Save** button to update or save the modified record. Otherwise click the **Upper menu** button to go back to Data manipulation window without saving the changes.

| General | FRCDp | Detailed Survey Countermeasures IFA Disaster |
|---------|---------------------|--|
| | Surgay Baint ID - | STRADDINE |
| | Survey Point 10 : | |
| | Excel Filename : | See Excel file |
| | Region : | Hegian VII |
| | Responsible DEO : | Cebu 4th District Engineering Office |
| | Road Name : | Toledo-Barili-Santander Rd |
| | Road ID : | R93997CB |
| | Road Section ID : | S00304CB Section Length : 79666 m |
| | Station : | From: K0143 771 m Unit K0143 781 m |
| | Lenght of survey : | 10 m |
| | Side of Survey : | Left side of road |
| | Disaster Type : | River Erosion |
| | Name of Inspector : | Amelia Caracut |
| | Date of Survey : | 8 /10/2006 |
| | Checked By : | Petra Galved |
| | Date Checked : | + /15/0007 |
| | - and successes t | 17 (19)(00) |
| | | |
| query | Clear this page C | lear << < Prev record Next record> >> |
| ive | Upper Menu Prin | nt Help |

4.4 Remove/Un-remove Data (Hide/Un-hide data) (Authorized user only)

This allows an authorized user to switch the Remove Flag of the record to make the record retrievable or not. 'Retrievable' means that the record can be viewed by the user.

To remove/un-remove data

1. From the Data Manipulation window, click the **Remove/Un-remove data** button to display the **Remove/Un-remove** dialog box.

| 54,114 | - Dum Muniphanton |
|--------|-----------------------|
| 1 | Data Manipulation] |
| | Add new data |
| | Import data |
| | Modify data |
| | Remove/Un-remove data |
| | Delete data |

| The Study on Risk Management for Sediment-Related Disaster on | |
|---|--|
| Selected National Highways in the Republic of the Philippines | |

2. In the Remove/Un-remove dialog box, select the record for which you want to change the status of the Remove Flag, by clicking the Next record button to show the next record, or Previous record button to show the previous record. You can also use a query in selecting a record by clicking the Exec query button to choose an applicable query in the Query dialog box. In the lower part of this window, the present status of the Remove-Flag is displayed.

| General | FRCDp | Detailed Survey | Countermeasures | IFA | Disaster |
|---------|----------------------|--|------------------|-----------------|----------|
| | | La construction de la constructi | - 1 | Δ.r | ът 1 |
| | Survey Point ID : | SROODODCE | | | |
| | Excel Filename : | S00304CB_K0143_0053_L_CE_07.xk | See | Excel file | |
| | Region : | Region VII | | | |
| | Responsible DEO : | Cebu 4th District Engineering Office | | <u>×</u> | |
| | Road Name : | Toledo-Barili-Santander Rd | | <u>×</u> | |
| | Road ID : | R99997CB | | | |
| | Road Section ID : | S00304CB | | 2 | |
| | Station : | K0143 • | 53 m Until K0143 | 471 n | n |
| | Lenght of survey : | 418 m | | | |
| | Side of Survey : | Left side of road | <u> </u> | | |
| | Disaster Type : | Coastal Erosion | | | |
| | Name of Inspector : | Amelia Caracut | 7 | | |
| | Date of Survey : | 1 H FLO76008 | | | |
| | Checked By : | | | | |
| | Date Checked : | 1 /15/2007 | 1 | | |
| | | Hide Record : OF | | | |
| query | Switch Remove Flag o | of this record | < Prev record | Next record> >> | |
| ve | Switch Remove Flag | of all retrieved records | Upper Menu | Print Help | |

3. Click the **Switch Remove/Un-remove** button to change the status of the Remove Flag. You can also switch the Remove Flag of all retrieved records by clicking the **Switch Remove Flag of all retrieved records** button.

| | FRCDp | Detailed Survey | Countermeasures |) IFA | Ŷ Disaste | | |
|--|---|--|------------------|----------|-----------|--|--|
| | Survey Point ID : Excel Filename : Region : Responsible DEO : Road Name : Road ID : Road Section ID : | SP0000006 See Excel file S00304CB_K0143_0053_L_CE_07.x8 See Excel file Region VII T Cebu 4th Distict Engineering Office T Toledo Bails Santander Rd T Reges7CB S00304CB: | | | | | |
| | Station : | K0143 💌 | 53 m Until K0143 | ₹ 471 m | | | |
| | Lenght of survey : Side of Survey : | Left side of road | <u>×</u> | | | | |
| | Lenght of survey : Side of Survey : Disaster Type : | Left side of road Coastal Erosion | × | <u>×</u> | | | |
| | Lenght of survey : Side of Survey : Disaster Type : Name of Inspector : | Left side of road Coastal Erosion Amelia Caracut | 1 | × | | | |
| | Lenght of survey : Side of Survey : Disaster Type : Name of Inspector : Date of Survey : | Left tide of road Coastal Erosion Amelia Caracut In /10/6000 |] | 2 | | | |
| | Lenght of survey : Side of Survey : Disaster Type : Name of Inspector : Date of Survey : Checked By : | Left tide of road Coastal Erosion Amelia Caracut 18 /10/2006 | | | | | |

Switching the Remove Flag of the selected record

The Study on Risk Management for Sediment-Related Disaster on Selected National Highways in the Republic of the Philippines Switching the remove flags of all retrieved records

| General | FRCDp | Detailed Survey | Countermeasures | IFA Y | Disaste |
|---------|---------------------|--------------------------------------|-------------------|-----------|---------|
| | | | | | |
| | Survey Point ID : | SFGQQQQCE | | | |
| | Excel Filename : | S00304CB_K0143_0053_L_CE_07.xls | See E | scel file | |
| | Region : | Region VII | | | |
| | Responsible DEO : | Cebu 4th District Engineering Office | | | |
| | Road Name : | Toledo-Banii-Santander Rd | × | | |
| | Road ID : | R99997CB | | | |
| | Road Section ID : | S00304CB | | * | |
| | Station : | K0143 | 53 m Until: K0143 | • 471 m | |
| | Lenght of survey : | 418 m | | | |
| | Side of Survey : | Left side of road | * | | |
| | Disaster Type : | Coastal Erosion | | <u>×</u> | |
| | Name of Inspector : | Amelia Caracut | | | |
| | Date of Survey : | 18 /20/2008 | I | | |
| | Checked By : | - | | | |
| | Date Checked : | 1 #187/20097 | ľ | | |
| | | Hide Record 1 OF | | | |
| | | niue Record : | | | |

4. Click the Save button to save the change. To cancel the change, simply click the Upper Menu button without clicking Save.

| General | FRCDp | Detailed Survey | Countermeasures | IFA | Disaster |
|------------|--------------------------|--------------------------------------|------------------|---|--|
| | Survey Point ID : | \$490000CE | | | |
| | Excel Filename : | S00304CB_K0143_0053_L_CE_07.xls | See Exc | el file | |
| | Region : | Region VII | | | |
| | Responsible DEO : | Cebu 4th District Engineering Office | | - | |
| | Road Name : | Toledo-Barili-Santander Rd | | | |
| | Road ID : | R99997CB | | | |
| | Road Section ID : | \$00304CB | | | |
| | Station : | K0143 | 53 m Until K0143 | ★ 471 m | |
| | Lenght of survey : | 418 m | | | |
| | Side of Survey : | Left side of road | <u>×</u> | | |
| | Disaster Type : | Coastal Erosion | | <u> </u> | |
| | Name of Inspector : | Amelia Caracut | | | |
| | Date of Survey : | In /20/2008 | | | |
| | Checked By : | - | | | |
| | Date Checked : | 1 /15/2007 | | | |
| | | Hide Record : ON | × | | |
| Exec query | Switch Remove Flag o | I this record | < Prevecord Next | record> >> | |
| Save | Switch Remove Flag | of all retrieved records | Upper Mehu Prin | it Help | |
| | | | | he status was ecomes effect icked | changed. This change ive after the Save butt |
4.5 Delete Data (Application Support Administrator only)

