

## INSTRUCTION-1: COMPILATION OF PHOTOGRAPHS

### 1. Pasting of Photographs

Paste all photographs on the A-3 size paper in accordance with negative number. Change page when you paste photographs of another negative.

### 2. Road Number/Bridge Name

When the road number can be identified by the photograph, no need to write down the road number on the A-3 size paper. If not, write down road number under the photo.

Bridge name shall be written down on the A-3 size paper.

### 3. Binding

Pasted photographs on the A-3 size papers shall be bound into several volumes with an appropriate thickness.

### 4. Table of Contents

Each volume shall be attached with Table of Contents. Two kinds of Table of Contents shall be prepared:

<u>Table of Contents by Page</u>	
Page No.	Road Number
1	4B522
2	4B523

<u>Table of Contents by Road</u>	
Road No.	Page No.
4B522	1, 3
4B523	2, 6, 7

### 5. Compilation of Negatives and Contact Prints

Prepare contact prints.

A contact print and corresponding negative shall be filed in the negative holder.

## INSTRUCTION-2: FINALIZATION OF ROAD MAP

1. Although we have prepared road map (on mylar base) prior to the field survey, road number/section number may have been changed or new road may have been added in the field. You are required to prepare the final road map indicating road number, section number and kilometerage used in the field survey.

### 2. Kilometerage

Following Kilometerage (or Station) shall be indicated:

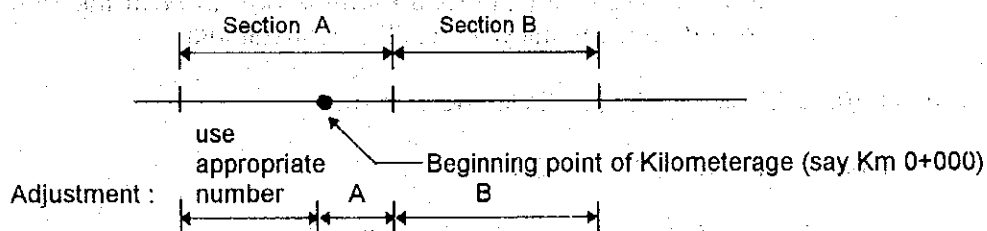
- The beginning (or the youngest) point of kilometerage in the province/island.
- The beginning kilometerage of each road.

#### Note-1:

In some provinces/islands, kilometerage indicated in the Straight Line Road Diagram is different from that in the field. In this case, use kilometerage in the field.

#### Note-2:

In some provinces/islands, the beginning (or the youngest) point of kilometerage does not always the same as the beginning of a road. In this case, adjust section number.



### INSTRUCTION-3: FINALIZATION OF FIELD SURVEY DATA FOR ENCODING: ROAD CONDITION SURVEY SHEET

1. For encoding purpose, we have changed the format, particularly header data (see Table-1).

For those who have already re-written field sheet neatly after you came back to a hotel, follow **Instruction-3.1**.

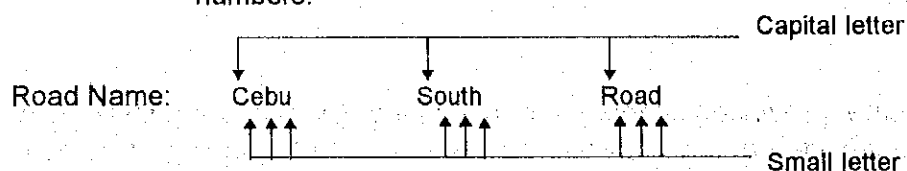
For those who have not re-written field sheet and field sheets are still difficult to read, follow **Instruction-3.2**.

2. **Instruction-3.1:** In case that the field sheets are neat and clear.

Basically, you are not required to re-write on the new format. You prepare header data and paste it on the neatly written field sheet.

#### Header Data

Road No. : Indicate full road number including regional and provincial code numbers.



Space provided for the road name is 50. In case the road name exceeds 50, consult with the JICA Consultants.

Admin. Road Class: N, P, C : Circle one of them.

Functional Class: NS, EW, OR, ZN, PR, CR

DPWH's functional classification is as follows:

NS : North-South Backbone  
 EW : East-West Lateral  
 OR : Other Road of Strategic Importance  
 ZN : Secondary National Road  
 PR : Provincial Road  
 CR : City Road

Refer to "National Arterial Road Network Map" for DPWH's classification. Take note that Provincial Road is sometimes classified as EW or OR. When you are not sure of classification of certain road, consult with the JICA consultants.

A/F : Adjustment factor for odometer reading. Prior to the field survey, you have determined A/F for each vehicle. Indicate A/F. Example: 0.976 or 1.097

Date:

**A3-24**

Length: Total length of a section (A or B or C, etc.). Length shall be based on the odometer reading without adjustment (or based on the field reading).

(From \_\_\_\_\_ + \_\_\_\_\_) (+, -) : Kilometerage of the beginning of each road (not section), determined based on the odometer reading without adjustment.

For a provincial road, indicate kilometerage of an intersecting national road.

(+, -): Circle + when the kilometerage is increasing, and - when decreasing towards the succeeding section.

Date : Enter survey data as follows:

3 09 97  
↑    ↑    ↑  
Month Date Year

### **Field Condition Data**

As accomplished in the field, except for the following:

Length : Mark with yellow or other light color. An encoder is not required to enter this subsection length.

Odometer Reading : Subsection No. 1 must have two odometer readings. The odometer reading at the beginning of Subsection No. 1 shall be entered at upper portion and the end reading at the lower portion of the row of Subsection No. 1.

For the succeeding sub-sections, only end reading shall be entered at the lower portion of each row of sub-section.

Take note that odometer reading shall be the field reading without adjustment. Adjustment will be made by the computer.

When you re-set odometer reading to 0 (zero) within one section, change odometer reading as if you read the odometer reading continuously (or the odometer reading shall be continuous within one section).

Remarks : First letter of a word shall be the capital letter and the remaining shall be small letters.

3. **Instruction-3.2:** In case that the field sheets were not re-written.

Re-write on the new format based on the Instruction-3.1 and field data.

#### **INSTRUCTION-4: FINALIZATION OF FIELD DATA FOR ENCODING: BRIDGE CONDITION SURVEY SHEET**

New format is shown in Table-2.

Basically follow Instruction-3. However, take note the following:

Bridge Name : First letter shall be the Capital letter and the remaining small letters.

Odometer Reading : Whenever you change the odometer reading in accordance with Instruction-3, do not forget to change the odometer reading of Bridge Sheet.

TABLE-2

Road No.: \_\_\_\_\_ Road Name: \_\_\_\_\_  
Admi. Road Class: N, P, C \_\_\_\_\_ Functional Class: NS, EW, OR, 2N, PR, CR \_\_\_\_\_  
Date: \_\_\_\_\_

Sub-Section No.	Bridge Name	Odometer Reading	Bridge Type	Bridge Length	Span Length	Width		Bridge Damage			Approach Road Damage			Survey Method	Remarks	
						Carriageway	Side-Walk	Slab	Super-structure	Sub-structure	1st Approach		2nd Approach			
											Magnitude	Length	Magnitude			Length
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H L U L M	- - - - -	H L U L M	F H		
			P S B F T	m	x x x x x	m	m	- - - - -	H L U L M	- - - - -	H					

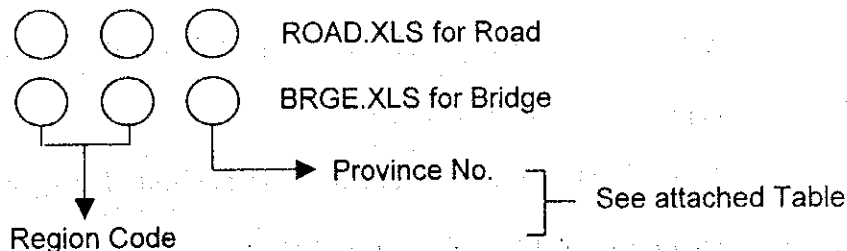
## ERROR CHECK OF ROAD INVENTORY DATA

### A. VALIDITY CHECK

#### 1. Road Number (cell : AD2)

Data File shall be created province by province.

Rule of naming data file is:



Ex. 4B2ROAD.XLS for Road in Occidental Mindoro  
4B2BRGE.XLS for Road in Occidental Mindoro

If road number in cell C3 does not begin with province code 4B2, "Error" will appear.

#### 2. Road Name (cell : AD3)

Maximum 50 characters, if road name is more than 50 characters, "Error" appears.

If road name is not entered in cell G3, "Error" appears.

#### 3. Administrative Classification (cell : AD4)

Capital letter of N, P, C only, if other letters are entered, "Error" will appear.

#### 4. Functional Classification (cell : AD5)

Capital letter of NS, WE, OR, 2N, PR, CR only, if other letters are entered, "Error" will appear.

#### 5. A/F (cell : AD6)

Adjustment factor must be  $0.8 \leq A/F \leq 1.3$ .

If adjustment factor is outside the range, "Error" will appear.

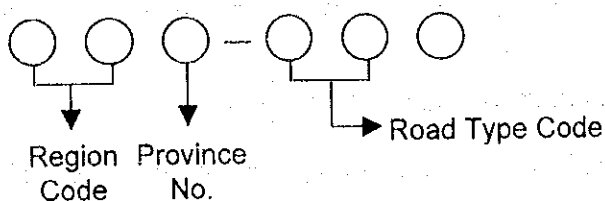


6. **Sign** (cell : AD7)  
Either "+" or "-" if other letters are entered, "Error" will appear.
7. **Date** (cell : AD8)  
Survey date must be March 1 – May 15, 1997.  
If survey date is not within the specified period, "Error" will appear.
8. **Pavement Type** (cell : AB11)  
C, A, G, E, '-' only, if other letters are entered, "Error" will appear.
9. **Pavement Condition** (cell : AD7)  
G, F, B, V, I, U, '-' only, if other letters are entered, "Error" will appear.
10. **Carriageway Width** (cell : AD11 - below)  
Numerical value must be entered for existing road, if data other than numerical value is entered, "Error" will appear.  
For non-existing road, "-" must be entered, if other character is entered, "Error" will appear.
11. **Median Width** (cell : AE11 - below)  
Numerical value must be entered if median exists, if data other than numerical value is entered, "Error" will appear.  
If median does not exist, "-" shall be entered, if other character is entered, "Error" will appear.
12. **Shoulder Type** (cell : AG11 - below)  
C, A, G, E, '-' only, if other character is entered, "Error" will appear.
13. **Sidewalk** (cell : AH11 - below)  
W, W/O only, if other character is entered, "Error" will appear.
14. **Terrain** (cell : AI11 - below)  
F, R, M only, if other character is entered, "Error" will appear.
15. **Landuse** (cell : AJ11, AK11 - below)  
A, F, W, P, S, U only, if other character is entered, "Error" will appear.
16. **Survey Method** (cell : AL11 - below)  
F, H only, if other character is entered, "Error" will appear.

## B. CONSISTENCY CHECK

### 1. Road Number (cell : AO4)

Rule of naming road number is:



01 – 09	Expressway (National)
11	Pan-Philippine Highway (National)
12	Manila North Road (National)
21 – 59	Other National Road
61 –	Provincial City Road
91 –	New road proposed by the Study

If road type code 13 through 20 is used, "Error" will appear.

If road type code is less than 60 and administrative road class is not "N", "Error" will appear.

If road type code is between 61 – 89 and administrative road class is not "P" nor "C", "Error" will appear.

### 2. Road Classification (cell : AO5)

If administrative class is "N" and functional class is "PR" or "CR", "Error" will appear.

If administrative class is "P" and functional class is not "PR", "Error" will appear.

If administrative class is "C" and functional class is not "CR", "Error" will appear.

### 3. Pavement Type/Width (cell : AM11 - below)

If pavement type is "-" and pavement width is not zero, "Error" will appear.

If pavement type is not "-" and pavement width is zero, "Error" will appear.

### 4. Pavement Condition (cell : AN11 - below)

If pavement type is "-" and pavement width is not "-", "Error" will appear.

If pavement type is not "-" and pavement width is "-", "Error" will appear.

**5. Median Width (cell : AO11 - below)**

If median width is zero and number of carriageway is not zero, "Error" will appear.

If median width is greater than zero and number of carriageway is zero, "Error" will appear.

**6. Shoulder Width/Type (cell : AP11 - below)**

If shoulder width is zero and shoulder type is not "-", "Error" will appear.

If shoulder width is greater than zero and shoulder type is "-", "Error" will appear.

**7. Substandard Alignment Section (cell : AQ11 - below)**

If total length of (V + H) is greater than subsection length, "Warning" will appear.

It is not an error though total length of substandard alignment exceeds subsection length since substandard alignment of both horizontal and vertical can be observed at same location. Warning message in this cell is to remind user whether input data is correct or not.

**8. Disaster Length (cell : AR11 - below)**

If total length of (CS + ES + DF + SR + FR) is greater than subsection length, "Warning" will appear.

It is not an error though total length of disaster spots exceeds subsection length since several types of disaster may occur at the same location at same time. Warning message in this cell is a simple reminder to user to confirm whether input data is correct or not.

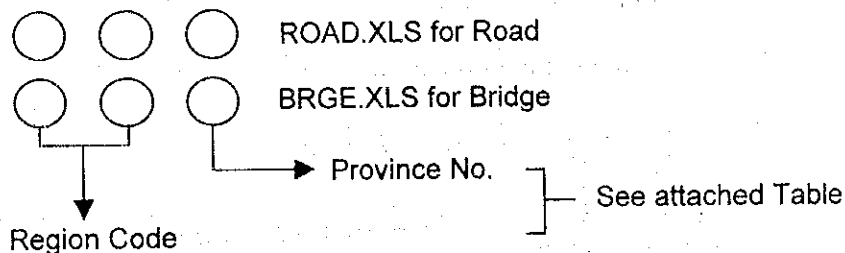
## ERROR CHECK OF BRIDGE INVENTORY DATA

### A. VALIDITY CHECK

#### 1. Road Number (cell : AE2)

Data File shall be created province by province.

Rule of naming data file is:



Ex. 4B2ROAD.XLS for Road in Occidental Mindoro  
4B2BRGE.XLS for Road in Occidental Mindoro

If road number in cell C3 does not begin with province code 4B2, "Error" will appear.

#### 2. Road Name (cell.: AE3)

Maximum 50 characters, if road name is more than 50 characters, "Error" appears.

If road name is not entered in cell G3, "Error" appears.

#### 3. Administrative Classification (cell : AE4)

Capital letter of N, P, C only, if other letters are entered, "Error" will appear.

#### 4. Functional Classification (cell : AE5)

Capital letter of NS, WE, OR, 2N, PR, CR only, if other letters are entered, "Error" will appear.

#### 5. Date (cell : AE6)

Survey date must be March 1 – May 15, 1997.

If survey date is not within the specified period, "Error" will appear.

#### 6. Bridge Type (cell : AD9)

P, B, T, S, F, N only, if other letter is entered, "Error" will appear.

7. **Slab Superstructure, Substructure, 1st Approach, 2nd Approach**  
(cell : AE9, AI9 - below)

-, L, M, H, U and blank only, if other letter is entered, "Error" will appear.

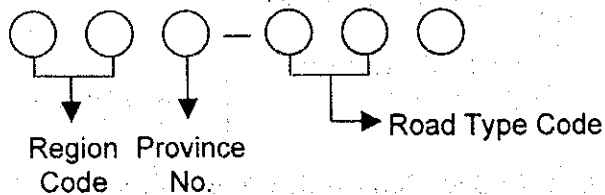
8. **Survey Method** (cell : AJ9 - below)

F, H only, if other letter is entered, "Error" will appear.

B. **CONSISTENCY CHECK**

1. **Road Number** (cell : AM3)

Rule of naming road number is:



01 – 09	Expressway (National)
13	Pan-Philippine Highway (National)
14	Manila North Road (National)
21 – 59	Other National Road
61 –	Provincial City Road
91 –	New road proposed by the Study

If road type code 13 through 20 is used, "Error" will appear.