This allows an authorized user to delete data from the database. Only data for which the remove flag is 'ON' can be deleted. <u>The user should be very careful since the deleted records cannot be recovered.</u>

To delete data

1. From the Data Manipulation window, click the **Delete data** button to display the **Delete data** dialog box.

| [Data Ma | acinulation] | |
|-----------|--------------------------------------|--|
| I Dara Ma | aubriación 1 | |
| 1 | Add new data | |
| Ĩ. | Import data | |
| i i | Modify data | |
| | Description (the summaries dates | |
| - | Kennove/on-remove data | |
| | Modify data Remove/Un-remove data | |

2. In the **Delete data** dialog box, select a record you want to delete by clicking the **Next record** button to show the next record, or the **Previous record** button to show the previous record. You can also use a query in selecting a record by clicking the **Exec query** button to choose an applicable query in the **Query** dialog box.

| | FRCDp | Detailed Survey Count | termeasures | IFA | Disaste |
|--|---|--------------------------------------|---------------|----------|---------|
| | | 20000000 | | | |
| | Survey Point ID : | SPSRABUSC | | | |
| | Excel Filename : | S00267CB_K0035_0027_R_SC_07.xls | See Excel fil | e | |
| | Region : | Region VII | | 2 | |
| | Responsible DEO : | Cebu 3rd District Engineering Office | | 2 | |
| | Road Name : | Cebu-Balamban Transcentral Highway | | | |
| | Road ID : | R00012CB | | | |
| | Road Section ID : | S00267CB | | | |
| | Station : | K0035 💌 27 m | Until K0035 | • 151 m | |
| | Lenght of survey : | 124 m | | | |
| | Side of Survey : | Right side of road | - | | |
| | Disaster Type : | Soil Slope Collapse | | <u> </u> | |
| | Lander and your his an even at | | | | |
| | Name of Inspector : | Pelita V. Galvez | | | |
| | Name of Inspector : Date of Survey : | Pelita V. Galvez | | | |
| | Name of Inspector : Date of Survey : Checked By : | Pelka V, Galvez | | | |
| | Name of Inspector : Date of Survey : Checked By : Date Checked : | Pelke V. Galvez | | | |

3. Click the **Delete this record** button to delete the selected record, or click the **Delete all retrieved records** button to delete all retrieved records.

Deleting the selected record

| General | FRCDp | Detailed Survey | Countermea | sures | IFA | Ŷ | Disaste |
|--------------|---------------------|--------------------------------------|------------|-----------|----------|-------|---------|
| | Survey Point ID : | 5.6000805C | | | | | |
| | Excel Filename : | S00267CB_K0035_0027_R_SC_07.xls | 1 | See Excel | file | | |
| | Region : | Region VII | | | | | |
| | Responsible DEO : | Cebu 3rd District Engineering Office | | | | | |
| | Road Name : | Cebu-Balamban Transcentral Highway | | | - | | |
| | Road ID : | R00012CB | | | | | |
| | Road Section ID : | \$00267CB | | | <u>×</u> | | |
| | Station : | K0035 💻 | 27 m Until | K0035 | 2 | 151 m | |
| | Lenght of survey : | 124 m | | | | | |
| | Side of Survey : | Right side of road | × | | | | |
| | Disaster Type : | Soil Slope Collapse | | | | | |
| | Name of Inspector : | Pelita V. Galvez | | | | | |
| | Date of Survey : | 8 /16/2008 | | | | | |
| \mathbf{i} | Checked By : | | | | | | |
| | Date Checked : | 1 /15/26092 | | | | | |
| | \backslash | | | | | | |

Deleting all retrieved records

| General | FRCDp | Detailed Survey Countermeasures IFA Disaster |
|---------|---------------------|--|
| | Survey Point ID : | sepponase |
| | Excel Filename : | S00267CB_K0035_0027_F_SC_07.xks See Excel file |
| | Region : | Region VII |
| | Responsible DEO : | Cebu 3rd District Engineering Office |
| | Road Name : | Cebu-Balamban Transcentral Highway. |
| | Road ID : | R00012CB |
| | Road Section ID : | S00267CB |
| | Station : | K0035 💽 27 m Until K0035 💽 151 m |
| | Lenght of survey : | 124 m |
| | Side of Survey : | Right side of road |
| | Disaster Type : | Soil Slope Collapse |
| | Name of Inspector : | Feita V. Galvez |
| | Date of Survey : | 8.416/2008 |
| | Checked By : | |
| | Date Checked : | 1/15/2007 |
| | | |

SECTION 5 DATA BROWSER MODULE and QUERY (all users)

The DATA BROWSER MODULE allows the user to export a record or a list of records to an Excel file. A parameterized query can be used to find the record of interest. You can access the Data Browser by clicking the **Data Browser** button in the **Main Menu**. All RSMS users can use this module. The data browser window is shown below.

| General | HICOL | Detailed liamen Countermodures 254 Disate |
|---------|------------------------|---|
| | | |
| | Servey Food 10 | er partie et c |
| | Easel Filename (| SU0364CB_X0243_005L_4_CE_07.eli |
| | Bealtin (| Regime VII |
| | Bespenalite DED | Columeth District Represerves Office |
| | Read Party | Taledo Barli Cantarder R.L. |
| | Road XD-1 | 11660//Cm |
| | Read Services 10 / | 101514CB * |
| | Mathem's | 40343 m 141 40343 m 413 m |
| | Langht of survey i | |
| | Inde of Survey - | cattania of read |
| | Disaster Type : | Coartial from . |
| | Name of Inservice | finante Giesezt |
| | Date of Surgers i | |
| | (Desked By . | |
| | Date Checked | |
| | Poster on the group of | |

5.1 To Export a Record

- 1. In the **Data Browser** dialog box, select the record you want to export by clicking the **Next record** button to show the next record, or the **Previous record** button to show the previous record. You can also use the **Exec query** button to query a record or a list of records you want to export. A detailed explanation on **Exec query** will be given later.' <<' button shows the first (retrieved) record while '>>' button shows the last record on the window.
- 2. Click the **See Excel file** button to export the record to an Excel file.