If road type code is less than 60 and administrative road class is not "N", "Error" will appear.

If road type code is between 61 – 89 and administrative road class is not "P" nor "C", "Error" will appear.

2. **Road Classification** (cell : AM4)

If administrative class is "N" and functional class is "PR" or "CR", "Error" will appear.

If administrative class is "P" and functional class is not "PR", "Error" will appear.

If administrative class is "C" and functional class is not "CR", "Error" will appear.

**3. Bridge Type/Carriageway Width (cell : AK9 - below)**

If bridge type is "N" or "F" and carriageway width is not "0.0", Error will appear.

If bridge type is not "N" nor "F" and carriageway width is less than 2.0, Error will appear.

**4. Approach Damage (cell : AL9, AM9 - below)**

If approach damage is "-" or blank and damage length is not "0.0", "Error" will appear.

If approach damage is not "-" or blank and damage length is "0.0", "Error" will appear.

## **APPENDIX 3.4 - 1**

### **PRESENT ROAD / BRIDGE CONDITION DATA**

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Road Length Summary by Pavement Type per Administrative Road Classification**

Region	Province	National Road				Provincial Road				Total			
		Paved	Unpaved	U/C	Impassable	Total	Paved	Unpaved	U/C	Impassable	Total	Paved	Unpaved
IV-B	Mandauque	99.69	109.89	2.38	0.00	211.96	99.69	109.89	2.38	0.00	211.96	99.69	109.89
	Occidental Mindoro	29.92	235.15	1.94	29.69	297.00	21.52	110.35	0.00	0.00	131.86	51.45	235.15
	Oriental Mindoro	154.16	128.57	0.76	9.44	292.92	34.31	80.05	1.94	0.00	116.31	34.50	80.05
	Palawan	210.90	452.33	0.00	0.00	663.23	210.90	452.33	0.00	0.00	663.23	210.90	452.33
	Sub-total	63.77	204.82	0.15	0.00	273.74	37.8	48.25	0.00	0.00	86.05	72.57	86.05
V	Carabobo	53.48	110.27	5.21	39.43	208.46	53.48	110.27	5.21	39.43	208.46	53.48	110.27
	Misamis Occidental	42.22	203.44	2.36	0.00	248.03	42.22	203.44	2.36	0.00	248.03	42.22	203.44
	Misamis Oriental	121.33	145.24	8.73	20.40	295.70	121.33	145.24	8.73	20.40	295.70	121.33	145.24
	Sub-total	197.03	464.95	16.30	59.83	728.01	197.03	464.95	16.30	59.83	728.01	197.03	464.95
VI	Ateneo	102.26	40.82	0.00	0.00	143.08	102.26	40.82	0.00	0.00	143.08	102.26	40.82
	Antique	136.72	192.71	0.00	2.33	329.76	136.72	192.71	0.00	2.33	329.76	136.72	192.71
	Capiz	269.79	113.97	1.96	0.00	384.72	269.79	113.97	1.96	0.00	384.72	269.79	113.97
	Iloilo	497.90	309.39	8.82	0.00	816.11	497.90	309.39	8.82	0.00	816.11	497.90	309.39
	Guimaras	47.82	81.82	0.00	0.00	129.64	47.82	81.82	0.00	0.00	129.64	47.82	81.82
VII	Negros Occidental	564.05	333.69	39.50	0.00	937.24	564.05	333.69	39.50	0.00	937.24	564.05	333.69
	Negros Oriental	28.41	0.65	0.00	0.00	29.06	28.41	0.65	0.00	0.00	29.06	28.41	0.65
	Iloilo City	153.93	1073.14	50.28	2.33	2716.68	153.93	1073.14	50.28	2.33	2716.68	153.93	1073.14
	Sub-total	746.41	1417.32	91.81	2.33	3782.11	746.41	1417.32	91.81	2.33	3782.11	746.41	1417.32
VIII	Bohol	215.78	278.34	3.98	25.19	503.29	215.78	278.34	3.98	25.19	503.29	215.78	278.34
	Cebu	467.02	172.88	3.67	1.06	644.63	467.02	172.88	3.67	1.06	644.63	467.02	172.88
	Negros Oriental	324.92	35.21	10.69	0.00	370.82	324.92	35.21	10.69	0.00	370.82	324.92	35.21
	Siquijor	71.34	0.29	3.49	0.00	75.12	71.34	0.29	3.49	0.00	75.12	71.34	0.29
	Sub-total	1149.06	486.72	28.23	3.48	1665.47	1149.06	486.72	28.23	3.48	1665.47	1149.06	486.72
IX	Leyte	527.53	319.44	28.97	13.18	889.12	527.53	319.44	28.97	13.18	889.12	527.53	319.44
	Southern Leyte	141.36	71.83	27.55	0.00	240.74	141.36	71.83	27.55	0.00	240.74	141.36	71.83
	Bikolan	31.72	94.30	2.46	0.44	132.92	31.72	94.30	2.46	0.44	132.92	31.72	94.30
	Eastern Samar	159.35	107.41	0.00	0.00	306.76	159.35	107.41	0.00	0.00	306.76	159.35	107.41
	Western Samar	125.64	36.62	0.00	0.00	162.26	125.64	36.62	0.00	0.00	162.26	125.64	36.62
X	Zamboanga del Norte	1232.80	688.42	58.97	19.88	2039.78	1232.80	688.42	58.97	19.88	2039.78	1232.80	688.42
	Zamboanga del Sur	243.21	148.35	0.88	0.00	392.47	243.21	148.35	0.88	0.00	392.47	243.21	148.35
	Sub-total	1476.01	836.77	59.85	19.88	2432.25	1476.01	836.77	59.85	19.88	2432.25	1476.01	836.77
XI	Comogon	176.97	455.52	1.23	2.31	636.02	176.97	455.52	1.23	2.31	636.02	176.97	455.52
	Misamis Occidental	50.04	13.96	0.00	0.00	64.00	50.04	13.96	0.00	0.00	64.00	50.04	13.96
	Misamis Oriental	169.85	34.32	0.36	0.00	204.53	169.85	34.32	0.36	0.00	204.53	169.85	34.32
	Sub-total	396.86	583.80	1.59	2.31	904.55	396.86	583.80	1.59	2.31	904.55	396.86	583.80
XII	Davao del Norte	233.66	115.43	3.78	0.00	352.87	233.66	115.43	3.78	0.00	352.87	233.66	115.43
	Davao del Sur	83.90	125.15	27.10	79.31	315.46	83.90	125.15	27.10	79.31	315.46	83.90	125.15
	Davao Oriental	99.58	241.23	3.63	0.00	344.44	99.58	241.23	3.63	0.00	344.44	99.58	241.23
	South Cotabato	159.41	35.47	18.35	11.28	224.51	159.41	35.47	18.35	11.28	224.51	159.41	35.47
	Sarangani	133.56	65.24	38.69	42.55	280.44	133.56	65.24	38.69	42.55	280.44	133.56	65.24
XIII	Davao City	87.46	20.61	76.00	0.00	184.07	87.46	20.61	76.00	0.00	184.07	87.46	20.61
	Sub-total	794.83	603.13	139.48	93.43	1537.47	794.83	603.13	139.48	93.43	1537.47	794.83	603.13
XIV	Lanao del Norte	157.50	107.88	2.20	6.42	274.00	157.50	107.88	2.20	6.42	274.00	157.50	107.88
	North Cotabato	218.78	310.15	7.69	63.68	529.30	218.78	310.15	7.69	63.68	529.30	218.78	310.15
	Sultan Kudarat	68.78	133.41	0.00	7.00	211.19	68.78	133.41	0.00	7.00	211.19	68.78	133.41
	Sub-total	445.06	551.44	9.89	77.10	1033.49	445.06	551.44	9.89	77.10	1033.49	445.06	551.44
ARMM	Aqusan del Norte	143.11	65.26	1.32	26.68	236.37	143.11	65.26	1.32	26.68	236.37	143.11	65.26
	Aqusan del Sur	165.60	122.65	0.00	0.00	288.25	165.60	122.65	0.00	0.00	288.25	165.60	122.65
	Sarangani del Norte	89.81	56.12	2.99	4.76	143.68	89.81	56.12	2.99	4.76	143.68	89.81	56.12
	Sarangani del Sur	55.46	34.25	4.05	16.66	96.37	55.46	34.25	4.05	16.66	96.37	55.46	34.25
	Sub-total	474.18	348.28	11.36	48.10	868.81	474.18	348.28	11.36	48.10	868.81	474.18	348.28
Study Area Total	Lanao del Sur	151.30	112.80	4.40	6.50	275.00	151.30	112.80	4.40	6.50	275.00	151.30	112.80
	Majunundan	159.25	79.86	0.00	9.17	249.28	159.25	79.86	0.00	9.17	249.28	159.25	79.86
	Sub-total	310.55	192.66	4.40	15.67	524.28	310.55	192.66	4.40	15.67	524.28	310.55	192.66
	Study Area Total	7969.62	6637.00	352.55	392.09	15441.26	7969.62	6637.00	352.55	392.09	15441.26	7969.62	6637.00



**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Arterial Road Length Summary by Pavement Type**

Region	Province	North-South Backbone				East-West Lateral				Other Roads of Strategic Importance						
		Paved	Unpaved	U/C	Impassable	Total	Paved	Unpaved	U/C	Impassable	Total	Paved	Unpaved	U/C	Impassable	Total
IV-B	Mainitque	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.31	23.41	2.38	0.00	128.10
	Occidental Mindoro	5.95	18.64	0.66	5.66	30.92	0.00	0.00	0.00	0.00	0.00	38.28	174.78	1.09	12.00	226.15
	Oriental Mindoro	123.43	81.51	0.00	9.44	214.38	3.12	14.54	0.00	0.00	0.00	21.95	30.54	0.78	0.00	53.24
	Palaivan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	205.15	332.55	0.00	0.00	537.70
V	Sub-total	129.38	100.15	0.66	15.10	245.30	3.12	14.54	0.00	0.00	0.00	414.11	448.91	4.38	12.00	1071.28
	Catarmanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.06	163.32	2.36	0.00	204.74	
	Macabebe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.00	78.79	0.71	0.00	121.49	
	Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	141.06	182.10	3.07	0.00	326.23	
VI	Atlan	31.26	24.63	0.00	0.00	55.89	0.00	0.00	0.00	0.00	0.00	45.90	2.75	0.00	0.00	48.65
	Antique	0.09	6.39	0.00	0.00	6.48	1.12	12.74	0.00	0.00	0.00	110.42	42.31	0.00	0.00	152.73
	Capiz	43.76	5.22	0.00	0.00	48.98	77.91	14.27	1.96	0.00	0.00	88.12	94.47	0.00	0.00	182.59
	Iloilo	63.16	0.65	0.00	0.00	63.82	33.26	62.74	0.00	0.00	0.00	152.59	0.00	0.00	0.00	152.59
VII	Guimaras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.93	28.74	0.00	0.00	45.67	
	Negros Occidental	298.56	11.33	8.04	0.00	316.50	13.56	27.15	0.00	0.00	0.00	30.01	55.78	30.39	0.00	123.76
	Ibala City	3.55	0.00	0.00	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	440.40	42.72	8.04	0.00	490.22	33.18	116.93	1.34	0.00	0.00	442.97	224.06	30.99	0.00	738.02
VIII	Bohol	114.66	74.90	0.00	0.00	189.45	46.56	28.61	2.57	0.00	0.00	59.56	10.29	1.50	0.00	71.34
	Cebu	172.32	17.89	0.00	0.00	190.21	22.70	33.80	0.00	0.00	0.00	235.81	127.85	2.17	0.00	365.83
	Negros Oriental	104.05	0.00	0.50	0.00	104.54	10.64	16.00	8.71	0.00	0.00	217.75	7.57	1.49	0.00	226.81
	Sub-total	391.03	92.83	0.50	0.00	484.33	79.91	72.41	11.28	0.00	0.00	71.34	0.29	3.48	0.00	75.13
IX	Leyte	112.05	2.41	0.83	0.00	115.28	36.38	15.68	0.00	0.00	0.00	84.83	25.24	0.00	0.00	110.10
	Southern Leyte	51.95	0.25	0.00	0.00	52.19	0.00	0.00	0.00	0.00	0.00	66.29	0.00	0.00	0.00	66.29
	Basilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	163.99	2.66	0.83	0.00	167.42	36.38	15.68	0.00	0.00	0.00	151.12	25.24	0.00	0.00	176.39
X	Eastern Samar	28.97	0.00	0.00	0.00	28.97	30.62	43.19	0.00	0.00	0.00	133.40	39.97	0.00	0.00	173.37
	Northern Samar	203.87	0.15	0.00	0.00	203.81	62.41	16.87	0.00	0.00	0.00	90.78	0.00	0.00	0.00	90.78
	Western Samar	396.63	2.80	0.33	0.00	400.26	137.18	114.34	0.00	0.00	0.00	270.54	0.00	0.00	0.00	270.54
	Sub-total	629.47	3.00	0.33	0.00	632.80	233.18	174.40	0.00	0.00	0.00	494.32	39.97	0.00	0.00	534.29
XI	Zamboanga del Norte	0.00	0.00	0.00	0.00	0.00	3.48	43.86	0.88	0.00	0.00	48.02	166.19	0.00	0.00	214.47
	Zamboanga del Sur	105.60	215.73	1.00	0.00	322.33	18.78	42.45	1.01	0.00	0.00	59.75	10.46	0.00	0.00	69.40
	Sub-total	105.60	215.73	1.00	0.00	322.33	22.26	86.31	1.89	0.00	0.00	107.77	176.65	0.00	0.00	284.45
	Bukidnon	123.56	59.86	0.00	0.00	183.42	13.43	59.09	0.00	0.00	0.00	72.52	2.31	0.00	0.00	137.91
XII	Cagayan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.04	13.06	0.00	0.00	63.10
	Misamis Occidental	242.99	0.00	0.00	0.00	242.99	0.00	0.00	0.00	0.00	0.00	132.89	0.00	0.36	0.00	133.25
	Misamis Oriental	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	242.99	0.00	0.10	0.00	243.09	0.00	0.00	0.00	0.00	0.00	132.89	0.00	0.36	0.00	133.25
XIII	Davao del Norte	106.16	59.86	0.10	0.00	166.02	13.43	59.09	0.00	0.00	0.00	151.24	58.70	0.36	0.00	210.30
	Davao del Sur	40.16	3.51	0.00	0.00	43.67	0.00	0.00	0.00	0.00	0.00	47.84	0.00	0.00	0.00	47.84
	Davao Oriental	0.00	0.00	0.00	0.00	0.00	29.47	0.00	0.00	0.00	0.00	11.08	83.65	0.00	0.00	94.73
	Sub-total	146.32	63.37	0.10	0.00	209.69	13.43	59.09	0.00	0.00	0.00	169.16	61.63	0.36	0.00	215.07
XIV	South Cotabato	107.27	8.36	0.00	0.00	115.63	0.00	0.00	0.00	0.00	0.00	25.01	0.00	0.00	0.00	25.01
	Sarangani	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	133.89	0.00	0.00	0.00	133.89
	Davao City	70.19	14.86	0.00	0.00	85.05	78.00	0.00	0.00	0.00	0.00	90.42	0.00	0.00	0.00	180.42
	Sub-total	177.46	23.22	0.00	0.00	200.68	78.00	0.00	0.00	0.00	0.00	125.41	90.42	0.00	0.00	215.83
XV	Lanao del Norte	124.20	30.33	2.20	6.42	163.15	22.10	22.10	0.00	0.00	0.00	73.91	284.22	3.69	78.36	406.56
	Lanao del Sur	0.00	0.00	0.00	0.00	0.00	119.20	0.30	3.88	0.00	0.00	74.61	29.06	2.70	0.00	106.36
	North Cotabato	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.73	120.21	0.00	7.00	154.94
	Sub-total	124.20	30.33	2.20	6.42	163.15	121.30	22.40	3.88	0.00	0.00	175.42	243.27	2.70	7.00	263.30
XVI	Agusan del Norte	119.21	120.74	0.00	0.00	239.95	0.00	0.00	0.00	0.00	0.00	0.00	4.19	0.00	0.00	4.19
	Agusan del Sur	38.03	0.00	0.00	0.00	38.03	12.15	78.87	0.00	0.00	0.00	91.02	0.00	0.00	0.00	129.04
	Surigao del Norte	54.30	0.00	0.00	0.00	54.30	0.00	0.00	0.00	0.00	0.00	19.90	41.99	1.71	0.00	63.50
	Surigao del Sur	0.00	0.00	0.00	0.00	0.00	11.07	68.57	1.03	0.00	0.00	41.26	268.89	3.02	0.00	313.17
ARMM	Sub-total	308.85	140.74	0.00	0.00	449.59	23.22	147.45	1.03	0.00	0.00	61.16	314.96	4.74	0.00	630.86
	Lanao del Sur	35.10	19.90	4.40	0.00	59.40	34.75	30.50	0.00	0.00	0.00	83.25	28.25	0.00	0.00	111.50
	Magillandao	115.85	0.00	0.00	0.00	115.85	0.00	0.00	0.00	0.00	0.00	24.08	59.81	0.00	0.00	83.89
	Sub-total	150.95	19.90	4.40	0.00	175.25	34.75	30.50	0.00	0.00	0.00	107.33	88.06	0.00	0.00	205.39
Study Area Total		2765.02	585.01	179.45	21.52	3551.01	669.43	641.68	20.03	41.01	1372.15	3137.99	2342.05	77.01	159.36	5716.41

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Road Length Summary by Pavement Type by Road Functional Classification**

Region	Province	Arterial Road					National Secondary					Total		
		Paved	Unpaved	UIC	Impassable	Total	Paved	Unpaved	UIC	Impassable	Total	Paved	Unpaved	Total
IV-B	Mandauque	93.31	33.41	2.38	0.00	126.70	6.39	78.48	0.00	0.00	82.86	95.69	109.89	211.96
	Occidental Mindoro	44.23	193.43	1.75	17.66	257.06	1.37	97.00	0.19	12.30	110.88	45.60	290.42	367.94
	Oriental Mindoro	148.49	126.59	0.76	9.44	285.28	8.31	5.24	0.00	0.00	13.55	158.80	131.83	298.82
	Palawan	205.15	332.55	0.00	0.00	537.70	5.75	119.78	0.00	0.00	125.53	210.50	432.33	663.23
	Romblon	55.42	69.53	0.15	0.00	125.10	13.35	135.29	0.00	0.00	148.65	66.77	204.62	273.74
<b>Sub-total</b>		<b>548.60</b>	<b>745.51</b>	<b>6.02</b>	<b>27.10</b>	<b>1334.23</b>	<b>35.17</b>	<b>433.78</b>	<b>0.19</b>	<b>12.33</b>	<b>481.47</b>	<b>481.76</b>	<b>1189.29</b>	<b>1815.70</b>
V	Capanduran	36.06	163.32	2.36	0.00	201.74	3.16	40.13	0.00	0.00	43.29	42.22	203.44	245.00
	Masbate	102.00	15.79	0.71	0.00	121.49	19.33	126.45	8.02	20.40	174.21	121.33	145.24	295.70
	<b>Sub-total</b>	<b>141.06</b>	<b>182.10</b>	<b>3.07</b>	<b>0.00</b>	<b>328.23</b>	<b>22.49</b>	<b>166.58</b>	<b>8.02</b>	<b>20.40</b>	<b>217.49</b>	<b>163.55</b>	<b>348.68</b>	<b>540.73</b>
VI	Allen	77.16	27.36	0.00	0.00	104.54	25.10	13.44	0.00	0.00	38.53	102.26	40.82	143.28
	Artigue	117.63	61.44	0.00	0.00	179.07	28.08	131.27	0.00	2.33	161.69	139.72	192.71	334.76
	Capiz	209.79	113.97	1.96	0.00	325.71	0.00	0.00	0.00	0.00	209.79	113.97	113.97	325.71
	Iloilo	279.01	63.40	0.00	0.00	342.41	216.88	245.89	8.82	0.00	473.59	497.90	309.29	816.00
	Guimaras	16.93	45.67	0.00	0.00	62.60	30.88	55.09	0.00	0.00	83.97	47.82	81.82	129.64
<b>Sub-total</b>		<b>656.45</b>	<b>245.84</b>	<b>37.03</b>	<b>0.00</b>	<b>904.32</b>	<b>207.80</b>	<b>239.04</b>	<b>2.48</b>	<b>0.00</b>	<b>449.11</b>	<b>564.05</b>	<b>333.86</b>	<b>937.40</b>
VII	Negros Occidental	358.45	84.84	0.00	0.00	443.29	207.80	239.04	2.48	0.00	449.11	564.05	333.86	937.40
	Iloilo City	3.55	0.00	0.00	0.00	3.55	24.86	0.65	0.00	0.00	25.52	28.41	0.65	29.06
	<b>Sub-total</b>	<b>1054.52</b>	<b>348.77</b>	<b>38.99</b>	<b>0.00</b>	<b>1483.27</b>	<b>638.41</b>	<b>638.38</b>	<b>11.29</b>	<b>2.33</b>	<b>1232.41</b>	<b>1593.93</b>	<b>1073.14</b>	<b>2775.93</b>
VIII	Bacolod	220.80	113.70	4.07	0.00	338.56	54.93	152.64	4.91	25.18	247.71	275.78	276.34	596.27
	Cebu	430.83	178.54	2.17	0.00	611.54	72.17	44.81	3.50	1.08	121.56	503.00	224.35	724.10
	Negros Oriental	332.44	17.57	10.69	0.00	360.71	2.46	17.64	0.00	0.00	20.12	334.92	35.21	369.82
	Surigao	71.33	0.29	3.43	0.00	75.15	0.00	0.00	0.00	0.00	0.00	71.34	0.29	75.15
	<b>Sub-total</b>	<b>1055.42</b>	<b>311.10</b>	<b>20.32</b>	<b>0.00</b>	<b>1366.54</b>	<b>129.52</b>	<b>225.08</b>	<b>8.41</b>	<b>28.26</b>	<b>389.38</b>	<b>1185.03</b>	<b>536.19</b>	<b>1776.32</b>
IX	Leyte	383.23	43.31	0.83	12.86	440.25	144.30	276.14	28.13	0.00	448.87	527.53	310.44	889.12
	Southern Leyte	114.23	0.25	18.46	0.00	132.94	23.13	71.99	0.06	0.00	103.80	141.36	27.55	240.74
	Biliran	0.00	0.00	0.00	0.00	0.00	31.72	98.30	2.46	0.44	132.91	31.72	98.30	132.91
	Eastern Samar	165.91	83.16	0.00	0.00	249.06	33.44	24.28	0.00	0.00	57.69	199.35	107.41	306.76
	Northern Samar	125.64	36.62	0.00	0.00	162.26	0.00	0.00	0.00	0.00	125.64	36.62	0.00	162.26
<b>Sub-total</b>		<b>1059.08</b>	<b>163.35</b>	<b>19.30</b>	<b>13.14</b>	<b>1235.86</b>	<b>207.80</b>	<b>239.04</b>	<b>2.48</b>	<b>0.00</b>	<b>449.11</b>	<b>564.05</b>	<b>333.86</b>	<b>937.40</b>
X	Zamboanga del Norte	212.22	205.85	0.85	64.00	482.95	51.02	0.00	0.00	0.00	31.02	243.24	209.85	517.87
	Zamboanga del Sur	180.42	288.66	2.01	0.00	471.09	32.36	32.36	1.21	0.00	132.47	481.84	810.87	1293.91
	<b>Sub-total</b>	<b>393.04</b>	<b>494.51</b>	<b>2.89</b>	<b>64.00</b>	<b>954.04</b>	<b>83.38</b>	<b>32.36</b>	<b>1.21</b>	<b>0.00</b>	<b>132.47</b>	<b>481.84</b>	<b>810.87</b>	<b>1293.91</b>
XI	Bukidnon	139.30	161.89	0.00	0.00	301.19	37.67	203.82	1.28	2.31	335.03	178.97	455.52	835.02
	Davao del Sur	90.81	174.15	3.69	0.00	268.65	6.76	67.09	0.00	0.00	73.85	99.58	241.23	344.50
	Davao Oriental	132.28	6.36	18.35	0.00	156.99	28.14	29.11	0.00	11.28	66.52	158.41	35.47	223.50
	South Cotabato	133.66	80.42	38.93	14.86	247.84	0.00	4.82	0.00	27.58	32.80	133.66	65.24	280.44
	Sarangani	70.19	0.00	78.00	0.00	148.19	17.29	20.81	0.00	0.00	37.89	37.48	20.61	186.08
<b>Sub-total</b>		<b>565.22</b>	<b>347.65</b>	<b>64.73</b>	<b>14.86</b>	<b>927.48</b>	<b>137.51</b>	<b>306.58</b>	<b>2.00</b>	<b>23.31</b>	<b>527.27</b>	<b>702.74</b>	<b>561.10</b>	<b>1284.59</b>
XII	Davao del Norte	153.59	0.00	0.00	0.00	153.59	90.07	115.43	3.78	0.00	199.28	233.66	115.43	352.88
	Davao del Sur	81.54	72.16	27.16	61.50	242.36	2.36	52.99	0.00	14.81	70.15	83.90	125.15	277.16
	Davao Oriental	90.81	174.15	3.69	0.00	268.65	6.76	67.09	0.00	0.00	73.85	99.58	241.23	344.50
	South Cotabato	132.28	6.36	18.35	0.00	156.99	28.14	29.11	0.00	11.28	66.52	158.41	35.47	223.50
	Sarangani	70.19	0.00	78.00	0.00	148.19	17.29	20.81	0.00	0.00	37.89	37.48	20.61	186.08
<b>Sub-total</b>		<b>528.07</b>	<b>316.61</b>	<b>109.19</b>	<b>76.35</b>	<b>1020.12</b>	<b>137.43</b>	<b>240.04</b>	<b>3.78</b>	<b>14.81</b>	<b>482.51</b>	<b>561.10</b>	<b>561.10</b>	<b>1284.59</b>
XIII	Lanao del Norte	146.30	30.33	2.20	6.42	185.25	10.10	86.55	0.00	0.00	76.65	156.40	96.88	281.80
	North Cotabato	193.80	29.36	6.58	0.00	229.74	24.98	280.78	1.10	63.88	370.75	218.78	310.15	600.49
	Sultan Kudarat	54.86	120.21	0.00	7.00	182.07	14.10	13.20	0.00	0.00	27.30	68.76	133.41	209.17
	<b>Sub-total</b>	<b>394.96</b>	<b>179.90</b>	<b>8.78</b>	<b>13.42</b>	<b>667.96</b>	<b>49.18</b>	<b>300.54</b>	<b>1.10</b>	<b>63.88</b>	<b>474.70</b>	<b>443.94</b>	<b>540.44</b>	<b>1071.56</b>
ARMM	Agusan del Norte	119.21	4.19	1.52	0.00	124.92	23.90	59.07	0.00	28.66	196.62	143.11	63.26	224.55
	Agusan del Sur	148.13	78.87	0.00	0.00	227.05	37.62	43.97	0.00	0.00	51.59	185.80	122.85	308.64
	Sarangani	74.20	41.89	1.71	0.00	117.80	15.61	14.23	0.38	4.76	34.99	89.81	56.12	152.79
	Sultan Kudarat	52.33	337.45	4.05	15.36	405.21	3.13	5.78	0.00	1.28	10.20	55.46	34.25	419.41
	<b>Sub-total</b>	<b>393.92</b>	<b>462.41</b>	<b>7.29</b>	<b>15.36</b>	<b>871.99</b>	<b>80.25</b>	<b>123.67</b>	<b>0.38</b>	<b>32.70</b>	<b>236.40</b>	<b>474.18</b>	<b>585.47</b>	<b>1115.39</b>
ARMM	Lanao del Sur	158.10	78.55	4.40	6.50	247.55	34.25	34.25	0.00	0.00	34.45	153.30	112.80	282.00
	Maguidanao	148.66	59.81	0.00	0.00	208.47	10.59	20.05	0.00	9.17	39.81	159.25	79.86	248.28
	<b>Sub-total</b>	<b>306.76</b>	<b>138.36</b>	<b>4.40</b>	<b>6.50</b>	<b>456.02</b>	<b>44.84</b>	<b>54.30</b>	<b>0.00</b>	<b>9.17</b>	<b>74.26</b>	<b>317.55</b>	<b>192.66</b>	<b>530.28</b>
<b>Study Area Total</b>		<b>6572.44</b>	<b>3568.74</b>	<b>276.49</b>	<b>221.90</b>	<b>10639.57</b>	<b>1457.37</b>	<b>3230.66</b>	<b>76.05</b>	<b>224.19</b>	<b>4988.27</b>	<b>3029.81</b>	<b>6799.40</b>	<b>15627.84</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**National Road Length Summary by Pavement Condition**