Final Report Guide I Risk Management Planning

| Norvey Foiot 20: Import 10: Import | General | - HICN | Detailed Turner Courrentweatures SFA Disarter | 1 |
|--|------------|---------------------|---|----------|
| Faced Pittemanne (Bit000HCE_NODEL_CE_07.48 See Eaced Bite Regions () Faced Street () See Eaced Bite Receptionabile DED () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office See Eaced Reced Street () Tellus 401 Claintuit Streptoreurg Office Tellus 401 Claintuit Streptoreurg () Note of Street () Tellus 401 Claintuit Streptoreurg () Tellus 401 Claintuit Streptoreurg () Tellus 401 Claintuit Streptoreurg () Nations of Streptore () Tellus 401 Claintuit Claintuit Claintuit () Tellus 401 Claintuit () Tellus 401 Claintuit () Date af Street () Tellus 401 Claintuit () Tellus 401 Claintuit () Tellus 401 Claintuit () Tellus 401 Claintuit () Date af Street () Tellus 401 Claintuit () Tellus 401 Claintuit (| | Servey Food 10 i | property of | |
| Region : Fegure V3 See Exc Read Summ : Index 400 Cide/ut Summerey Office See Exc Read Summ : Index 600 Cide/ut Summerey Office See Exc Read Summ : Index 600 Cide/ut Summerey Office See Exc Read Summ : Index 600 Cide/ut Summerey Office See Exc Read Summ : Index 600 Cide/ut Summerey Cide | | Easel Filename (| SU0964CB_N0245_d0bl_1_CE_07.du See Excel Tite | |
| Beespenakide DD0 Feller 410 Claimin Stansovery Office See Exc Read Frames Feller 410 Claimin Stansovery Office See Exc Read Frames Feller 410 Claimin Stansovery Office See Exc Read Frames Feller 410 Claimin Stansovery Office See Exc Read Frames Feller 410 Claimin Stansovery Office See Exc Read Frames Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Read for any read Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Read of Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Difference if Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Difference if Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Data of Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Data of Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Data of Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office Data of Survey Feller 410 Claimin Stansovery Office Feller 410 Claimin Stansovery Office | | Beginn (| Rame VII | |
| Based Frames : Indede durit Startwoot Hill Indede Startwoot Hill Inded Sta | | Bespenaldite DED | Celu #5 Celvis Espreerve Offic | ₩ |
| Road Stri #################################### | | Road Parison L | Fidedo darit Santarder Rit. | See Exce |
| Broad Section 1D / ID1210(10 Station / (40143) Langht of Servery : (418) Inde of Servery : (418) Disaster Type : (418) Disaster Type : (1010) | | Road SD : | 1960/CB | П |
| Station > 40343 10343 413 413 413 Longhit of survey : 418 1000 1000 1000 Bide of Survey : 148 1000 1000 Disaster Type : 148 1000 1000 Disaster Type : 1000 1000 1000 Disaster Type : 1000 1000 1000 Disaster Type : 1000 1000 1000 Date discover : 1000 1000 1000 Date Election : 1000 1000 1000 | | Read Services 10 / | Insta-CR 2 | |
| Longhi af aurwer : 419 - Hole of Survey : Laft stills of exact Dransfer Type : Control from . Name of Inspector : Fillen Constit Date of Survey : Checked By : Date Shecked : | | Mattern 2 | AD43 2 53 00 1041 AD45 2 473 00 | |
| Rede of Servey : Juli self state of rank | | Longht of survey i | 418 | |
| Dreaster Type (Careau Name of Inspectar) Data of Survey (Careau Checked By) Data Deter Decked (Careau | | Inde of Survey . | Cattania of risks | |
| Name of Inspector : [Finite Caracit Data of Survey [Finite Caracit Checked By : [Finite Caracit | | Disaster Type + | Coarted Freems | |
| Data of Scottage | | Name of Inspector : | filletta Grippett | |
| Checked By 5 | | Date of Survey (| 14 CT | |
| Date Checked / | | thucked by s | | |
| | | Date Stocked | | |
| | | | | |
| | Earn query | 11 APres and | Ned records 32 Super Hons Print Holy | |
| Emis gang i i i Forening Med regado 32 Uppe Reiss Print Holy | | optay all executio | | |
| Enn gany it if in a first mark Head records in the Upper Heins Print Heils | | | To the last | rooord |

3. Click the See Excel file button to export the record to an Excel file.



5.2 Using the Query.

A brief explanation on the query function used to search for records is given here. This query function can also be used in other modules such as data modification.

1. In the Data Browser dialog box, click the **Exec query** button. A menu is displayed at the center of the screen which enables you to select what kind of query you want to use.

| General | 1. Hicki | Detailed Turess Countermosaure | i IfA Disarter |
|-----------|--------------------|--------------------------------|-------------------|
| | Survey Point 10 : | RSMS - Road Slope Management S | ystem |
| | Begine (| RSMS - Select Query | |
| | Bergenaldde DED i | Select a query : | 3 |
| | Ree and Ally 1 | Search Record | |
| | Read Section 10 r | Filter Records | 2 (17) e |
| | Longht of survey 1 | | |
| | Inde of Survey - | List all survey points. | |
| | Disaster Type : | Cancel | |
| | Date of Survey (| | |
| | there and the s | | |
| | Date Checked | | $\langle \rangle$ |
| | | | |
| East gamy | in the seconds | Meal records | Hem. Print Print |
| | | | |

- 2. Select one of the following three, or click Cancel to go back to Data Browser Window.
- a) Search record
- b) Filter records
- c) List all survey points
 - 2. You can browse the content of one record (one survey point) using "Search record". However, you should know the survey point ID of the point you want to browse in advance.

Final Report Guide I Risk Management Planning

| RSMS - Road Slope Management System |
|-------------------------------------|
| RSMS - Select Query |
| Select a query : |
| Search Record |
| Filter Records |
| List all survey points. |
| Cancel |
| |

A new window shown below appears. Input the survey point ID of your interest, and click **Search**. The stored information of the survey point is displayed in the data browser window. If you specified a wrong survey point ID, a warning message is displayed. You can re-input the correct survey point ID, or go back to the Select Query Menu by clicking **Cancel**.



3. You can search the records which satisfy the condition you specified. This is sometimes called conditional query(ing). To use this function, select Filter Records from the Query menu (see below).

Final Report Guide I Risk Management Planning



A Filter window shown below appears. You can filter records by specifying a Region, an Engineering Office, a Road name, a disaster type, the survey year, or their combination. 'Combination' means that if you specify more than one condition, the intersection in mathematical terms will be retrieved. An example of the combination is shown later.

| lter Records | | |
|-----------------------|----------|---|
| Select a Region : | Ē | ۲ |
| Select an Office : | | * |
| Select a Road : | <u> </u> | ۲ |
| Select a Disaster Typ | e: | * |
| Year : | Ì. | |

For easy and prompt setting of the filter, a combo-box (drop-down menu) is available for each item.

For example, if you specify only the disaster type as "Debris Flow" and click **OK**, all of "Debris Flow" data will be selected whichever the region, the engineering office, the road name, or the survey year would be.

| The Study on Risk Management for Sediment-Related Disaster on Selected National Highways in the Republic of the Philippines | Final Report Guide I Risk Management Planning |
|---|---|
| RSMS - Road Slope Management System | |
| RSMS - Select Query | |
| Filter Records | |
| Select a Region : | |
| Select an Office : | |
| Select a Road : | |
| Select a Disaster Type : Debris Flow | |
| Year : | In this example, only disaster type is specified to |
| OK Cancel | filter data. All survey points for 'Debris Flow' will be retrieved. |

Or, for example, if you specify the region as "Cordillera Administrative Region (CAR)" and the disaster type as "Road Slip", and click **OK**, all "Road Slip" data belong to Region CAR will be retrieved (see the figure below).

| RSMS - Road Slope Man | ingement Sy | stem | | | |
|------------------------|--------------|---|---|---|---|
| RSMS - Select Quer | ry | | | | |
| Filter Records | | | | | |
| Select a Region : | Cordillera | Administrative Region | | | |
| Select an Office : | - | | A | | |
| Select a Road : | 1 | | • | | |
| Select a Disaster Type | e : Road Sip | | | \backslash | |
| Year : | | | | | |
| | ок | Cancel | T | | |
| | | In this exam disaster type 'CAR Region' | ple, The con is used to fi data for 'Ro | nbination of F lter data. All ad Slip' will b | Region name and survey points in e retrieved. |

If, you click **OK** on the Query Filter window shown above, the records satisfying the conditions are listed as shown below.



By clicking the **Export data to Excel** button, you can export this list into an Excel file in the form of an integrated sheet. That list window will be dismissed by clicking the **Cancel** button.

The first record which satisfies the filter conditions is displayed in **Data Browser** dialog box. You can roam to and fro using the **Next record** button, the **Previous record** button, '<<' button, or '>>' button.