Region	Province	Paved Road			Unpaved Road			Total				
		Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	UIC	Impassable	Total
IV-B	Marinduque	68.71	30.89	99.69	0.00	109.89	109.89	68.71	140.88	2.38	0.00	211.96
	Occidental Mindoro	26.10	3.82	29.92	186.82	48.33	235.15	212.92	52.16	1.94	29.99	297.00
	Oriental Mindoro	90.01	64.14	154.16	5.71	122.86	128.57	95.72	187.01	0.76	9.44	292.92
	Palawan	122.63	88.27	210.90	231.05	221.27	452.33	353.68	309.55	0.00	0.00	663.23
	Romblon	19.29	49.48	68.77	67.05	137.77	204.82	86.34	187.25	0.15	0.00	273.74
	Sub-total	326.74	236.71	563.45	490.63	640.13	1130.77	817.37	876.84	5.21	39.43	1738.86
V	Catanduanes	37.78	4.45	42.22	142.37	61.08	203.44	180.14	65.52	2.36	0.00	248.03
	Masbate	117.20	4.13	121.33	68.45	76.79	145.24	185.65	80.92	8.73	20.40	295.70
	Sub-total	154.97	8.58	163.55	210.81	137.87	348.68	365.79	146.44	11.10	20.40	543.73
VI	Aklan	79.49	22.77	102.26	0.00	40.82	40.82	79.49	63.58	0.00	0.00	143.08
	Antique	113.50	26.22	139.72	24.02	168.69	192.71	137.52	194.90	0.00	2.33	334.76
	Capiz	168.17	41.61	209.79	34.52	79.45	113.97	202.69	121.06	1.96	0.00	325.71
	Iloilo	374.46	123.44	497.90	53.27	256.02	309.29	427.73	379.45	8.82	0.00	816.00
	Guimaras	18.33	29.48	47.82	76.37	5.46	81.82	94.70	34.94	0.00	0.00	129.64
	Negros Occidental	495.84	68.41	564.05	91.62	242.25	333.88	587.27	310.66	39.50	0.00	937.43
	Iloilo City	28.08	0.33	28.41	0.28	0.37	0.65	28.36	0.70	0.00	0.00	29.06
	Sub-total	1277.68	312.25	1589.93	280.09	793.05	1073.14	1557.78	1105.30	50.28	2.33	2715.69
VII	Bohol	160.07	115.71	275.78	194.76	81.58	276.34	354.83	197.29	8.98	25.18	586.27
	Cebu	387.77	79.26	467.02	44.99	127.98	172.98	432.76	207.24	5.67	1.08	646.75
	Negros Oriental	317.84	17.08	334.92	0.64	34.57	35.21	318.48	51.65	10.69	0.00	380.82
	Siquijor	68.09	3.25	71.34	0.29	0.00	0.29	68.39	3.25	3.49	0.00	75.13
	Sub-total	933.77	215.28	1149.06	240.68	244.13	484.82	1174.46	459.42	28.83	26.26	1688.97
VIII	Leyte	505.93	21.60	527.53	244.27	75.17	319.44	750.20	96.78	28.97	13.18	889.12
	Southern Leyte	137.82	3.54	141.36	10.80	61.03	71.83	148.63	64.57	27.55	0.00	240.74
	Biliran	31.13	0.59	31.72	58.23	40.07	98.30	89.36	40.65	2.46	0.44	132.91
	Eastern Samar	198.17	1.18	199.35	21.46	85.95	107.41	219.62	87.13	0.00	0.00	306.76
	Northern Samar	111.59	14.04	125.64	0.00	36.62	36.62	111.59	50.66	0.00	0.00	162.26
	Western Samar	215.94	50.97	266.91	9.13	15.68	24.82	225.07	66.65	0.00	6.26	297.98
	Sub-total	1260.58	91.92	1292.50	343.90	314.52	658.42	1544.48	406.44	58.97	19.88	2029.76
IX	Zamboanga del Norte	237.65	5.59	243.24	79.33	67.02	146.35	316.98	72.60	0.88	0.00	390.47
	Zamboanga del Sur	181.60	57.11	238.71	107.05	193.97	301.02	288.65	251.06	3.21	0.00	542.94
	Sub-total	419.25	62.70	481.94	186.38	260.98	447.37	605.63	323.68	4.09	0.00	933.41
X	Bukidnon	161.23	15.73	176.97	241.70	213.82	455.52	402.93	229.55	1.23	2.31	636.02
	Comiguin	27.18	22.87	50.04	0.45	13.51	13.96	27.62	36.38	0.00	0.00	64.00
	Misamis Occidental	168.37	1.28	169.65	3.43	34.89	38.32	171.80	36.17	0.36	0.00	208.33
	Misamis Oriental	292.29	13.79	306.08	5.07	48.23	53.30	297.36	62.01	0.86	0.00	360.24
	Sub-total	649.06	53.67	702.74	250.65	310.45	561.10	899.71	364.12	2.45	2.31	1268.59
XI	Davao del Norte	182.69	50.97	233.66	62.64	52.79	115.43	245.34	103.76	3.78	0.00	352.88
	Davao del Sur	58.48	25.42	83.90	77.18	47.97	125.15	135.66	73.39	27.16	76.31	312.52
	Davao Oriental	79.70	19.88	99.58	27.06	214.17	241.23	106.76	234.05	3.69	0.00	344.50
	South Cotabato	158.41	0.00	158.41	30.03	5.43	35.47	188.45	5.43	18.35	11.28	223.50
	Sarangani	133.66	0.00	133.66	36.64	28.60	65.24	170.30	28.60	38.69	42.85	280.44
	Davao City	83.74	3.73	87.48	10.88	9.73	20.61	94.62	13.46	78.00	0.00	186.08
	Sub-total	696.69	100.00	796.69	244.44	358.69	603.13	941.13	458.69	169.68	130.43	1699.92
XII	Lanao del Norte	151.80	5.70	157.50	25.80	82.28	107.88	177.40	87.98	2.20	6.42	274.00
	North Cotabato	192.34	26.44	218.78	212.78	97.37	310.15	405.12	123.81	7.88	63.88	600.49
	Sultan Kudarat	62.11	8.65	68.76	102.41	31.00	133.41	164.52	37.65	0.00	7.00	209.17
	Sub-total	406.25	38.79	445.04	340.79	210.65	551.44	747.04	249.44	9.88	77.30	1083.66
XIII	Agusan del Norte	134.06	9.04	143.11	11.28	51.98	63.26	145.34	61.02	1.52	26.66	234.55
	Agusan del Sur	89.78	96.01	185.80	59.45	63.40	122.85	149.23	159.41	0.00	0.00	308.64
	Surigao del Norte	88.46	1.35	89.81	8.19	47.93	56.12	96.65	49.28	2.09	4.76	152.79
	Surigao del Sur	51.89	3.57	55.46	48.08	295.17	343.25	99.97	298.73	4.05	16.56	419.41
	Sub-total	364.20	109.97	474.18	127.00	458.47	585.47	491.20	568.45	7.67	48.07	1115.39
ARMM	Lanao del Sur	151.30	0.00	151.30	4.00	108.80	112.80	155.30	108.80	4.40	6.50	275.00
	Maguindanao	122.05	37.20	159.25	17.71	62.15	79.86	139.76	99.35	0.00	9.17	248.28
	Sub-total	273.35	37.20	310.55	21.71	170.95	192.66	295.06	208.15	4.40	15.67	523.28
Study Area Total		6702.56	1267.07	7969.62	2737.09	3899.91	6637.00	9439.65	6166.98	352.55	382.09	16341.26

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Surveyed Provincial Road Length Summary by Pavement Condition**

Region	Province	Paved Road			Unpaved Road			Total				
		Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	U/C	Impassable	Total
IV-B	Marinduque	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Occidental Mindoro	19.54	1.98	21.52	97.52	12.84	110.35	117.06	14.82	0.00	0.00	131.88
	Oriental Mindoro	27.19	7.13	34.31	9.72	70.33	80.05	36.91	77.46	1.84	0.00	116.21
	Palawan	0.00	0.00	0.00	39.17	63.85	103.02	39.17	63.85	0.00	38.34	141.35
	Romblon	2.57	1.23	3.79	6.93	41.32	48.25	9.50	42.54	0.00	0.00	52.04
	Sub-total	49.29	10.34	59.63	153.34	188.33	341.67	202.64	198.67	1.84	38.34	441.48
V	Catanduanes	7.60	0.60	8.20	22.30	98.30	120.60	29.90	98.90	1.20	0.00	130.00
	Masbata	2.74	1.56	4.30	25.11	51.65	76.76	27.85	53.21	0.00	25.28	106.33
	Sub-total	10.34	2.16	12.50	47.41	149.95	197.36	57.75	152.11	1.20	25.28	235.33
VI	Aklan	17.45	1.31	18.75	0.23	93.16	93.39	17.68	94.47	0.00	0.00	112.15
	Antique	1.17	0.42	1.59	0.61	14.65	15.25	1.77	15.07	0.00	0.00	16.84
	Capiz	8.82	5.93	14.74	14.09	46.60	60.70	22.91	52.53	3.36	0.00	78.80
	Iloilo	26.68	18.57	45.25	0.00	77.72	77.72	28.68	96.29	3.73	7.46	134.17
	Guimaras	7.51	0.00	7.51	14.88	29.25	44.13	22.39	29.25	0.00	0.00	51.64
	Negros Occidental	44.75	6.14	50.89	18.55	67.01	85.57	63.30	73.15	0.00	0.40	136.85
	Iloilo City	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total	106.37	32.36	138.73	48.37	328.39	376.76	154.74	360.75	7.09	7.86	530.44	
VII	Bohol	10.77	0.00	10.77	58.48	82.93	141.42	69.26	82.93	3.97	0.00	156.16
	Cebu	46.18	53.57	99.75	36.66	94.08	130.73	82.83	147.65	1.40	75.73	307.61
	Negros Oriental	29.50	2.18	31.68	18.22	134.28	152.51	47.72	136.47	1.19	0.00	185.38
	Siquijor	7.57	2.96	10.52	0.58	24.59	25.17	8.15	27.55	0.00	0.00	35.70
	Sub-total	94.02	58.71	152.73	113.94	335.89	449.83	207.95	354.60	6.56	75.73	684.84
VIII	Leyte	21.95	2.46	24.40	34.27	41.78	76.05	56.22	44.24	0.00	27.69	128.15
	Southern Leyte	2.90	0.00	2.90	2.55	19.79	22.34	5.45	19.79	0.00	0.00	25.24
	Biliran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eastern Samar	1.72	0.00	1.72	0.20	9.23	9.43	1.91	9.23	0.00	0.00	11.15
	Northern Samar	1.09	2.11	3.20	0.00	61.98	61.98	1.09	64.10	2.85	56.88	124.92
	Western Samar	18.61	1.23	19.84	11.44	82.00	93.44	30.05	83.22	0.00	16.01	129.28
	Sub-total	46.26	5.79	52.06	48.46	214.78	263.25	94.73	220.58	2.85	100.58	418.73
IX	Zamboanga del Norte	2.24	0.80	3.04	38.53	154.76	193.29	40.76	155.56	0.00	99.50	295.82
	Zamboanga del Sur	7.44	4.17	11.60	53.91	201.74	255.65	61.35	205.90	0.00	25.04	292.30
	Sub-total	9.67	4.97	14.64	92.44	356.50	448.94	102.11	361.46	0.00	124.54	588.12
X	Bukidnon	1.54	0.00	1.54	41.21	122.41	163.62	42.75	122.41	0.00	5.00	170.16
	Camiguin	6.73	1.44	8.17	0.94	27.62	28.56	7.67	29.06	0.00	14.85	51.58
	Misamis Occidental	4.05	1.85	5.89	1.79	95.12	96.91	5.84	96.97	0.00	0.00	102.81
	Misamis Oriental	16.25	3.18	19.42	5.95	174.20	180.14	22.19	177.38	0.41	16.91	216.89
	Sub-total	28.56	6.46	35.02	49.89	419.35	469.24	76.45	425.81	0.41	36.76	541.43
XI	Davao del Norte	4.97	0.00	4.97	145.29	159.18	304.48	150.27	159.18	0.00	30.44	339.89
	Davao del Sur	18.96	0.00	18.96	14.25	20.71	34.95	33.21	20.71	0.00	6.25	60.17
	Davao Oriental	0.00	0.00	0.00	10.00	39.00	49.00	10.00	39.00	0.00	0.00	49.00
	South Cotabato	1.95	0.00	1.95	15.19	26.14	41.33	17.14	26.14	0.00	0.00	43.28
	Sarangani	2.20	0.00	2.20	3.23	56.43	59.66	5.43	56.43	10.25	17.58	89.69
	Davao City	13.94	4.89	18.82	25.27	77.50	102.77	39.21	82.39	3.60	9.18	134.37
	Sub-total	42.02	4.89	46.91	213.23	378.95	592.18	256.25	363.84	13.85	63.45	716.39
XII	Lanao del Norte	7.77	2.15	9.92	16.55	118.75	135.30	24.32	120.90	0.20	38.80	164.22
	North Cotabato	2.40	0.00	2.40	23.38	103.20	126.58	25.78	103.20	0.00	20.70	149.68
	Sultan Kudarat	0.50	0.20	0.70	302.53	126.48	429.00	303.03	126.68	0.00	2.00	431.70
	Sub-total	10.67	2.35	13.02	342.46	348.43	670.88	353.13	350.78	0.20	61.50	765.60
XIII	Agusan del Norte	12.19	0.00	12.19	21.61	34.99	56.60	33.80	34.99	0.00	19.52	88.30
	Agusan del Sur	2.36	0.51	2.87	141.53	115.04	256.57	143.89	115.55	8.46	38.38	306.28
	Surigao del Norte	14.71	0.00	14.71	20.81	42.22	62.83	35.32	42.22	2.95	19.99	100.48
	Surigao del Sur	0.00	0.00	0.00	2.05	34.07	36.12	2.05	34.07	0.00	5.71	41.83
	Sub-total	29.25	0.51	29.76	185.80	226.32	412.12	215.05	226.83	11.41	83.60	536.89
ARMM	Lanao del Sur	12.00	0.00	12.00	0.00	119.53	119.53	12.00	119.53	0.00	31.20	162.73
	Maguindanao	13.76	2.19	15.95	113.47	50.15	163.62	127.23	52.34	0.00	117.77	297.34
	Sub-total	25.76	2.19	27.95	113.47	169.68	283.15	139.23	171.87	0.00	148.97	460.07
Study Area Total		452.23	130.72	582.94	1408.00	3116.57	4525.37	1861.03	3247.29	45.40	766.61	5920.33

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**North-South Backbone Length Summary by Pavement Condition**

Region	Province	Paved Road			Unpaved Road			Total				
		Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	U/C	Impassable	Total
IV-B	Marinduque	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Occidental Mindoro	3.96	1.98	5.95	12.41	8.23	18.64	16.38	8.21	0.66	5.66	30.92
	Oriental Mindoro	62.96	60.48	123.43	0.42	81.09	81.51	63.39	141.55	0.00	9.44	214.38
	Palawan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Romblon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>66.93</b>	<b>62.45</b>	<b>129.38</b>	<b>12.84</b>	<b>87.32</b>	<b>100.16</b>	<b>79.77</b>	<b>149.77</b>	<b>0.66</b>	<b>15.10</b>	<b>245.30</b>
V	Catanduanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Masbate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
VI	Aklan	27.99	3.27	31.26	0.00	24.63	24.63	27.99	27.90	0.00	0.00	55.89
	Antique	0.09	0.00	0.09	0.00	6.39	6.39	0.09	6.39	0.00	0.00	6.48
	Capiz	18.66	25.10	43.76	0.00	5.22	5.22	18.66	30.32	0.00	0.00	48.98
	Iloilo	36.25	26.92	63.16	0.65	0.00	0.65	36.90	28.92	0.00	0.00	63.82
	Guimaras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Negros Occidental	289.77	8.81	298.58	0.00	11.88	11.88	289.77	20.69	8.04	0.00	316.50
	Iloilo City	3.55	0.00	3.55	0.00	0.00	0.00	3.55	0.00	0.00	0.00	3.55
	<b>Sub-total</b>	<b>376.31</b>	<b>64.09</b>	<b>440.40</b>	<b>0.65</b>	<b>48.13</b>	<b>48.78</b>	<b>376.96</b>	<b>112.22</b>	<b>8.04</b>	<b>0.00</b>	<b>495.22</b>
VII	Bohol	60.49	54.18	114.68	70.87	3.93	74.80	131.37	58.11	0.00	0.00	189.48
	Cebu	158.01	14.31	172.32	9.95	7.93	17.89	167.97	22.24	0.00	0.00	190.21
	Negros Oriental	95.68	8.37	104.05	0.00	0.00	0.00	95.68	8.37	0.50	0.00	104.54
	Siquijor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>314.19</b>	<b>76.86</b>	<b>391.05</b>	<b>80.83</b>	<b>11.86</b>	<b>92.69</b>	<b>395.02</b>	<b>88.72</b>	<b>0.50</b>	<b>0.00</b>	<b>484.23</b>
VIII	Leyte	104.44	7.61	112.05	0.00	2.41	2.41	104.44	10.02	0.83	0.00	115.29
	Southern Leyte	49.10	2.85	51.95	0.00	0.25	0.25	49.10	3.09	0.00	0.00	52.19
	Biliran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eastern Samar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Northern Samar	14.93	14.04	28.97	0.00	0.00	0.00	14.93	14.04	0.00	0.00	28.97
	Western Samar	152.70	50.97	203.67	0.00	0.15	0.15	152.70	51.11	0.00	0.00	203.81
	<b>Sub-total</b>	<b>321.16</b>	<b>75.47</b>	<b>396.63</b>	<b>0.00</b>	<b>2.80</b>	<b>2.80</b>	<b>321.16</b>	<b>78.27</b>	<b>0.83</b>	<b>0.00</b>	<b>400.26</b>
IX	Zamboanga del Norte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Zamboanga del Sur	78.56	27.04	105.60	68.00	147.74	215.73	146.55	174.78	1.00	0.00	322.33
	<b>Sub-total</b>	<b>78.56</b>	<b>27.04</b>	<b>105.60</b>	<b>68.00</b>	<b>147.74</b>	<b>215.73</b>	<b>146.55</b>	<b>174.78</b>	<b>1.00</b>	<b>0.00</b>	<b>322.33</b>
X	Bukidnon	119.77	3.79	123.56	50.64	9.23	59.86	170.41	13.02	0.00	0.00	183.42
	Camiguin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Occidental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Oriental	242.99	0.00	242.99	0.00	0.00	0.00	242.99	0.00	0.10	0.00	243.08
	<b>Sub-total</b>	<b>362.76</b>	<b>3.79</b>	<b>366.55</b>	<b>50.64</b>	<b>9.23</b>	<b>59.86</b>	<b>413.39</b>	<b>13.02</b>	<b>0.10</b>	<b>0.00</b>	<b>426.51</b>
XI	Davao del Norte	55.19	50.97	106.16	0.00	0.00	0.00	55.19	50.97	0.00	0.00	106.16
	Davao del Sur	35.77	4.41	40.18	8.51	0.00	8.51	44.23	4.41	27.16	0.00	75.85
	Davao Oriental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	South Cotabato	107.27	0.00	107.27	6.36	0.00	6.36	113.62	0.00	18.35	0.00	131.97
	Sarangani	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.69	0.00	38.69
	Davao City	70.19	0.00	70.19	0.00	0.00	0.00	70.19	0.00	78.00	0.00	148.19
	<b>Sub-total</b>	<b>268.41</b>	<b>55.38</b>	<b>323.79</b>	<b>14.88</b>	<b>0.00</b>	<b>14.88</b>	<b>283.28</b>	<b>55.38</b>	<b>162.20</b>	<b>0.00</b>	<b>500.86</b>
XII	Lanao del Norte	121.00	3.20	124.20	12.60	17.73	30.33			2.20	6.42	8.62
	North Cotabato	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
	Sultan Kudarat	23.88	3.05	26.93	0.00	0.00	0.00			0.00	0.00	0.00
	<b>Sub-total</b>	<b>144.88</b>	<b>6.25</b>	<b>151.13</b>	<b>12.60</b>	<b>17.73</b>	<b>30.33</b>	<b>0.00</b>	<b>0.00</b>	<b>2.20</b>	<b>6.42</b>	<b>8.62</b>
XIII	Agusan del Norte	116.78	2.43	119.21	0.00	0.00	0.00	116.78	2.43	1.52	0.00	120.74
	Agusan del Sur	40.33	95.71	136.03	0.00	0.00	0.00	40.33	95.71	0.00	0.00	136.03
	Surigao del Norte	52.95	1.35	54.30	0.00	0.00	0.00	52.95	1.35	0.00	0.00	54.30
	Surigao del Sur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>210.07</b>	<b>99.48</b>	<b>309.55</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>210.07</b>	<b>99.48</b>	<b>1.52</b>	<b>0.00</b>	<b>311.07</b>
ARMM	Lanao del Sur	35.10	0.00	35.10	0.00	19.80	19.80			4.40	0.00	4.40
	Maguindanao	82.11	33.74	115.85	0.00	0.00	0.00			0.00	0.00	0.00
	<b>Sub-total</b>	<b>117.21</b>	<b>33.74</b>	<b>150.95</b>	<b>0.00</b>	<b>19.80</b>	<b>19.80</b>	<b>0.00</b>	<b>0.00</b>	<b>4.40</b>	<b>0.00</b>	<b>4.40</b>
<b>Study Area Total</b>		<b>2260.48</b>	<b>504.54</b>	<b>2765.02</b>	<b>240.41</b>	<b>344.60</b>	<b>585.01</b>	<b>2226.20</b>	<b>771.63</b>	<b>179.45</b>	<b>21.52</b>	<b>3198.80</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**East-West Lateral Length Summary by Pavement Condition**