4. Clicking the **"List all survey points"** button displays a list of all the stored records.

| | RSM5 - Road Slope Management System |
|--|--|
| | RSMS - Select Query |
| Click List all survey points to export the list of all points into an Excel file. | Select a query : Search Record Filter Records List all survey points. Cancel |

A list and a chart are displayed as shown below.

| 1 C C C C C C C C C C C C C C C C C C C | Excel Filename | Region Name | Engineeration |
|--|----------------------------------|---|---|
| H000004(E | \$00304CB_K0143_0053_L_CE_07.5% | Region VII | Çebu #th Di- |
| 1000000 | 50085212 K0205 0047 R DF 07 sts | Region 11 | Nueva Vizce |
| 2,00000 | \$00110LT_K1006_0611_L_1%_07.4% | Region VIII | Southern Le |
| 00000RC | S00052LZ_K0209_0093_R_PC_07(XH) | Pegion II | Nueva Vizce |
| 00000RE | 500304CB_K0141_0771_L_PE_07-11 | Region VII | Cabu 4th De |
| 100000RS | \$00052LZ_K0200_0046_1_R3_07.v3¢ | Region 11 | Nueva Vizca |
| 200001CE | S00304CB_E0146_0106_1_CE_07.xhs | Region VII | Cebu 4th Dr. |
| PODDOSDF | S0005212_K0209_0091_A_DF_07_kis | Region II | Nueve Vicce |
| FOODOLLS | S00220LT_K1006_0745_1_15_07_xm | Region WIII | Southern Le |
| "0000011hC | 15001138M K0844 0000 L RC 07.14 | Region with | Samer 2nd 1 |
| hart type | Export data to Experi | Grephile : Day | Click Export dat |
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| 500 700 800 900 900 900 900 900 900 900 900 9 | Export data to Exect | Coreph Bir 1: Con APH BY DISASTER TYPE 800 700 500 900 100 100 100 100 100 100 1 | estar Type Click Export dat Excel to export thi astal Erosion bris flow tainde er Erosion ad Sip ch Slope Collepse |
| 600 700 800 400 300 200 100 | Export data to Exper | Corech Bre 1: Con APH BY DISASTER TYPE 800 700 500 500 500 500 300 200 200 200 200 200 200 200 200 2 | Click Export dat Click Export dat Excel to export thi estal From this flow wands er Proston ad Slip th Slope Collapse |

The following functions are available from this window.

1) Click the **Export data to Excel** button to export the list into an Excel file in the form of an integrated sheet. The chart (a pie chart in the above example) is exported in another sheet of the Excel file.

2) Click the Cancel button to go back to the Data Browser dialog box.

3) Select the chart type, a pie chart or bar chart, from the drop down menu.4) Select the type of classification (by Region, by Road, etc). By default,

the graph is drawn by classification of the disaster type.



5.3 Exporting List of All Records to an Excel File

There is another button, "**Display all records**" in the **Data Browser** dialog box. This shows the same list described in the previous section.

| General | Hicki | Detailed Barrey | Courte/measures | 3FA | Diserte | |
|---------|---------------------|--|---------------------|----------|---------|--|
| | Survey Point 10 | in the second se | 1 | | | |
| | Excel Filename (| 100304CE_00043_0051_1_CE_07 | ter t | and the | | |
| | Region (| Rame VII | | - | | |
| | Bergenaldte DED | Calic att. District Regimeering Office | 0 | 3 | | |
| | Read Prates | Fidedo darik Cantander Rd. | - | | | |
| | Road 3D | 11669//CB | | | | |
| | Read Section ID / | Intrieca | | * | | |
| | Mattern's | (5043 E | 53 (m Lunia) (10247 | 2 (1) in | | |
| | Langht of survey L | - 418 | | | | |
| | Inde of Survey : | Laft suis of reas | 2 | | | |
| | Disaster Type : | Contral Freemy | | 2 | | |
| | Name of Inspector : | female Gener | | | | |
| | Date of Survey (| | | | | |
| | (Becked By). | 1 | | | | |
| | Date Checked | 1.0 | | | | |
| | | | | | | |
| | | | | | | |

Click **Display all records** to export the list of all points into an Excel file.

SECTION 6. ADMINISTRATIVE OPERATION MODULE

An authorized user might have to change or reset a password, add or delete a user, grant or revoke privileges, start or shutdown the database management system, and backup or restore the database.

The Administrative Operation module is accessed by clicking the **Administrative Operation** button in the **Main Menu** window. The Administrative Operation window shown below appears.

| 51/5 1 | Include business of the second |
|---------|--|
| [Admir | nistrative Options] |
| 1 | Change Password |
| 1 | Reset password of user |
| | Add/Delete user |
| Ľ. | Grant/Revoke privilege |
| 1 | Shutdown/Start/Backup/Restore database |
| 1 | Change Formula |
| | Upper Menu Help |

6.1 To Change Password

1. From the Administrative Operation window, click the **Change Password** button to display the Change Password dialog box.



2. In the Change Password dialog box, enter a new password and press Enter to save. Note: A password can contain up to 8 characters and is case sensitive.

| RSMS - Road Slope Management System | |
|---|--|
| RSMS - Change Password | |
| [Change Password] New Password ****** Confirm New Password ****** | |
| Upper Menu | Help Type the new password and press Enter |

6.2 To Reset Password (Privileged user only)

Privileged users can reset passwords of other users when the users forget his/her password and also the answer to the secret question.

1. From the Administrative Operation window, click the **Reset Password** button to display the Reset Password dialog box.

| | RSMS (Road Slope Management System) |
|------------------------|--|
| | RSMS - Administrative Operation |
| | [Administrative Options] |
| Reset password of user | Change Password Reset password of user Add/Delete user Grant/Revoke privilege Shutdown/Start/Backup/Restore database Change Formula Help |

- 2. In the Reset Password dialog box, select the user whose password you want to reset.
- 3. Type a new password and press Enter to save. Note: A password can contain up to 8 characters and is case sensitive.

| he Study on Risk Management for Sediment-Related Disaster on elected National Highways in the Republic of the Philippines | | | Final Report Guide I Risk Management Planning |
|--|--------------------|--------------|--|
| RSMS - Road Slope Managem | ent System | | |
| RSMS - Administrative | Operation | | 1) Select user |
| [Administrative Operat | ion : Reset passwo | rd of user] | |
| New Password | ***** | | 2) Type a new password |
| Verification | [] | | and press Enter. |
| | Upper Menu | Help | |

6.3 To Add User (Privileged user only)

1. From the Administrative Operation window, click the Add/Delete User button to display the Add/Delete User dialog box.



- 2. In the Add/Delete User dialog box, type a new username and password. You can see a list of existing usernames in advance.
- 3. Click the **Yes** button to grant the privilege to the user, or click **No**.
- 4. Select the user category (Read-Only End User/Data Encoder/User Coordinator/Support Administrator)
- 5. Select a secret question and type the answer given by the user.
- 6. Click the **Register OK** button to save the information to the database.

| e Study on Risk Mana ected National Highw | gement for Sediment-Related Disaster on ays in the Republic of the Philippines | Final Report Guide I Risk Management Planning |
|--|--|---|
| SMS (Road Slope Mar RSMS - Adminiatr | agement System) ative Operation (Add/Delete User) | |
| Add an User | List of Users | 1) Check existing usernames |
| New Usernanie Password | NEWONE | 2) Type a new username and password. |
| Venification Grant privilege? | Yes No. | 3) Set the user category. In th |
| | Type of User O Read Only O Encoder | User is selected |
| Secret Question (| What is the name of your pet? | 4) Select a secret question and type the answer. |
| Delete an User | Register OI: | 5) Click Register OK |
| | Delote OK | |
| Clear | Upper Menu Help | |

6.4 To Delete User (Privileged user only)

 From the Administrative Operation window, click the Add/Delete User button to display the Add/Delete User dialog box

| Add/Delete User dialog box. | |
|-----------------------------|---|
| | RSMS - Administrative Operation |
| | [Administrative Options] |
| | Change Password |
| Add/Delete user | Add/Delete user |
| | Grant/Revoke privilege Shutdown/Start/Backup/Restore database |
| | Change Formula |
| | Upper Menu Help |

2. In the Add/Delete User dialog box, select a user you want to delete in the combo box.

| dministrative Onti | | |
|--------------------|------------------------------|---------------------------|
| | on : Add/Delete User] | |
| Add an Liser | - List of Users | |
| New Usemanie | | |
| Password | | |
| Ventication | | |
| - milicancei | | |
| urant privilege? | ves No X | |
| | Type of User O Read Only | |
| | O Encoder | |
| anna anna a | | |
| petres Question : | | |
| | | 1) Select a user to be de |
| Answer : | L] | |
| Answer : | Register OK | |
| Answer : | Register OK | |

3. Click the **Delete OK** button to delete the user.

6.5 To Grant or Revoke Privilege (Privileged user only)

The privilege to use RSMS is granted, and may be revoked. These functions are carried out by **Application Support Administrators.**

1. From the Administrative Operation window, click the **Grant/Revoke Privilege** button to display the Grant/Revoke Privilege dialog box.