Region	Province	Paved Road			Unpaved Road			Total				
		Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	UIC	Impassable	Total
IV-B	Marinduque	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Occidental Mindoro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Oriental Mindoro	2.93	0.19	3.12	0.00	14.54	14.54	2.93	14.73	0.00	0.00	17.65
	Palawan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Romblon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	2.93	0.19	3.12	0.00	14.54	14.54	2.93	14.73	0.00	0.00	17.65
V	Calanduanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Masbate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VI	Aklan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Antique	1.12	0.00	1.12	0.00	12.74	12.74	1.12	12.74	0.00	0.00	13.85
	Capiz	68.58	9.33	77.91	0.00	14.27	14.27	68.58	23.60	1.95	0.00	94.14
	Iloilo	22.63	10.64	33.26	2.15	60.60	62.74	24.77	71.23	0.00	0.00	95.01
	Guimaras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Negros Occidental	14.36	4.50	18.86	8.71	18.46	27.18	23.07	22.97	0.00	0.00	46.04
	Iloilo City	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	106.68	24.47	131.15	10.86	106.07	116.93	117.53	130.54	1.96	0.00	250.04
VII	Bohol	24.08	22.49	46.56	27.77	0.84	28.61	51.85	23.33	2.57	0.00	77.75
	Cebu	21.30	1.40	22.70	1.60	32.20	33.80	22.90	33.60	0.00	0.00	56.50
	Negros Oriental	10.64	0.00	10.64	0.20	9.80	10.00	10.84	9.80	8.71	0.00	29.35
	Siquijor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	56.02	23.89	79.91	29.57	42.84	72.41	85.59	66.73	11.28	0.00	163.60
VIII	Leyte	34.37	2.01	36.38	14.63	1.03	15.66	49.00	3.04	0.00	12.88	64.93
	Southern Leyte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Biliran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eastern Samar	32.50	0.00	32.50	4.96	38.23	43.19	37.46	38.23	0.00	0.00	75.69
	Northern Samar	5.88	0.00	5.88	0.00	36.62	36.62	5.88	36.62	0.00	0.00	42.50
	Western Samar	62.41	0.00	62.41	6.78	12.10	18.87	69.18	12.10	0.00	6.26	87.54
	Sub-total	135.16	2.01	137.18	28.37	87.98	114.34	161.53	89.99	0.00	19.14	270.65
IX	Zamboanga del Norte	3.48	0.00	3.48	41.41	2.25	43.66	44.88	2.25	0.88	0.00	48.02
	Zamboanga del Sur	6.23	10.05	16.28	12.01	30.45	42.46	18.24	40.50	1.01	0.00	59.75
	Sub-total	9.71	10.05	19.76	53.41	32.71	86.12	63.12	42.76	1.89	0.00	107.77
X	Bukidnon	13.43	0.00	13.43	37.82	21.27	59.09	51.25	21.27	0.00	0.00	72.52
	Camiguin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Occidental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Oriental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	13.43	0.00	13.43	37.82	21.27	59.09	51.25	21.27	0.00	0.00	72.52
XI	Davao del Norte	47.44	0.00	47.44	0.00	0.00	0.00	47.44	0.00	0.00	0.00	47.44
	Davao del Sur	8.46	21.01	29.47	0.00	0.00	0.00	8.46	21.01	0.00	0.00	29.47
	Davao Oriental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	South Cotabato	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sarangani	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Davao City	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	55.89	21.01	76.91	0.00	0.00	0.00	55.89	21.01	0.00	0.00	76.91
XII	Lanao del Norte	22.10	0.00	22.10	0.00	0.00	0.00			0.00	0.00	0.00
	North Cotabato	95.95	23.24	119.20	0.30	0.00	0.30			3.88	0.00	3.88
	Sultan Kudarat	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
	Sub-total	118.05	23.24	141.30	0.30	0.00	0.30	0.00	0.00	3.88	0.00	3.88
XIII	Agusan del Norte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Agusan del Sur	12.15	0.00	12.15	39.41	39.46	78.87	51.56	39.46	0.00	0.00	91.02
	Surigao del Norte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Surigao del Sur	11.07	0.00	11.07	7.38	61.19	68.57	18.45	61.19	1.03	15.38	96.04
	Sub-total	23.22	0.00	23.22	46.79	100.66	147.45	70.01	100.66	1.03	15.38	187.06
ARMM	Lanao del Sur	34.75	0.00	34.75	3.00	27.50	30.50			0.00	6.50	6.50
	Maguindanao	7.98	0.75	8.73	0.00	0.00	0.00			0.00	0.00	0.00
	Sub-total	42.73	0.75	43.48	3.00	27.50	30.50	0.00	0.00	0.00	6.50	6.50
Study Area Total		563.81	105.61	669.43	208.12	433.56	641.68	607.85	487.68	20.03	41.01	1156.58

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Summary of Lengths of Other Roads of Strategic Importance by Pavement Condition**

Region	Province	Paved Road			Unpaved Road			Total				
		Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	U/C	Impassable	Total
IV-B	Marinduque	64.89	28.41	93.31	0.00	33.41	33.41	64.89	61.83	2.38	0.00	129.10
	Occidental Mindoro	34.46	3.82	38.28	157.36	17.42	174.78	191.82	21.24	1.09	12.00	226.15
	Oriental Mindoro	19.78	2.17	21.95	0.14	30.40	30.54	19.92	32.57	0.76	0.00	53.24
	Palawan	116.88	88.27	205.15	143.42	188.13	332.55	260.30	277.40	0.00	0.00	537.70
	Romblon	12.79	42.63	55.42	41.94	27.59	69.53	54.73	70.22	0.15	0.00	125.10
	<b>Sub-total</b>	<b>248.80</b>	<b>165.31</b>	<b>414.11</b>	<b>342.87</b>	<b>287.94</b>	<b>640.81</b>	<b>591.67</b>	<b>463.25</b>	<b>4.38</b>	<b>12.00</b>	<b>1071.28</b>
V	Catanduanes	34.61	4.45	39.06	117.41	45.90	163.32	152.03	50.35	2.36	0.00	204.74
	Masbate	99.54	2.45	102.00	2.83	15.95	18.79	102.38	18.41	0.71	0.00	121.49
	<b>Sub-total</b>	<b>134.15</b>	<b>6.90</b>	<b>141.06</b>	<b>120.25</b>	<b>61.86</b>	<b>182.10</b>	<b>254.41</b>	<b>68.76</b>	<b>3.07</b>	<b>0.00</b>	<b>326.23</b>
VI	Aklan	26.40	19.50	45.90	0.00	2.75	2.75	26.40	22.25	0.00	0.00	48.66
	Antique	94.00	16.42	110.42	1.07	41.24	42.31	95.07	57.66	0.00	0.00	152.73
	Capiz	80.94	7.18	88.12	34.52	59.95	94.47	115.46	67.13	0.00	0.00	182.59
	Iloilo	146.71	35.87	182.59	0.00	0.00	0.00	146.71	35.87	0.00	0.00	182.59
	Guimaras	4.43	12.50	16.93	28.74	0.00	28.74	33.17	12.50	0.00	0.00	45.67
	Negros Occidental	21.14	17.87	39.01	0.54	55.24	55.79	21.68	73.11	30.99	0.00	125.78
	Iloilo City	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.11	30.99	0.00	125.78
	<b>Sub-total</b>	<b>373.62</b>	<b>109.35</b>	<b>482.97</b>	<b>64.87</b>	<b>189.18</b>	<b>254.06</b>	<b>438.56</b>	<b>268.53</b>	<b>30.99</b>	<b>0.00</b>	<b>738.02</b>
VII	Bohol	41.93	17.62	59.55	9.82	0.47	10.29	51.75	18.09	1.50	0.00	71.34
	Cebu	180.25	55.55	235.81	30.43	97.43	127.85	210.68	152.98	2.17	0.00	365.83
	Negros Oriental	209.04	8.71	217.75	0.45	7.13	7.57	209.48	15.84	1.49	0.00	226.81
	Siquor	68.09	3.25	71.34	0.29	0.00	0.29	68.39	3.25	3.49	0.00	75.13
	<b>Sub-total</b>	<b>499.32</b>	<b>85.14</b>	<b>584.46</b>	<b>40.99</b>	<b>105.02</b>	<b>146.00</b>	<b>540.30</b>	<b>190.16</b>	<b>8.54</b>	<b>0.00</b>	<b>739.10</b>
VIII	Leyte	226.06	6.74	232.80	20.92	4.32	25.24	246.97	13.06	0.00	0.00	260.03
	Southern Leyte	66.19	0.10	66.29	0.00	0.00	0.00	66.19	0.10	18.48	0.00	84.75
	Butuan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eastern Samar	132.23	1.18	133.40	16.50	23.47	39.97	148.72	24.65	0.00	0.00	173.37
	Northern Samar	90.79	0.00	90.79	0.00	0.00	0.00	90.79	0.00	0.00	0.00	90.79
	Western Samar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>515.26</b>	<b>10.02</b>	<b>525.27</b>	<b>37.41</b>	<b>27.79</b>	<b>65.20</b>	<b>552.67</b>	<b>37.81</b>	<b>18.48</b>	<b>0.00</b>	<b>609.94</b>
IX	Zamboanga del Norte	203.15	5.59	208.74	37.93	128.26	166.19	241.08	133.85	0.00	64.00	438.93
	Zamboanga del Sur	50.68	8.28	58.94	10.46	0.00	10.46	61.14	8.28	0.00	0.00	69.40
	<b>Sub-total</b>	<b>253.83</b>	<b>13.85</b>	<b>267.68</b>	<b>48.39</b>	<b>128.26</b>	<b>176.65</b>	<b>302.22</b>	<b>142.11</b>	<b>0.00</b>	<b>64.00</b>	<b>508.33</b>
X	Bukidnon	2.31	0.00	2.31	17.78	24.96	42.74	20.09	24.96	0.00	0.00	45.05
	Camiguin	27.18	22.87	50.04	0.45	13.51	13.96	27.62	36.38	0.00	0.00	64.00
	Misamis Occidental	132.89	0.00	132.89	0.00	0.00	0.00	132.89	0.00	0.36	0.00	133.25
	Misamis Oriental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>162.37</b>	<b>22.87</b>	<b>185.24</b>	<b>18.23</b>	<b>38.47</b>	<b>56.70</b>	<b>180.60</b>	<b>61.34</b>	<b>0.36</b>	<b>0.00</b>	<b>242.30</b>
XI	Davao del Norte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Davao del Sur	11.89	0.00	11.89	59.04	4.61	63.65	70.93	4.61	0.00	61.50	137.04
	Davao Oriental	71.14	19.67	90.81	18.20	157.95	176.15	87.34	177.62	3.69	0.00	268.65
	South Cotabato	25.01	0.00	25.01	0.00	0.00	0.00	25.01	0.00	0.00	0.00	25.01
	Sarangani	133.66	0.00	133.66	35.82	24.60	60.42	169.48	24.60	0.00	14.86	208.95
	Davao City	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
XII	<b>Sub-total</b>	<b>241.70</b>	<b>19.67</b>	<b>261.37</b>	<b>111.06</b>	<b>187.17</b>	<b>298.22</b>	<b>352.76</b>	<b>206.84</b>	<b>3.69</b>	<b>76.36</b>	<b>639.65</b>
	Lanao del Norte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	North Cotabato	74.61	0.00	74.61	29.06	0.00	29.06	0.00	0.00	2.70	0.00	2.70
	Sultan Kudarat	24.13	3.60	27.73	89.21	31.00	120.21	0.00	0.00	0.00	7.00	7.00
XIII	<b>Sub-total</b>	<b>98.73</b>	<b>3.60</b>	<b>102.33</b>	<b>118.27</b>	<b>31.00</b>	<b>149.27</b>	<b>0.00</b>	<b>0.00</b>	<b>2.70</b>	<b>7.00</b>	<b>9.70</b>
	Agusan del Norte	0.00	0.00	0.00	0.00	2.19	2.19	2.00	2.19	0.00	0.00	4.19
	Agusan del Sur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Surigao del Norte	19.90	0.00	19.90	8.00	33.89	41.89	27.89	33.89	1.71	0.00	63.50
	Surigao del Sur	38.62	2.64	41.26	40.39	228.49	268.88	79.01	231.13	3.02	0.00	313.17
ARMM	<b>Sub-total</b>	<b>58.52</b>	<b>2.64</b>	<b>61.16</b>	<b>50.39</b>	<b>264.57</b>	<b>314.96</b>	<b>108.90</b>	<b>267.21</b>	<b>4.74</b>	<b>0.00</b>	<b>380.86</b>
	Lanao del Sur	88.25	0.00	88.25	1.00	27.25	28.25	0.00	0.00	0.00	0.00	0.00
	Maguindanao	22.68	1.42	24.08	6.11	53.70	59.81	0.00	0.00	0.00	0.00	0.00
ARMM	<b>Sub-total</b>	<b>110.91</b>	<b>1.42</b>	<b>112.33</b>	<b>7.11</b>	<b>80.95</b>	<b>88.06</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>Study Area Total</b>	<b>2697.22</b>	<b>440.77</b>	<b>3137.99</b>	<b>969.83</b>	<b>1382.22</b>	<b>2342.05</b>	<b>3322.04</b>	<b>1706.01</b>	<b>77.01</b>	<b>159.36</b>	<b>5264.42</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**National Secondary Road Length Summary by Pavement Condition**

Region	Province	Paved Road			Unpaved Road			Total				
		Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	Total	Good / Fair	Bad / V. Bad	U/C	Impassable	Total
IV-B	Marinduque	3.81	2.57	6.39	0.00	76.48	76.48	3.81	79.05	0.00	0.00	82.86
	Occidental Mindoro	1.37	0.00	1.37	65.18	31.81	97.00	66.55	31.81	0.19	12.33	110.88
	Oriental Mindoro	6.42	1.89	8.31	5.14	0.09	5.24	11.56	1.98	0.00	0.00	13.55
	Palawan	5.75	0.00	5.75	87.63	32.14	119.78	93.39	32.14	0.00	0.00	125.53
	Romblon	6.50	6.85	13.35	25.11	110.19	135.29	31.61	117.04	0.00	0.00	148.65
	<b>Sub-total</b>	<b>23.85</b>	<b>11.31</b>	<b>35.17</b>	<b>183.07</b>	<b>250.72</b>	<b>433.78</b>	<b>206.92</b>	<b>262.03</b>	<b>0.19</b>	<b>12.33</b>	<b>481.47</b>
V	Calanduanes	3.16	0.00	3.16	24.95	15.17	40.13	28.11	15.17	0.00	0.00	43.29
	Masbate	17.65	1.68	19.33	65.61	60.84	126.45	83.27	62.51	8.02	20.40	174.21
	<b>Sub-total</b>	<b>20.82</b>	<b>1.68</b>	<b>22.49</b>	<b>90.57</b>	<b>76.01</b>	<b>166.58</b>	<b>111.38</b>	<b>77.69</b>	<b>8.02</b>	<b>20.40</b>	<b>217.49</b>
VI	Aklan	25.10	0.00	25.10	0.00	13.44	13.44	25.10	13.44	0.00	0.00	38.53
	Antique	18.29	9.80	28.08	22.95	108.32	131.27	41.24	118.12	0.00	2.33	161.69
	Capiz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Iloilo	168.87	50.01	218.88	50.48	195.42	245.89	219.35	245.43	8.82	0.00	473.59
	Guimaras	13.90	16.98	30.88	47.63	5.46	53.09	61.53	22.44	0.00	0.00	83.97
	Negros Occidental	170.38	37.22	207.60	82.37	155.67	238.04	252.75	193.89	2.48	0.00	449.11
	Iloilo City	24.54	0.33	24.86	0.28	0.37	0.65	24.82	0.70	0.00	0.00	25.52
	<b>Sub-total</b>	<b>421.08</b>	<b>114.34</b>	<b>535.41</b>	<b>203.70</b>	<b>479.67</b>	<b>683.38</b>	<b>624.78</b>	<b>594.01</b>	<b>11.29</b>	<b>2.33</b>	<b>1232.41</b>
VII	Bohol	33.57	21.41	54.98	88.30	76.34	164.64	119.87	97.75	4.91	25.18	247.71
	Cebu	41.96	30.21	72.17	24.75	20.05	44.81	66.71	50.26	3.50	1.08	121.56
	Negros Oriental	2.48	0.00	2.48	0.00	17.64	17.64	2.48	17.64	0.00	0.00	20.12
	Siquijor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub-total</b>	<b>78.00</b>	<b>51.62</b>	<b>129.62</b>	<b>111.05</b>	<b>114.04</b>	<b>225.09</b>	<b>189.05</b>	<b>165.66</b>	<b>8.41</b>	<b>26.26</b>	<b>389.38</b>
VIII	Leyte	141.00	3.24	144.30	208.72	67.41	276.14	349.79	70.65	28.13	0.29	448.87
	Southern Leyte	22.54	0.59	23.13	10.80	60.79	71.59	33.34	61.38	9.08	0.00	103.80
	Biliran	31.13	0.59	31.72	58.23	40.07	98.30	89.36	40.85	2.48	0.44	132.91
	Eastern Samar	33.44	0.00	33.44	0.00	24.26	24.26	33.44	24.26	0.00	0.00	57.69
	Northern Samar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Western Samar	0.83	0.00	0.83	2.36	3.44	5.79	3.19	3.44	0.00	0.00	6.63
	<b>Sub-total</b>	<b>229.00</b>	<b>4.42</b>	<b>233.42</b>	<b>280.12</b>	<b>195.96</b>	<b>476.07</b>	<b>509.12</b>	<b>200.38</b>	<b>39.67</b>	<b>0.74</b>	<b>749.90</b>
IX	Zamboanga del Norte	31.02	0.00	31.02	0.00	0.00	0.00	31.02	0.00	0.00	0.00	31.02
	Zamboanga del Sur	46.13	11.76	57.89	16.58	15.78	32.36	62.71	27.54	1.21	0.00	91.46
	<b>Sub-total</b>	<b>77.15</b>	<b>11.76</b>	<b>88.91</b>	<b>16.58</b>	<b>15.78</b>	<b>32.36</b>	<b>93.73</b>	<b>27.54</b>	<b>1.21</b>	<b>0.00</b>	<b>122.47</b>
X	Bukidnon	25.73	11.94	37.67	135.45	158.37	293.82	161.18	170.31	1.23	2.31	335.03
	Camiguin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Occidental	35.48	1.28	36.76	3.43	34.89	38.32	38.91	36.17	0.00	0.00	75.08
	Misamis Oriental	49.30	13.79	63.09	5.07	48.23	53.30	64.38	62.01	0.77	0.00	117.16
	<b>Sub-total</b>	<b>110.51</b>	<b>27.01</b>	<b>137.51</b>	<b>143.96</b>	<b>241.48</b>	<b>385.45</b>	<b>254.47</b>	<b>268.49</b>	<b>2.00</b>	<b>2.31</b>	<b>527.27</b>
XI	Davao del Norte	80.07	0.00	80.07	62.64	52.79	115.43	142.72	52.79	3.78	0.00	199.28
	Davao del Sur	2.36	0.00	2.36	9.84	43.36	52.99	11.99	43.36	0.00	14.81	70.16
	Davao Oriental	8.56	0.21	8.76	10.87	56.22	67.09	19.42	56.43	0.00	0.00	75.85
	South Cotabato	26.14	0.00	26.14	23.68	5.43	29.11	49.82	5.43	0.00	11.28	66.52
	Sarangani	0.00	0.00	0.00	0.82	4.00	4.82	0.82	4.00	0.00	27.98	32.80
	Davao City	13.55	3.73	17.29	10.88	9.73	20.61	24.43	13.46	0.00	0.00	37.89
	<b>Sub-total</b>	<b>130.68</b>	<b>3.94</b>	<b>134.62</b>	<b>118.52</b>	<b>171.52</b>	<b>290.04</b>	<b>249.20</b>	<b>175.46</b>	<b>3.78</b>	<b>54.07</b>	<b>482.51</b>
XII	Lanao del Norte	7.60	2.50	10.10	13.00	53.55	66.55			0.00	0.00	0.00
	North Cotabato	21.78	3.20	24.98	183.42	97.37	280.79			1.10	63.88	64.98
	Sultan Kudarat	14.10	0.00	14.10	13.20	0.00	13.20			0.00	0.00	0.00
	<b>Sub-total</b>	<b>43.48</b>	<b>5.70</b>	<b>49.18</b>	<b>209.62</b>	<b>150.92</b>	<b>360.54</b>	<b>0.00</b>	<b>0.00</b>	<b>1.10</b>	<b>63.88</b>	<b>64.98</b>
XIII	Agusan del Norte	17.28	6.62	23.90	9.28	49.79	59.07	26.56	56.41	0.00	26.66	109.62
	Agusan del Sur	37.31	0.31	37.62	20.04	23.93	43.97	57.35	24.24	0.00	0.00	81.59
	Surigao del Norte	15.61	0.00	15.61	0.19	14.04	14.23	15.80	14.04	0.38	4.76	34.99
	Surigao del Sur	2.20	0.92	3.13	0.31	5.48	5.79	2.51	6.41	0.00	1.28	10.20
	<b>Sub-total</b>	<b>72.41</b>	<b>7.85</b>	<b>80.25</b>	<b>29.82</b>	<b>93.25</b>	<b>123.07</b>	<b>102.22</b>	<b>101.10</b>	<b>0.38</b>	<b>32.70</b>	<b>236.40</b>
ARMM	Lanao del Sur	0.20	0.00	0.20	0.00	34.25	34.25			0.00	0.00	0.00
	Maguindanao	9.30	1.29	10.59	11.60	8.45	20.05			0.00	9.17	9.17
	<b>Sub-total</b>	<b>9.50</b>	<b>1.29</b>	<b>10.79</b>	<b>11.60</b>	<b>42.70</b>	<b>54.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>9.17</b>	<b>9.17</b>
<b>Study Area Total</b>		<b>1216.47</b>	<b>240.90</b>	<b>1457.37</b>	<b>1398.62</b>	<b>1832.05</b>	<b>3230.66</b>	<b>2340.88</b>	<b>1872.34</b>	<b>76.05</b>	<b>224.19</b>	<b>4513.46</b>



Master Plan Study on Visayas and Mindanao Islands  
Strategic Road Network Development Project  
Arterial Road Length Summary by Pavement Condition

Region	Province	North-South Backbone					East-West Lateral					Other Roads of Strategic Importance				
		Good / Fair	Bad / V. Bad	UIC	Impassable	Total	Good / Fair	Bad / V. Bad	UIC	Impassable	Total	Good / Fair	Bad / V. Bad	UIC	Impassable	Total
IV-B	Mamundque	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.89	61.83	2.38	0.00	128.10
	Occidental Mindoro	16.38	8.21	0.00	5.66	30.25	0.00	0.00	0.00	0.00	0.00	191.82	21.24	1.09	12.00	226.15
	Oriental Mindoro	63.39	141.35	0.00	9.44	214.18	2.93	14.73	0.00	0.00	17.85	19.82	32.57	0.76	0.00	53.24
	Palawan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	260.30	277.40	0.00	0.00	537.70
	Sub-total	78.77	149.77	0.00	15.10	243.10	2.93	14.73	0.00	0.00	17.85	54.73	70.22	0.15	0.00	125.10
V	Capandianes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	152.03	43.25	4.35	12.00	207.13
	Macabale	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.38	12.41	0.71	0.00	121.49
	Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	254.41	55.66	5.07	0.00	328.23
	Alitin	27.99	27.90	0.00	0.00	55.89	0.00	0.00	0.00	0.00	0.00	28.40	22.25	0.00	0.00	50.65
	Artique	0.00	6.30	0.00	0.00	6.30	1.12	12.74	0.00	0.00	13.86	95.07	57.69	0.00	0.00	152.75
VI	Capaz	16.06	30.32	0.00	0.00	46.38	65.58	23.60	1.96	0.00	67.13	115.46	67.13	0.00	0.00	182.59
	Iloilo	36.90	26.92	0.00	0.00	63.82	24.77	71.23	0.00	0.00	96.01	148.71	35.87	0.00	0.00	182.59
	Gumeras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00	0.00	0.00	12.50
	Negros Occidental	285.77	20.89	0.00	0.00	306.66	23.07	22.97	0.00	0.00	46.04	21.85	73.11	30.99	0.00	125.75
	Iloilo City	3.55	0.00	0.00	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VII	Sub-total	376.96	112.22	0.00	0.00	489.18	117.83	138.84	1.96	0.00	250.14	432.50	244.53	34.99	0.00	731.02
	Bohol	131.37	58.11	0.00	0.00	189.48	51.65	23.33	2.57	0.00	77.75	51.75	18.09	1.50	0.00	71.34
	Cebu	187.97	22.24	0.00	0.00	210.21	22.90	53.60	0.00	0.00	56.50	210.68	152.98	2.17	0.00	365.83
	Negros Oriental	95.60	8.37	0.50	0.00	104.54	10.84	9.00	8.71	0.00	20.35	209.48	15.84	1.40	0.00	226.81
	Sub-total	304.92	88.72	0.50	0.00	393.64	85.39	66.73	11.28	0.00	103.83	340.30	190.16	3.49	0.00	533.10
VIII	Leyte	104.44	10.02	0.00	0.00	114.46	49.00	3.04	0.00	12.88	64.93	246.97	73.06	0.00	0.00	260.03
	Southern Leyte	49.10	3.09	0.00	0.00	52.19	0.00	0.00	0.00	0.00	0.00	66.19	0.10	18.48	0.00	84.75
	Biliran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eastern Samar	0.00	0.00	0.00	0.00	0.00	37.46	36.23	0.00	0.00	73.69	148.72	24.85	0.00	0.00	173.37
	Northern Samar	14.90	14.04	0.00	0.00	28.94	5.88	36.62	0.00	0.00	42.50	90.76	0.00	0.00	0.00	90.76
IX	Western Samar	152.70	51.11	0.00	0.00	203.81	69.15	12.10	0.00	8.26	87.54	0.00	0.00	0.00	0.00	90.79
	Sub-total	321.16	78.27	0.00	0.00	399.43	114.23	51.38	0.00	19.14	270.48	552.67	37.81	18.48	0.00	608.94
	Zamboanga del Norte	0.00	0.00	0.00	0.00	0.00	44.58	2.25	0.00	0.00	44.02	24.08	133.85	0.00	0.00	157.93
	Zamboanga del Sur	146.55	174.78	1.00	0.00	321.33	18.24	40.50	1.01	0.00	59.75	61.14	8.26	0.00	0.00	69.40
	Sub-total	146.55	174.78	1.00	0.00	321.33	62.82	42.78	1.83	0.00	103.77	303.22	142.11	0.00	0.00	445.93
X	Buldonon	170.41	13.02	0.00	0.00	183.42	51.25	21.27	0.00	0.00	72.52	20.09	24.98	0.00	0.00	45.07
	Campuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.82	36.36	0.00	0.00	64.18
	Misamis Occidental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.89	0.00	0.00	0.00	132.89
	Misamis Oriental	242.89	0.00	0.00	0.00	242.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	413.30	13.02	0.00	0.00	426.32	51.25	21.27	0.00	0.00	72.52	180.90	61.34	0.00	0.00	242.30
XI	Davao del Norte	95.19	30.97	0.00	0.00	126.16	47.44	0.00	0.00	0.00	47.44	0.00	0.00	0.00	0.00	47.44
	Davao del Sur	44.28	4.41	0.00	0.00	48.69	8.46	21.01	0.00	0.00	29.47	70.93	4.61	0.00	0.00	137.04
	Davao Oriental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.34	177.52	3.69	0.00	245.55
	South Cotabato	113.62	0.00	0.00	0.00	113.62	0.00	0.00	0.00	0.00	0.00	25.01	0.00	0.00	0.00	25.01
	Sarangani	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.48	24.60	0.00	14.96	208.95
XII	Davao City	70.19	145.19	0.00	0.00	215.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	213.28	180.58	0.00	0.00	393.86	55.89	21.91	0.00	0.00	78.31	352.76	206.84	3.69	0.00	559.65
	Lanao del Norte	133.60	20.93	2.20	0.00	154.73	22.10	0.00	0.00	0.00	22.10	0.00	0.00	0.00	0.00	22.10
	North Cotabato	0.00	0.00	0.00	0.00	0.00	96.25	23.24	3.88	0.00	123.37	103.86	0.00	2.70	0.00	126.36
	Sub-total	133.60	20.93	2.20	0.00	154.73	118.35	23.24	3.88	0.00	146.47	207.86	34.60	2.70	0.00	241.30
XIII	Agusan del Norte	116.78	22.43	1.52	0.00	140.73	0.00	0.00	0.00	0.00	0.00	2.00	2.19	0.00	0.00	4.19
	Agusan del Sur	40.33	95.71	0.00	0.00	136.03	51.58	39.46	0.00	0.00	91.02	0.00	0.00	0.00	0.00	91.02
	Surigao del Norte	92.90	1.35	0.00	0.00	94.25	0.00	0.00	0.00	0.00	0.00	27.89	33.89	1.71	0.00	62.50
	Surigao del Sur	0.00	0.00	0.00	0.00	0.00	18.45	51.19	1.03	15.38	69.04	79.01	231.13	3.32	0.00	313.17
	Sub-total	210.01	119.49	1.52	0.00	330.02	70.01	100.65	1.03	15.38	147.08	103.90	267.21	4.74	0.00	350.86
ARMM	Lanao del Sur	35.10	19.80	4.40	0.00	59.30	37.75	27.50	0.00	6.50	71.75	85.25	27.25	0.00	0.00	116.50
	Maguidanao	82.11	33.74	0.00	0.00	115.85	7.98	0.75	0.00	8.73	28.77	0.00	0.00	0.00	0.00	38.89
	Sub-total	117.21	53.54	4.40	0.00	175.15	45.73	28.25	0.00	15.23	100.52	85.25	27.25	0.00	0.00	155.79
	Study Area Total	2500.89	849.14	179.45	21.52	3551.01	771.93	539.17	20.03	41.01	1372.15	3657.06	1822.99	77.01	159.36	5716.41