Final Report Guide I Risk Management Planning

| | R5M5 (Road Slope Management System) |
|--------------|--|
| | RSMS - Administrative Operation |
| | [Administrative Options] |
| | Change Password |
| Grant/Revoke | Reset password of user |
| nrivilege | Add/Delete user |
| privilege | Grant/Revoke privilege |
| | Shutdown/Start/Backup/Restore database |
| | Change Formula |
| | Upper Menu Help |

2. In the Grant/Revoke Privilege dialog box (shown below), select the username required. The current status of the user is displayed.

| MS - Road Slope Manageme | nt System | 1) Select a user |
|---|---------------------------------------|---|
| SMS - Administrative (| Deration n : Grant/Revoke privilege] | 2) The present statu is displayed |
| Select a user Current privilege status | OGAWA | 3) Click to toggle the privilege status |
| Save Upp | er Menu Cancel and Clear Help | 4) Click Save |

- 3. Click the **Toggle privileged/unprivileged** button to switch the user's status.
- 4. Click the **Save** button to save changes.

6.6 To Shutdown the Database Management Application (Application Support Administrators only)

The administrators should know that 'shutdown' database management system does not mean shutting down the power of the server PC. It means the shutdown of the database from the viewpoint of the software. The shutdown is necessary before executing the backup. After the backup is finished, the administrators might have to re-start the database management system so that the users can utilize RSMS application again.

1. From the Administrative Operation window, click the **Start/Shutdown/Backup/Restore database** button to display Start/Shutdown/Backup/Restore database dialog box.



2. In the Start/Shutdown/Backup/Restore database dialog box shown below, the present status of the database management system (Up or Down) is displayed. Click the **Execute Shutdown** button to shutdown the database management system.

| IS - Administrative Op | Shutdown / Start / Backup / Restore] | 1) The present status of t database management system is displayed |
|---------------------------|--|--|
| Current database status | Up | |
| Shutdown (start-up) datab | Execute Shutdown | 2) Click the Execute |
| Backup database (only da | abase is down) | Shutdown button |
| Select backup-type | Fut | |
| | specify file E-mikertia.log | |
| Restore database (only da | itabase is down) | 15 |
| | and the second sec | |

6.7 To Start the Database Management Application (Application Support Administrators only)

In order to use RSMS database application, for example, to browse the data, the status of the database management system should be 'Up'. When the server PC is powered on, the database management system is automatically started. However, for example, after the database backup was executed, the manual re-start of the database management system is necessary.

- 1. From the Administrative Operation window, click the **Start/Shutdown/Backup/Restore database** button to display Start/Shutdown/Backup/Restore database dialog box.
- 2. In the Start/Shutdown/Backup/Restore database dialog box, click the **Execute Startup** button to start the database management system.

6.8 *To Backup the Database* (Application Support Administrators only)

- 1. From the Administrative Operation window, click the **Start/Shutdown/Backup/Restore database** button to display Start/Shutdown/Backup/Restore database dialog box.
- 2. In the Start/Shutdown/Backup/Restore database dialog box, click the **Execute Shutdown** button to shutdown the database management system if necessary. You can only backup the database when the database management system is down.

| SMS - Road Slope Management System | | 1) The current database status should be ' Down ' to execute the backup | |
|---|--------------------------|--|---|
| RSMS - Administrative Operation | | | [|
| [Administrative Operation : Shutdowr | n / Start / Backup / Res | store] | 2) Select the backup-type, 'Full' or 'Incremental' |
| Current database status Shutdown (start-up) database | Execute Startup | | 2) Specify a healaup file |
| Backup database (only database is | down) | | 3) specify a backup file |
| Select Germinishe | Specify file | Execute backup | 1 |
| Restore database (only database is | down) | | |
| | Select file | Execute restore | 4) Click the 'Execute backup' button |
| | Upper Me | nu Help | |

A full backup is a completed copy of the database at the time of executing the backup. On the other hand, an incremental backup stores only the changes from the previous backup. Therefore, from a full backup, the content of the database is restored up to the status when the full backup was taken. Furthermore, an incremental backup might have to be used in combination with a full backup to restore the content of the database completely.

- 3. Click the **Specify file** button to browse and enter the name of the backup file.
- 4. Click the **Execute Backup** button to backup the content of the database. After the backup is completed, a message will be displayed.

6.9 To Restore the Database (Application Support Administrators only)

- 1. From the Administrative Operation window, click the **Start/Shutdown/Backup/Restore database** button to display the Start/Shutdown/Backup/Restore database dialog box.
- 2. In the Start/Shutdown/Backup/Restore database dialog box, click the **Execute Shutdown button** to shutdown the database management system if necessary. You can only restore database when the database management system is down.
- 3. Click the **Specify file** button to browse the backup file you want to restore.
- 4. Click the **Execute Restore** button to restore the database.

| S - Road Slope Management System MS - Administrative Operation | 1) The current database status should be ' Down ' to execute restoring the database |
|---|---|
| [Administrative Operation : Shutdown / Start / Backup / Re | store |
| Current database status | |
| Shutdown (start-up) database | 2) Specify a backup file for restoring the |
| Backup database (only database is down) | database |
| Select backup-type | Trente barkun |
| Restore database (only database is down) | Electric Charles |
| Select file | Execute restore |
| Upper Me | 3) Click the 'Execute restore' button |

6.10 To Change Formula (Application Support Administrators only)

This is implemented in RSMS database application, so that the changes in the formula used to calculate IFA can be reflected in the application.

1. From the Administrative Operation window,

| click the Change Formula button to display the Change Formula dialog | RSMS (Road Slope Management System) |
|---|---|
| box. | RSMS - Administrative Operation |
| | [Administrative Options] |
| | Change Password |
| Change Formula | Reset password of user |
| | Add/Delete user Grant/Revoke privilege |
| | Shutdown/Start/Backup/Restore database |
| | Upper Menu Help |

3. In the Change Formula dialog box, you can change the values of the parameters and the mode (min, max, etc). Click **Save** to save the changes.

| Change Formula | | |
|--|------------|--------------------|
| Coefficient for volume estimation : | No Input | |
| Value of the selected coefficient volume : | 1 | |
| Unit value of human life lost (death) | 2300000 | |
| Average number of human death per RCD : | 0,004 | 1) Select the mode |
| Countermeasure 1 Risk Reduction ratio : | Min | from the menu |
| Risk Reduction ratio value : | Ave Max | |
| Countermeasure 2 Risk Reduction ratio | Min | 2) Change the |
| Risk Reduction ratio value : | 0,3 | parameter value |
| Countermeasure 3 Risk Reduction ratio : | Min | |
| Risk Reduction ratio value : | 0 | 3) Click Save |
| Change FRCDp Save | Cancel | |

If you would like to change score values used in the FRCDp calculation, follow the procedure shown below.