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Road Length Summary by Pavement Condition by Road Functional Classification**

Region	Province	Arterial Road					National Secondary Road					Total				
		Good / Fair	Bad / V. Bad	U/C	Impassable	Total	Good / Fair	Bad / V. Bad	U/C	Impassable	Total	Good / Fair	Bad / V. Bad	U/C	Impassable	Total
IV-B	Mandique	64.85	61.83	2.38	0.00	129.10	3.81	79.05	0.00	0.00	82.86	68.71	140.86	2.38	0.00	211.96
	Occidental Mindoro	208.20	29.45	1.75	17.66	237.66	66.55	31.81	0.19	12.33	110.88	274.75	61.27	1.94	28.99	367.94
	Oriental Mindoro	96.23	180.85	0.76	9.44	285.28	11.56	1.96	0.00	0.00	13.55	97.80	190.83	0.76	9.44	298.82
	Palawan	260.30	277.40	0.00	0.00	537.70	93.39	32.14	0.00	0.00	123.53	353.68	309.55	0.00	0.00	663.23
	Sub-total	54.73	70.22	0.15	0.00	125.10	31.61	117.04	0.00	0.00	148.65	86.34	187.25	0.15	0.00	273.74
V	Romblon	874.38	827.78	5.02	37.10	1734.23	208.92	282.03	0.19	12.33	481.47	881.28	189.77	33.43	0.00	1815.70
	Caladuanes	152.03	50.35	2.36	0.00	204.74	28.11	15.17	0.00	0.00	43.29	180.14	65.52	2.36	0.00	248.03
	Masbate	102.38	18.41	0.71	0.00	121.49	63.27	62.51	8.02	20.40	185.95	80.92	20.40	8.73	20.40	295.70
	Sub-total	284.41	69.78	3.07	0.00	356.23	111.38	77.69	8.02	20.40	217.89	355.79	146.44	11.10	20.40	543.73
	Atlan	54.39	50.15	0.00	0.00	104.54	25.10	13.44	0.00	0.00	38.53	79.49	63.56	0.00	0.00	143.08
VI	Antique	96.29	76.79	0.00	0.00	173.07	41.24	113.12	0.00	2.33	161.69	237.52	194.90	0.00	2.33	335.71
	Capiz	202.68	121.08	1.96	0.00	323.71	0.00	0.00	0.00	0.00	202.69	121.06	1.96	0.00	325.71	
	Iloilo	208.36	134.03	0.00	0.00	342.41	219.35	245.43	8.82	0.00	473.59	427.73	379.45	8.82	0.00	816.00
	Guimaras	33.17	12.50	0.00	0.00	45.67	61.53	22.44	0.00	0.00	83.97	94.70	34.94	0.00	0.00	129.64
	Negros Occidental	334.52	119.77	37.03	0.00	489.32	252.75	193.89	2.48	0.00	449.11	597.27	310.66	39.50	0.00	937.43
VII	Iloilo City	3.55	0.00	0.00	0.00	3.55	24.92	0.70	0.00	0.00	25.52	27.00	0.70	0.00	29.06	
	Sub-total	832.91	411.28	34.99	0.00	1443.27	624.78	684.01	11.29	2.33	1232.41	1557.78	1103.30	50.28	2.33	2715.63
	Bohol	234.97	99.53	4.07	0.00	334.56	119.87	97.75	4.91	25.13	247.71	354.63	197.29	8.98	25.13	586.27
	Cebu	401.55	208.62	2.17	0.00	612.34	96.71	50.26	3.50	1.08	121.56	468.26	259.09	5.67	1.08	734.10
	Negros Oriental	310.01	34.01	10.69	0.00	380.71	2.48	17.84	0.00	0.00	20.12	318.43	51.85	10.69	0.00	390.82
VIII	Sub-total	983.39	375.15	34.99	0.00	1396.94	189.08	165.85	8.41	26.28	389.38	1209.96	511.27	26.28	34.99	1776.32
	Leyte	400.41	26.12	0.83	12.88	429.29	349.79	70.65	28.13	0.29	448.97	750.20	96.78	28.97	13.18	889.12
	Southern Leyte	115.29	3.19	0.00	0.00	118.48	61.38	9.08	0.00	0.00	103.80	146.03	64.57	0.00	0.00	240.74
	Butuan	0.00	0.00	0.00	0.00	0.00	89.38	40.85	2.46	0.44	85.36	85.36	40.85	2.46	0.44	132.91
	Eastern Samar	188.19	62.88	0.00	0.00	249.06	33.44	24.26	0.00	0.00	57.69	219.62	87.13	0.00	0.00	306.76
IX	Northern Samar	111.56	50.86	0.00	0.00	162.26	0.00	0.00	0.00	0.00	0.00	111.56	50.86	0.00	0.00	162.26
	Western Samar	221.88	65.21	0.00	6.26	291.35	3.19	3.44	0.00	0.00	6.63	225.07	66.65	0.00	0.00	297.98
	Sub-total	1035.38	206.08	19.14	19.14	1279.86	593.12	200.38	39.87	6.74	783.93	1544.43	408.44	58.37	19.38	2029.76
	Zamboanga del Norte	285.96	136.10	0.88	64.00	486.95	31.02	316.98	0.00	0.00	316.98	136.10	0.00	0.88	64.00	517.97
	Zamboanga del Sur	225.94	223.54	2.01	0.00	451.48	62.71	27.54	1.21	0.00	91.48	288.55	251.08	3.21	0.00	542.94
X	Sub-total	511.90	389.68	2.89	64.00	938.43	93.73	27.84	1.21	0.00	122.47	605.53	387.18	4.09	0.00	1040.91
	Butuan	241.75	59.25	0.00	0.00	300.99	161.18	170.31	1.23	2.31	335.03	229.55	1.23	2.31	606.02	
	Compostela	27.62	36.38	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00	27.62	36.38	0.00	0.00	64.00
	Misamis Occidental	132.89	0.00	0.00	0.00	133.25	38.91	36.17	0.00	0.00	75.08	171.80	36.17	0.00	0.00	208.33
	Misamis Oriental	242.99	0.00	0.00	0.00	243.08	54.38	62.01	0.77	0.00	117.16	297.96	62.01	0.86	0.00	360.24
XI	Sub-total	645.25	95.63	0.45	0.00	741.33	254.47	288.49	2.00	2.31	527.27	699.71	364.12	2.45	2.31	1264.59
	Davao del Norte	102.62	50.97	0.00	0.00	153.59	142.72	52.79	3.78	0.00	199.29	245.34	103.79	3.78	0.00	352.83
	Davao del Sur	123.67	30.03	27.16	61.50	243.36	11.99	43.36	0.00	14.81	70.15	135.66	73.39	27.16	76.31	312.52
	Davao Oriental	87.34	177.62	3.69	0.00	268.65	19.42	56.43	0.00	0.00	75.85	106.76	204.05	3.69	0.00	344.50
	South Cotabato	138.63	0.00	18.35	0.00	156.98	49.52	5.43	0.00	11.29	66.52	188.45	5.43	18.35	223.50	
XII	Sarangani	169.48	24.60	38.69	14.86	247.64	0.82	4.00	0.00	0.00	32.80	170.30	26.60	38.69	42.85	280.44
	Davao City	70.19	0.00	78.00	0.00	148.19	24.43	13.46	0.00	0.00	37.89	94.52	13.46	78.00	186.38	
	Sub-total	691.93	283.23	165.89	76.38	1217.41	248.20	175.46	3.78	54.07	482.51	483.69	169.83	165.89	1599.32	
	Lanao del Norte	155.70	20.93	2.20	6.42	185.25	20.60	56.05	0.00	0.00	76.85	176.30	76.98	2.20	6.42	261.90
	North Cotabato	199.92	37.85	6.59	0.00	229.74	205.20	100.57	1.10	63.88	370.75	405.12	123.61	7.88	63.88	600.49
XIII	Sub-total	355.62	58.78	8.79	6.42	411.99	415.80	156.62	1.10	63.88	741.50	581.42	194.59	10.08	70.30	1206.39
	Agusan del Norte	118.78	4.62	1.52	0.00	124.92	28.59	56.41	0.00	28.68	109.62	145.34	61.02	1.52	28.68	234.55
	Agusan del Sur	91.88	135.17	0.00	0.00	227.05	57.35	24.24	0.00	0.00	81.59	149.23	159.41	0.00	0.00	308.64
	Surigao del Norte	80.85	35.24	1.71	0.00	117.80	15.80	14.04	0.38	4.76	34.99	96.65	49.28	2.09	4.76	152.79
	Surigao del Sur	97.46	292.33	4.05	15.38	409.21	2.51	6.41	0.00	1.28	10.20	99.97	298.73	4.05	15.38	419.41
ARMM	Sub-total	388.98	467.35	7.23	15.38	872.99	182.22	101.10	0.38	32.70	236.40	431.20	568.45	7.67	48.07	1115.39
	Lanao del Sur	162.10	74.55	4.40	6.50	247.55	0.20	34.25	0.00	0.00	34.45	162.30	108.80	4.40	6.50	282.00
	Maguindanao	118.36	89.61	0.00	0.00	208.47	20.90	9.74	0.00	9.17	39.91	139.76	98.35	0.00	9.17	248.28
Study Area Total		6929.88	3211.30	276.49	221.90	10639.57	2613.08	2072.95	76.05	224.19	4988.27	9544.96	5284.25	352.55	446.09	15627.84

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Road Length Summary by Number of Lanes per Administrative Road Classification**