- 1. Click the **Change FRCDp score** button in the Change Formula dialog box shown above. The Change FRCDp dialog box appears as shown below.
- 2. In the Change FRCDp dialog box, select the sheet for the disaster type, select the item from the menu, and modify the corresponding score value.

| Manuff Shines The Automation Series | | disaster t your inte | ype of rest. | | |
|--|-----------------|-------------------------|--|-----------------|-----------------------|
| Soil Stope RC: Rock Sin Collapse Collapse | De LS: Landsk | de RSIR | and Slip DF: Debris Flow Area ratio of bedrock | E River Erosion | E: Coestal Erosion |
| produced servery sector | | 0.16 | expodure I AR | - | 0.046 |
| Heigth of mountainside | lif an 90m | | Hindusency score for HELDO | Fractured rock | |
| slople I.H | | 0.019 | materials of Destroyal | | 0.058 |
| Prequency score for PECDp | 5.3m 60* | | Prequency score for PRCDp | Present | |
| Gradent of slope G | 10.000 | 0.092 | Spring (Surface weber) | Friesdin | 0.297] |
| Distance from road to toe | (im>D | | Deluthance | Erósion | |
| of molantoinside slope : D | - | 0.089 | Frequency group for FD/Tex. | E | 0.072 |
| These shares | Valey type | W | Foldier on shame as | Guard Perce | - |
| Designer an appendie and the property of | Lange and the s | 0.028 | Brad wool treat for motion | | 9.2 |
| Dominate vegetation / | Bare | | - reducing score to though | | 1 .1 |
| Prequency score for FRICDp I | - | 0.051 | | 3) C | nange the |
| Dominate insterials of stone outface : | Sit, Clav | | | SC | |
| Frequency score for FRCDp | | 0.014 | | | |
| | Char constan | ige t value | Save Cance | | |
| | | | | 4) Click S | bave |
| Clicking the Chavelet | ange const | ant to the | | | |

SECTION 7 HELP MODULE

This is used to provide the users with the online information on the system and will answer frequently asked questions.

To use the Help dialog box

- 1. From the Main Menu window, click the Help button to open its dialog box.
- 2. In the dialog box that appears, click on the tab of the help options you need to use.
- 3. Click on the topic and then click the **Display** button to display the information for that particular topic.
- 4. Click this **Hide** icon to show/hide the tabs for the RSMS help.

Appendix-6

Road Slope Management System (RSMS)

Manual Volume 2

INSTALLATION MANUAL (Server)

Ver1.1 June 2007

The Department of Public Works and Highways

Notice

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RSMS

RSMS (Road Slope Management System) is an application software program, which was developed in the Study named "The Study on Risk Management for Sediment-related Disaster on Selected National Highways in The Republic of The Philippines. This Study was undertaken by the Japan International Cooperation Agency (JICA) Study Team, the The Department of Public Works and Highways (DPWH) Counterpart Team, in cooperation with DPWH and JICA Philippine Office.

SECTION 1 INTRODUCTION

This section provides the application support administrator with an overview of the installation of the Road Slope Management System (RSMS) into a server PC.

SECTION 2 REQUIREMENTS

Hardware

- + CPU Pentium IV 2.4G or equivalent
- + CD-R drive (for software installation)
- + 2 GB RAM
- +100 GB disk space

Software

+MS Windows Server2003 should be installed in advance +MS-Office 2003 (Word, Excel) should be installed

SECTION 3 INSTALLATION PROCEDURE (Server)

Notice: The installation procedure should be performed by an administrator of the Server PC.

I. Set up network parameters to connect to LAN

II. Install Microsoft SQL Server 2005

- 1. Disconnect each server from any external network by unplugging all cables or disabling all network adapters.
- 2. Verify that the server in which you intend to install SQL Server 2005 is turned on.
- 3. Insert the SQL Server 2005 Standard Edition CD into the CD drive.
- 4. If the **Microsoft SQL Server 2005 Standard Edition** splash screen does not appear, run the **splash.hta** file from the product CD.
- 5. On the End User License Agreement page, accept the terms of the license, and then click Next.
- 6. On the **Installing Prerequisites** page, click **Install**. SQL Server 2005 Setup installs the required software components.
- 7. On the Installing Prerequisites page, click Next.
- 8. On the Welcome to the Microsoft SQL Server Installation Wizard page, click Next.
- 9. On the System Configuration Check page, click Next.
- 10. On the **Registration Information** page, enter information in the **Name** and **Company** boxes. To continue, click **Next**.
- 11. On the **Components to Install** page, select the following options:

Select a production database server, select:

- ✓ SQL Server Database Services
- ✓ Notification Services
- ✓ Integration Services
- ✓ Workstation Components, Books Online and development tools
- 12. Click Next.
- 13. On the **Instance Name** page, select **Default instance**, and then click **Next**. On the **Service Account** page, select **Use the built-in System account**.
- 14. In the Start services at the end of setup section, select all the check boxes, and then click **Next**.
- 15. On the Authentication Mode page, select Windows Authentication Mode, and then click Next.
- 16. On the Collation Settings page, select SQL collations, and then click Next.
- 17. On the **Report Server Installation Options** page, select **Install the default configuration**, and then click **Next**.
- 18. On the Error and Usage Report Settings page, select both check boxes, and then click Next.
- 19. On the Ready to Install page, click Install.
- 20. On the Setup Progress page, click Next.
- 21. On the Completing Microsoft SQL Server 2005 Setup page, click Finish.

III. Create user accounts to allow users to connect to the SQL Server. IV. Install the Road Slope Management System (RSMS) application.

1. Insert the **Road Slope Management System (RSMS) Installer CD** into the CD drive and run the **Setup**.



2. On the Welcome to the Road Slope Management System installation program page, click OK.

| Road Slope Managem | ent System Setup | |
|--------------------|--|--|
| | | |
| | | |
| | | |
| | Road Slope Management System Setup Welcome to the Road Slope Management System installation program. Setup cannot install system files or update shared files if they are in use. Before proceeding, we recommend that you dose any applications you may be running. OK Egit Setup | |
| | | |
| | | |
| | | |
| | | |
| | | |

3. On the Begin the installation by clicking the button below page, click the button with a computer icon.

| Road Slope Managem | ent System Setup | |
|--------------------|-----------------------------------|--------------------|
| | | |
| | oad Slone Management System Setun | X |
| | Eigit Setup | In software to the |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

- Read Stope Management System Statu

 Image: Control of Con
- 4. On the Road Slope Management System Choose program page, click Continue.

5. After the installation is finished, click **OK**.

| Road Slope Management System Setup | | | |
|------------------------------------|--|---------------|--|
| | | | |
| | | | |
| | | | |
| | | | |
| Road Slope A | Aanagement System Setup | | |
| Road Slope M | anagement System Setup was completed s | successfully. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

- V. Create the Road Slope Management System (RSMS) ODBC
 - 1. Click Start Menu and select Control Panel.

Final Report Guide I Risk Management Planning



2. On the Control Panel window, double-click Administrative Tools.


3. On the Administrative Tools window, double-click Data Sources (ODBC).



4. On the Data Sources (ODBC) dialog box, click System DSN tab.

| Name MSGED | SQL Server | | Add |
|-----------------|--|---|-----------|
| MSGEOtransfer | SQL Server | | Remove |
| MSPIC mstemn | SQL Server Microsoft Visual FoxPro Driver | | Configure |
| iblio | Microsoft Access Driver (*.mdb) | | |
| iokey | Microsoft Access Driver (*.mdb) | | |
| bPicGeo | Microsoft Access Driver (*.mdb) | | |
| oPKU andbPRU | SQL Server | | |
| IsnED | SQL Server | | |
| IsnFDdummv | Microsoft Access Driver (*.mdb) | × | |
| | | | |

5. Under the System DSN tab, click Add.

Final Report Guide I Risk Management Planning

| No. of Concession, Name of | Unroi. | 100 | |
|--|---|-----|-----------|
| MSGEO | SQL Server | | Demaile |
| MSGEUtransrer MSpic | SQL Server | | nemove |
| mstemp | Microsoft Visual FoxPro Driver | | Configure |
| iblio | Microsoft Access Driver (*.mdb) | | - |
| iokey EDiacaa | Microsoft Access Driver (*.mdb) | | |
| bPicaeo 6PBH | Microsoft Access Driver (.mdb) SQL Server | | |
| sndbPRU | SQL Server | | |
| snFD | SQL Server | | |
| snFDdummv | Microsoft Access Driver (*.mdb) | | |

6. On the Create New Data Source dialog box, select SQL Server and then click Finish.

| | Name | V A |
|-------|--|-----|
| | Microsoft Paradox Driver (*.db.) | 4 |
| | Microsoft Paradox Driver (*.db) | 4 |
| | Microsoft Text Driver (* kt. * csv) | 4 |
| | Microsoft Text-Treiber (* txt; * csv) | 4 |
| | Microsoft Visual FoxPro Driver | 6 |
| 11425 | Microsoft Visual FoxPro Driver (*.dbf) | 6 |
| | Microsoft Visual FoxPro-Treiber | 6 |
| | OUL SEIVEL | 2 ~ |
| | | × |
| | | |
| | | |

7. On the **Create a New Data Source to SQL Server** dialog box, enter the following: **Name**: dsnRSMS

Server: (Select the server where the RSMS Server is running.)

| Microsoft SQL Server | DSN Configuratio | <u>n</u> | | |
|--|--|---|--------|---------------------|
| Select a daneer to manual control to the south to the south south to the south tot | This wizard will help connect to SQL Serv What name do you w Name: How do you want to Description; Which SQL Server d Server: | vou create an ODB(/er. vant to use to refer t dsnRSMS describe the data so describe the data so o you want to conn RAR (local) GSISERVER RAR RAR RAR | Cancel | you can use to ? |
| | ta sector to | | Jr. | |

8. Click Next.

| Select a direct to me off Access f off dBase f off Excel (b) resolt Excel (b) resolt Excel (b) resolt Excel (b) resolt Access f off Access | This wizard will help you create an ODBC data source that you can use connect to SQL Server. What name do you want to use to refer to the data source? Name: dsnRSMS | s to |
|---|---|------|
| Sold Pas Sold Pas Sold Serve | How do you want to describe the data source? Description: Which SQL Server do you want to connect to? | |
| | Server: RAR | • |
| | Finish Next > Cancel Help | |

9. On the SQL Server Authenticity page, select With Windows NT authentication using the Network login ID and check the Connect to SQL Server to obtain default settings for the additional configuration options.

| Microsoft SQL Server | DSN Configuration | | | × |
|--|---|---|--|--|
| Select a dayrel w Select a dayrel w me Select a dayrel w me Select a dayrel w off Access I off Access I of | How should SQL Serv With Windows With SQL Serv entered by the To change the netword click Client Configuration | ver verify the ai NT authentica er authenticati user. rk library used ion. | uthenticity of the login ation using the networl on using a login ID an to communicate with S | ID? k login ID. id password SQL Server, |
| | Connect to SQL S additional configur Loger (D) Pasewort K Back | erver to obtair ation options. | default settings for th | e Help |

10. Click Next.

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| | < Back Ne | xt> Cancel | Help |

11. Check Change the default database to, and select RSMS on the dropdown list.

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12. Click Next.

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| | connected | |
| | Use ANSI quoted identifiers. | |
| | Use ANSI nulls, paddings and warnings. | |
| r | O se the fadover SQL Server in the primary SQL Server in not available. | |
| | | |
| | | |

13. Then click Finish.



14. On the **ODBC Microsoft SQL Server Setup** page, click **Test Data Source** to check if the connection is successful.



15. If the connection is successful, click **OK**.

| SQL Server ODBC Data Source Test | |
|---|------------|
| Test Results | |
| Microsoft SQL Server ODBC Driver Version 03.85.1117 Running connectivity tests Attempting connection Connection established Verifying option settings Disconnecting from server TESTS COMPLETED SUCCESSFULLY! | - |
| ОК | <u>M</u> . |

16. Then click **OK**.

VI. Create a folder to store the RSMS Survey Sheets

1. Create a folder in C:\Program Files directory and name it RSMS Files.

Final Report Guide I Risk Management Planning

| 📁 Program Files | | | | E (B 🔀 |
|---------------------------------|---|-------------|--------------------------------|---------|
| File Edit View Favorites Tools | Help | | | |
| 🔇 Back 🔹 🕤 🍵 🔎 | Search 🔁 Folders 🛄 • | | | |
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| Date Modified: Today, April 04, | 📴 Web Publish | File Folder | 1/24/2006 3:31 PM | |
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| Fistart B 8 9 | Report puts a p. 🔲 MICROSOFT SO. 🕞 RSMS Tostaller | COMPS: | 🔴 🗁 Camle Ving 💦 🧖 Program Ele | |

2. Inside the folder **RSMS Files** create another folder and name it **Excel Sheet**.



3. Share the **RSMS Files** folder and set the permission to **Allow Full Control for Everyone**.

| General Sharing | J Security Customize |
|--------------------------------|--|
| You ca networ folder. | an share this folder with other users on your ik, To enable sharing for this folder, click Share this |
| 🔘 Do not sha | ire this folder |
| Share this | folder |
| Share name: | RSMS Files |
| Comment: | |
| User limit: | Maximum allowed |
| | O Allow this number of users: |
| To set permiss folder over the | ions for users who access this network, click Permissions. |
| To configure s Caching | ettings for offline access, click Caching |
| Windows Firew | all is configured to allow this folder to be shared |
| Man other comp | |
| VIEW YOUR WIND | iows hitewaii settings |

| roup or user names: Everyone | | |
|---------------------------------|-----|--------|
| ermissions for Everyone | Add | Remove |
| Full Control Change Read | | |
| | | |

VII. Create a Network Drive

1. Right-click My Computer and select Map Network Drive.



2. On the **Map Network Drive** dialog box, select Z: as the drive then click **Browse** to browse to the RSMS Server and select the **RSMS Files**.

| Map Network Drive | | | | |
|-----------------------|---|--|--|--|
| | Windows and assi access th Specify t that you | s can help you o gn a drive lette he folder using the drive letter i want to conne | connect to a shared n r to the connection so My Computer. for the connection an ct to: | etwork folder) that you can Id the folder |
| الكريبي المراجع | Drive: | Z: | <u>~</u> | |
| المحرج والا | Folder: | 21 Y: | | Browse |
| | | X: | | |
| | | W: V: | | |
| and the second second | | 0: | iam | i <u>e</u> . chto a |
| | | T: 5: | 110 | \mathbb{N} |
| | | R | | 10 |
| | | Q | | Cancel |
| | | 100 | | |

Final Report Guide I Risk Management Planning



- 3. Click **OK**.
- 4. Then click **Finish**.

| Map Network Drive Window and ass access Specify that yo | is can help you connect to a shared network folder lign a drive letter to the connection so that you can the folder using My Computer. the drive letter for the connection and the folder u want to connect to: |
|--|---|
| Drive: Folder: | Z: Browse Kar\RSMS\RSMS files Browse Example: \\server\share Reconnect at logon Connect using a different user name. |
| | Cancel |

Appendix-7

Road Slope Management System (RSMS)

Manual Volume 3

INSTALLATION MANUAL (Client)

Ver1.1 June 2007

The Department of Public Works and Highways

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In this manual, \bigcirc , \mathbb{R} or TM is not used. **RSMS**

RSMS (Road Slope Management System) is an application software program, which was developed in the Study named "The Study on Risk Management for Sediment-related Disaster on Selected National Highways in The Republic of The Philippines. This Study was undertaken by the Japan International Cooperation Agency (JICA) Study Team, and the Department of Public Works and Highways (DPWH) Counterpart Team, in cooperation with the DPWH and the JICA Philippine Office.

SECTION 1 INTRODUCTION

This section provides the application support administrator with an overview of the installation of the Road Slope Management System (RSMS) into a client PC.

SECTION 2 REQUIREMENTS

Hardware

- + CPU Pentium III 1.0G or equivalent
- + CD-R drive (for software installation)
- + 256KB RAM
- + 60MB disk space

Software

+MS Windows XP SP2 +MS-Office 2003 (Excel).

Other requirements

+RSMS should be already installed in the server. +Network connection with the sever should be available

Note

+Installation should be performed on each client PC by user with administrative privileges.

SECTION 3 INSTALLATION PROCEDURE

Installing the Road Slope Management System (RSMS) application.

1. Insert the Road Slope Management System (RSMS) Installer CD into the CD drive and run the Setup.



2. On the Welcome to the Road Slope Management System installation program page, click OK.



3. On the **Begin the installation by clicking the button below** page, click the **button with** a computer icon.



4. On the Road Slope Management System – Choose program page, click Continue.



5. After the installation is finished, click **OK**.



Creating the Road Slope Management System (RSMS) ODBC

1. Click Start Menu and select Control Panel.



2. On the Control Panel window, double-click Administrative Tools.

June 2007



3. On the Administrative Tools window, double-click Data Sources (ODBC).



4. On the Data Sources (ODBC) dialog box, click System DSN tab.

| The Study on Risk Management for S Selected National Highways in the R | Sediment-Related Disaster on epublic of the Philippines | | Final Report Guide I Risk Management Planning |
|---|--|--|--|
| 🚳 ODBC Data Source | • Administrator | | 2 |
| User DSN System DS System Data Sources: | N File DSN Drivers Trac | ing Connection I | Pooling About |
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| AMSGED AMSGEOtransfer | SQL Server SQL Server SQL Server | | Remove |
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| dsnFD dummy | Microsoft Access Driver (*. | mdb) 🔜 | |
| An ODBC the indicat on this ma | System data source stores info ed data provider. A System c chine, including NT services. | prmation about hou lata source is visib | w to connect to le to all users |
| | DK Cancel | Apply | Help |

5. Under the System DSN tab, click Add.

| Name | Driver | ~ | Add |
|--|---|---|---------------------|
| MSGEU MSGEOtransfer MSpic mstemp tiblio iokey bPicGeo bPRU IsndbPRU IsnfD boFDdurany | SQL Server SQL Server SQL Server Microsoft Visual FoxPro Driver Microsoft Access Driver (*.mdb) Microsoft Access Driver (*.mdb) SQL Server SQL Server SQL Server Microsoft Access Driver (*.mdb) | | Remove Configure |
| PicGeo PRU IdbPRU IFD IFD dummv | Microsoft Access Driver (*.mdb) SQL Server SQL Server SQL Server Microsoft Access Driver (*.mdb) | 2 | |

Final Report Guide I Risk Management Planning

6. On the Create New Data Source dialog box, select SQL Server and then click Finish.

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|-------------|----------|---------------------------------|-----|
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| | Micros | oft Paradox Driver (*.db) | 4 |
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| Colored and | Micros | oft Text-Treiber (*.txt; *.csv) | 4 |
| EV. | - Micros | oft Visual FoxPro Driver | 6 |
| - Cott | Micros | oft Visual FoxPro Driver (*.dbl |) 6 |
| | Micros | oft Visual FoxPro-Treiber | 6 |
| | | CIVEI | 2 M |
| | 5 | | X |
| | | | |

7. On the **Create a New Data Source to SQL Server** dialog box, enter the following: **Name**: dsnRSMS

Server: (Select the server where the RSMS Server is running.)

| Microsoft SQL Server | DSN Configuratio | <u>n</u> | |
|--|---|---|---------------------|
| Selact a dareet to month Access of Exact to a dareet to to dareet to to a dareet to to to a dareet to to to dareet to to | This wizard will help connect to SQL Serv What name do you w Name: How do you want to Description; Which SQL Server of Server: | you create an ODBC data source ver. want to use to refer to the data sou dsnRSMS describe the data source? do you want to connect to? RAR (local) GSISERVER RAR RAR | that you can use to |
| | Finish | Next > Cancel | Help |

8. Click Next.

| Microsoft SQL Server D | SN Configuration | 6 | | |
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| | Server: | RAR Next > | Cancel | Help |

9. On the SQL Server Authenticity page, select With Windows NT authentication using the Network login ID and check the Connect to SQL Server to obtain default settings for the additional configuration options.

| Select a device our one of the second of the second of the second of the second of the | How should SQL Server verify With Windows NT auth With SQL Server auther entered by the user. To change the network library click Client Configuration. | the authenticity of the login ID? entication using the network login ID. ntication using a login ID and passwo used to communicate with SQL Serve Client Configuration | rd sr. |
|---|--|--|-----------|
| | Connect to SQL Server to a additional configuration opt | obtain default settings for the ions. | - |
| | < Back Nex | it > Cancel Hel | p |

10. Click Next.

| Microsoft SQL Server | DSN Configuration | |
|---|--|---|
| Select a driver to: Select a | How should SQL Server verify the With Windows NT authent With SQL Server authentic entered by the user. To change the network library use click Client Configuration. | authenticity of the login ID? ication using the network login ID. ation using a login ID and password ad to communicate with SQL Server, |
| | Connect to SQL Server to obt. additional configuration option | Client Configuration ain default settings for the s. Cancel Help |

11. Check Change the default database to, and select RSMS from the dropdown list.

| Select a divice | - 17 | Change the default database to: | | |
|-----------------|------------|---|----------------------|--|
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12. Click Next.

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| | Use ANSI nulls, paddings and warnings. | |
| r | Displice follower SQL Server in the primary SQL Server is not available. | |
| | | |
| | <back next=""> Cancel Help</back> | 1 |
| | | |

13. Then click Finish.

| Select a divier to | Г | Change the language of SQL Server system messages to: |
|--------------------|---|---|
| The addit Access | | Endisti |
| off Excel | F | Use strong encryption for data |
| NETOSOR FOR | V | Perform translation for character data |
| Cosoft Para | | Use regional settings when outputting currency, numbers, dates and times. |
| SQL Serv | F | Save long running queries to the log file: |
| - the | | CADDICIME TANAN DOALS TATEMPAD DEPART DO |
| | | Long query time (milliseconds): |
| | Г | Log ODBC driver statistics to the log file: |
| | | ENDERIME TANANGEALS TO emphSTATISLD Drome |
| | | |

14. On the **ODBC Microsoft SQL Server Setup** page, click **Test Data Source** to check if the connection is successful.

| ODBC Microsoft SQL Server Setup | | |
|---|---|-------|
| A new ODBC data source will be cre configuration: | ated with the followi | ng |
| Microsoft SQL Server ODBC Driver Version Data Source Name: dsnRSMS Data Source Description: Server: RAR Database: RSMS Language: (Default) Translate Character Data: Yes Log Long Running Queries: No Log Driver Statistics: No Use Integrated Security: Yes Use Regional Settings: No Prepared Statements Option: Drop tempora disconnect Use Failover Server: No Use ANSI Quoted Identifiers: Yes Use ANSI Quoted Identifiers: Yes Use ANSI Null, Paddings and Warnings: Y Data Encryption: No | 1 03.85.1117 ary procedures on es | (k) |
| Test Data Source | ок с | ancel |

15. If the connection is successful, click **OK**.



16. Then click **OK**.

Creating a Network Drive

1. Right-click My Computer and select Map Network Drive.



2. On the **Map Network Drive** dialog box, select Z: as the drive then click **Browse** to browse to the RSMS Server and select the **RSMS Files**.

Final Report Guide I Risk Management Planning

| Map Network Drive | | | |
|--|--|--------------|------------|
| | Windows can help you connect to a shared network folder and assign a drive letter to the connection so that you can access the folder using My Computer. Specify the drive letter for the connection and the folder that you want to connect to: | | |
| | Drive: | Z: | × |
| | Folder: | 21 Y5 | Browse |
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| | | 3W25 | |
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- 3. Click OK.
- 4. Then click **Finish**.

| Map Network Drive | X | | | |
|--|--|--|--|--|
| Window and ass access Specify that you | Windows can help you connect to a shared network folder and assign a drive letter to the connection so that you can access the folder using My Computer. Specify the drive letter for the connection and the folder that you want to connect to: | | | |
| Drive: | Zi 🖌 | | | |
| Folder: | \\Rar\RSMS\RSMS files 💽 Browse | | | |
| | Example: \\server\share Reconnect at logon Connect using a <u>different user name</u> . Sign up for online storage or connect to a <u>network server</u> . | | | |
| | K Back Finish Cancel | | | |