Region	Province	National Road					Provincial Road					Total				
		4-lane	2-lane	1-lane	UIC	Impassable	4-lane	2-lane	1-lane	UIC	Impassable	Total	4-lane	2-lane	1-lane	Total
IV-B	Mindanao	0.05	101.72	107.81	2.38	0.00	0.00	0.00	0.00	0.00	0.00	211.96	0.00	101.72	107.81	211.96
	Occidental Mindoro	0.85	146.13	114.09	1.94	23.99	0.00	75.99	55.88	0.00	0.00	131.88	0.00	222.12	173.98	428.86
	Oriental Mindoro	0.00	224.96	57.77	0.76	9.44	0.00	44.79	68.57	1.84	0.00	116.21	0.00	289.75	127.35	409.13
	Palawan	0.00	400.67	262.56	0.00	0.00	0.00	34.21	68.81	0.00	38.34	431.36	0.00	434.88	331.37	804.99
	Romblon	0.74	44.87	227.98	0.15	0.00	0.00	12.29	39.75	0.00	0.00	52.04	0.00	57.16	267.74	325.79
V	Sub-total	1.64	918.35	774.22	5.21	33.43	0.00	167.28	234.02	1.84	38.34	441.48	0.00	1085.63	1008.24	2190.34
	Calendanes	0.00	111.96	133.70	2.36	0.00	0.00	11.50	120.30	0.00	0.00	130.00	0.00	120.46	254.00	378.03
	Masbate	0.00	153.02	113.55	8.73	0.00	0.00	37.53	43.53	0.00	25.28	166.33	0.00	190.54	157.08	402.03
	Sub-total	0.00	264.98	247.25	11.10	20.40	0.00	48.03	163.83	1.80	25.28	296.33	0.00	311.01	411.08	720.06
	Atakan	1.96	120.12	20.89	0.00	0.00	0.00	31.07	61.06	0.00	0.00	112.15	1.96	151.19	102.07	255.22
VI	Antique	0.00	204.37	128.05	0.00	2.33	0.00	6.20	16.64	0.00	0.00	16.84	0.00	210.59	138.69	351.60
	Cebu	4.15	243.09	76.51	1.86	0.00	0.00	28.18	47.26	3.36	0.00	76.80	0.00	271.27	123.77	404.51
	Capiz	0.00	584.87	96.57	8.82	0.00	0.00	71.95	45.02	0.00	7.46	104.17	0.00	772.62	145.59	900.17
	Iloilo	13.95	63.74	45.67	0.00	0.00	0.00	6.25	45.38	0.00	0.00	51.64	0.00	89.89	91.06	181.28
	Guimaras	0.23	769.08	103.60	39.50	0.00	0.00	65.18	71.27	0.00	0.40	136.85	0.00	834.28	174.87	1009.26
VII	Negros Occidental	25.25	18.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.87	0.00	18.19	0.00	25.06
	Iloilo City	10.87	18.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.87	0.00	18.19	0.00	25.06
	Sub-total	58.41	2133.37	473.40	50.28	2.33	0.00	214.84	308.65	7.89	7.88	150.16	0.00	2348.10	774.05	3246.13
	Bolton	2.24	490.33	59.05	6.96	25.18	0.00	26.32	123.87	3.97	0.00	150.16	2.24	517.15	184.91	742.44
	Cebu	48.04	474.21	119.75	5.67	1.08	0.00	166.35	83.99	1.40	75.73	307.61	46.18	640.55	163.74	768.81
VIII	Negros Oriental	0.40	365.35	4.36	10.89	0.00	0.00	71.86	106.33	1.19	0.00	185.38	0.40	443.24	110.58	556.20
	Siquor	0.00	71.63	0.00	3.49	0.00	0.00	1.07	34.63	0.00	0.00	35.70	0.00	72.70	34.63	110.82
	Sub-total	44.64	1402.05	133.16	24.83	26.26	0.00	217.60	338.81	5.56	75.73	654.84	48.83	1673.65	513.96	2233.82
	Leyte	0.00	624.36	222.62	29.97	13.12	0.00	37.56	62.90	0.00	27.69	126.15	0.00	661.92	265.52	927.27
	Southern Leyte	0.00	165.52	47.68	27.55	0.00	0.00	4.96	20.26	0.00	0.00	25.24	0.00	170.48	67.95	238.43
IX	Biliran	0.00	51.85	78.17	2.46	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.85	78.17	130.02
	Eastern Samar	2.78	204.35	69.82	0.00	0.00	0.00	1.08	10.07	0.00	0.00	11.15	2.78	205.43	79.99	287.90
	Northern Samar	0.00	139.41	22.84	0.00	0.00	0.00	32.81	32.38	0.00	58.88	124.92	0.00	172.22	55.22	279.17
	Western Samar	0.54	202.64	8.34	0.00	6.28	0.00	8.74	104.53	0.00	16.01	128.28	0.54	291.38	113.08	401.90
	Sub-total	3.32	1488.13	483.47	59.97	19.88	0.00	85.16	230.15	2.85	100.58	418.73	3.32	1583.28	679.62	2248.48
X	Zamboanga del Norte	0.00	328.35	61.24	0.88	0.00	0.00	2.04	194.28	0.00	99.50	295.82	0.00	330.39	255.52	686.20
	Zamboanga del Sur	0.00	525.44	14.29	3.21	0.00	0.00	178.73	88.53	0.00	25.04	292.30	0.00	704.17	102.81	835.22
	Sub-total	0.00	853.79	75.52	4.09	0.00	0.00	180.77	282.80	0.00	124.54	588.12	0.00	1034.56	358.32	1421.52
	Bukidnon	22.76	553.45	58.28	1.25	2.31	0.00	118.39	45.78	0.00	5.00	170.16	22.76	672.83	102.05	805.17
	Compostela	0.00	37.27	26.73	0.00	0.00	0.00	4.06	32.67	0.00	14.85	51.58	0.00	41.33	59.40	100.73
XI	Misamis Occidental	8.37	185.01	14.09	0.36	0.00	0.00	17.86	84.82	0.00	0.00	102.81	8.37	203.00	98.91	291.14
	Misamis Oriental	20.04	330.32	9.02	0.96	0.00	1.08	97.07	101.42	0.41	18.91	216.89	21.12	427.38	110.44	537.10
	Sub-total	51.46	1106.05	108.12	2.46	2.31	0.00	215.50	264.69	0.41	35.76	541.43	52.74	1344.55	370.81	1670.32
	Davao del Norte	4.52	289.36	55.20	3.76	0.00	0.00	31.49	227.96	0.00	30.44	339.89	4.52	370.86	285.16	652.77
	Davao del Sur	0.31	144.58	64.17	27.16	76.31	0.00	50.12	37.9	0.00	6.25	90.17	0.31	194.70	67.96	262.66
XII	Davao Oriental	0.00	252.20	88.61	3.69	0.00	0.00	10.00	39.00	0.00	0.00	49.00	0.00	262.20	127.61	389.80
	South Cotabato	27.57	160.26	6.05	19.35	11.28	0.00	24.77	18.50	0.00	0.00	43.28	27.57	165.03	24.55	329.58
	Sarangani	0.00	171.84	27.06	36.69	42.85	0.00	3.18	58.68	16.25	17.56	89.68	0.00	175.02	83.74	258.76
	Davao City	15.29	80.95	11.85	78.00	0.00	0.00	36.01	82.58	3.60	9.18	134.37	15.29	119.96	94.43	320.45
	Sub-total	47.88	1693.20	252.83	163.63	130.43	0.00	203.57	430.62	13.85	63.45	716.39	47.89	1307.77	683.44	1991.21
XIII	Lanao del Norte	0.76	172.60	92.09	2.20	6.42	0.00	11.55	133.67	0.00	36.80	184.22	0.76	184.15	225.75	409.22
	North Cotabato	3.72	471.47	53.75	7.68	83.88	0.00	85.08	43.90	0.00	20.70	149.68	3.72	556.55	97.65	750.17
	Sultan Kudarat	10.34	169.83	22.00	0.00	7.00	0.00	348.55	83.15	0.00	2.00	431.70	10.34	516.38	105.15	640.97
	Sub-total	14.76	813.90	167.83	9.88	77.30	0.00	443.18	260.72	0.20	61.50	765.68	14.76	1257.08	425.95	1683.26
	Agusan del Norte	6.00	175.01	24.36	1.32	20.06	0.00	8.38	50.40	0.00	19.52	88.30	6.00	184.19	84.97	269.16
ARMM	Agusan del Sur	0.00	257.06	51.56	0.00	0.00	0.00	151.37	108.07	8.46	34.38	306.28	0.00	408.46	159.62	568.10
	Sarangani del Norte	0.28	124.51	21.13	2.09	4.76	0.00	43.08	34.46	2.95	19.99	100.48	0.28	167.59	55.60	223.27
	Sarangani del Sur	0.65	367.35	30.40	4.05	16.65	0.00	0.63	35.49	0.00	5.71	41.83	0.65	367.95	65.89	433.84
	Sub-total	7.24	924.78	127.45	7.67	48.07	0.00	203.46	238.42	11.41	83.60	536.85	7.24	1128.22	366.07	1494.29
	Lanao del Sur	0.70	178.85	84.45	4.40	6.50	0.00	12.00	119.53	0.00	31.20	162.73	0.70	190.95	203.98	394.73
Study Area Total	Maguindano	1.76	184.52	52.83	0.00	9.17	0.00	95.97	83.50	0.00	117.77	297.34	1.76	280.49	136.43	416.92
	Sub-total	2.46	363.47	137.28	4.40	15.67	0.00	107.97	203.13	0.00	148.97	480.07	2.46	471.44	340.41	811.85
	Sub-total	233.85	11377.95	2984.83	352.55	382.09	1.23	2167.35	2939.74	45.40	766.61	5920.33	235.08	13545.29	5934.57	19479.86
	Sub-total	233.85	11377.95	2984.83	352.55	382.09	1.23	2167.35	2939.74	45.40	766.61	5920.33	235.08	13545.29	5934.57	19479.86
	Sub-total	233.85	11377.95	2984.83	352.55	382.09	1.23	2167.35	2939.74	45.40	766.61	5920.33	235.08	13545.29	5934.57	19479.86

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Road Length Summary by Number of Lanes per Road Functional Classification**

Region	Province	North-South Backbone				East-West Lateral				Total	Impassable	Total
		4-lane	2-lane	1-lane	U/C	4-lane	2-lane	1-lane	U/C			
IV-B	Marikinaque	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Occidental Mindoro	0.61	14.92	9.06	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Oriental Mindoro	0.00	189.88	35.26	0.00	0.00	0.00	10.90	6.75	0.00	0.00	17.65
	Palawan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Romblon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	6.61	194.80	44.32	6.66	0.00	0.00	10.90	6.75	0.00	0.00	17.65
V	Catanduanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VI	Albay	0.00	55.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Antique	0.00	2.85	3.64	0.00	0.00	0.00	1.12	12.74	0.00	0.00	13.86
	Capiz	0.00	48.96	0.00	0.00	0.00	0.00	84.25	7.93	1.96	0.00	94.14
	Iloilo	0.00	53.23	0.00	0.00	0.00	0.00	52.56	2.43	0.00	0.00	96.01
	Guimaras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	22.97	267.60	0.00	0.00	0.00	0.00	46.04	0.00	0.00	0.00	46.04
VII	Negros Occidental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Iloilo City	2.05	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VIII	Sub-total	35.81	480.03	3.64	0.00	0.00	0.00	46.04	0.00	0.00	0.00	250.04
	Bohol	0.00	183.78	0.70	0.00	0.00	0.00	75.17	0.00	2.57	0.00	77.75
	Cebu	16.00	167.50	6.71	0.00	0.00	0.80	28.10	27.60	0.00	0.00	56.50
	Negros Oriental	0.40	103.65	0.00	0.50	0.00	0.00	20.64	8.71	0.00	0.00	29.35
	Siquijor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	16.40	449.93	7.41	0.50	0.00	0.80	123.92	37.40	11.28	0.00	163.60
IX	Leyte	0.00	114.45	0.00	0.00	0.00	0.00	38.89	13.16	0.00	12.86	64.33
	Southern Leyte	0.00	52.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Butuan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eastern Samar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Northern Samar	0.00	28.97	0.00	0.00	0.00	2.76	38.99	24.03	0.00	0.00	75.59
	Sub-total	0.54	203.27	0.00	0.00	0.00	2.76	19.86	22.14	0.00	0.00	42.50
X	Western Samar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	0.54	203.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Zamboanga del Norte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Zamboanga del Sur	0.00	316.37	4.96	1.00	0.00	0.00	56.73	2.01	1.91	0.00	59.75
	Sub-total	0.00	316.37	4.96	1.00	0.00	0.00	101.71	4.17	1.89	0.00	107.77
	Bukidnon	21.12	162.31	0.00	0.00	0.00	0.00	72.52	0.00	0.00	0.00	72.52
XI	Camiguin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Occidental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Misamis Oriental	17.17	225.82	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	17.17	225.82	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Davao del Norte	1.25	104.91	0.00	0.00	0.00	0.00	45.36	0.00	0.00	0.00	47.44
	Davao del Sur	0.31	48.38	0.00	0.00	0.00	0.00	29.47	0.00	0.00	0.00	29.47
XII	Davao Oriental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	South Cotabato	15.34	99.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sarangani	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Davao City	14.96	55.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	31.30	306.76	0.00	0.00	0.00	0.00	74.83	0.00	0.00	0.00	78.91
	Lanao del Norte	0.70	134.50	19.23	2.20	0.00	0.00	22.10	0.00	0.00	0.00	22.10
XIII	North Cotabato	0.00	0.00	0.00	0.00	0.00	0.00	116.86	0.00	3.88	0.00	123.37
	Sultan Kudarat	3.55	23.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-total	4.25	157.94	19.23	2.20	0.00	0.00	138.96	0.00	3.88	0.00	145.41
	Agusan del Norte	4.52	114.69	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Agusan del Sur	0.00	135.03	0.00	0.00	0.00	0.00	54.53	36.39	0.00	0.00	91.02
	Surigao del Norte	0.00	54.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARMM	Sub-total	4.52	305.03	0.00	1.52	0.00	0.00	115.47	53.20	1.03	15.38	187.08
	Lanao del Sur	0.00	35.20	19.70	4.40	0.00	0.00	34.05	30.50	0.00	6.50	71.75
	Maguindanao	1.41	114.44	0.00	0.00	0.00	0.00	8.73	0.00	0.00	0.00	8.73
	Sub-total	1.41	149.64	19.70	4.40	0.00	0.00	42.78	30.50	0.00	6.50	80.48
	Study Area Total	133.42	3117.35	96.26	179.45	21.52	3551.01	8.99	1080.56	221.55	20.03	41.01

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Road Length Summary by Number of Lanes per Road Functional Classification**

Region	Province	Other Roads of Strategic Importance					National Secondary					Total
		4-lane	2-lane	1-lane	UIC	Impassable	4-lane	2-lane	1-lane	UIC	Impassable	
IV-B	Marikina	0.00	96.23	30.49	2.38	0.00	0.00	5.49	77.32	0.00	0.00	82.86
	Occidental Mindoro	0.24	181.20	31.62	1.09	12.00	0.00	14.63	83.73	0.19	12.33	110.88
	Oriental Mindoro	0.00	34.22	31.82	0.76	0.00	0.00	12.56	0.99	0.00	0.00	13.55
V	Pesayan	0.00	317.85	219.85	0.00	0.00	0.00	537.70	42.71	0.00	0.00	125.53
	Romblon	0.00	29.80	95.95	0.15	0.00	0.00	125.10	132.63	0.00	0.00	148.95
	Sub-total	0.24	638.10	398.58	4.38	12.00	0.00	136.77	337.38	0.19	12.33	481.47
VI	Calandianes	0.00	94.15	106.22	2.36	0.00	0.00	17.81	25.48	0.00	0.00	43.29
	Masbate	0.00	14.49	121.71	3.07	0.00	0.00	44.53	98.06	8.02	20.40	174.21
	Sub-total	0.00	208.45	122.71	5.43	0.00	0.00	62.34	123.54	8.02	20.40	217.49
VII	Alakan	1.96	39.14	7.56	0.00	0.00	0.00	25.10	13.44	0.00	0.00	38.53
	Anique	0.00	109.86	42.87	0.00	0.00	0.00	95.55	65.61	0.00	0.00	161.16
	Capiz	4.15	109.86	64.58	0.00	0.00	0.00	182.59	96.15	0.00	0.00	278.74
VIII	Iloilo	0.00	182.59	0.00	0.00	0.00	0.00	365.27	96.15	0.00	0.00	461.42
	Guimaras	0.00	28.88	16.79	0.00	0.00	0.00	54.66	28.88	0.00	0.00	83.56
	Negros Occidental	0.00	76.77	12.02	0.00	0.00	0.00	88.79	85.59	2.46	0.00	174.38
IX	Iloilo City	0.00	0.00	0.00	0.00	0.00	0.00	16.70	0.00	0.00	0.00	16.70
	Sub-total	6.11	547.10	163.32	30.99	0.00	0.00	911.15	292.85	11.28	2.33	1232.41
X	Bacolod	2.24	93.02	4.58	1.50	0.00	0.00	153.66	53.76	4.91	25.18	247.71
	Cebu	14.10	296.37	50.89	2.17	0.00	0.00	365.83	35.18	3.50	1.08	404.59
	Negros Oriental	0.00	220.97	4.36	1.46	0.00	0.00	20.12	0.00	0.00	0.00	20.12
XI	Siquior	0.00	71.63	0.00	3.49	0.00	0.00	75.13	0.00	0.00	0.00	75.13
	Sub-total	16.34	664.43	55.43	8.48	0.00	0.00	728.19	88.94	8.41	26.26	817.38
XII	Leyte	0.00	258.41	1.62	0.00	0.00	0.00	212.60	207.84	28.13	0.25	448.87
	Southern Leyte	0.00	96.29	0.00	18.46	0.00	0.00	47.04	47.68	9.06	0.00	103.80
	Biklan	0.00	0.00	0.00	0.00	0.00	0.00	51.85	7.17	2.46	0.44	61.52
XIII	Eastern Samar	0.00	182.03	11.34	0.00	0.00	0.00	33.44	24.26	0.00	0.00	57.69
	Northern Samar	0.00	90.79	0.00	0.00	0.00	0.00	90.78	0.00	0.00	0.00	90.78
	Western Samar	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.00	0.00	0.00	2.31
XIV	Sub-total	8.00	577.51	12.96	14.46	0.00	0.00	347.24	382.28	39.67	0.74	749.90
XV	Zamboanga del Norte	0.00	243.35	122.59	0.00	0.00	0.00	31.02	0.00	0.00	0.00	31.02
	Zamboanga del Sur	0.00	62.10	7.31	0.00	0.00	0.00	90.25	0.00	1.21	0.00	91.46
	Sub-total	0.00	314.45	129.90	0.00	0.00	0.00	121.27	0.00	1.21	0.00	122.47
XVI	Bukidnon	0.00	45.05	0.00	0.00	0.00	0.00	273.57	56.28	1.23	2.31	335.03
	Camiguin	0.00	37.27	26.73	0.00	0.00	0.00	53.30	14.09	0.00	0.00	67.39
	Misamis Occidental	1.18	131.71	0.00	0.36	0.00	0.00	133.25	7.69	0.00	0.00	140.94
XVII	Misamis Oriental	0.00	0.00	0.00	0.00	0.00	0.00	133.25	7.69	0.00	0.00	140.94
	Sub-total	1.18	214.03	26.73	0.36	0.00	0.00	340.12	73.96	0.00	0.00	414.08
XVIII	Davao del Norte	0.00	0.00	0.00	0.00	0.00	0.00	139.11	55.20	3.78	0.00	197.29
	Davao del Sur	0.00	51.86	23.88	0.00	0.00	0.00	15.07	40.28	0.00	0.00	97.21
	Davao Oriental	0.00	203.77	61.19	3.98	0.00	0.00	48.43	27.42	0.00	0.00	75.85
XIX	South Cotabato	10.46	14.56	0.00	0.00	0.00	0.00	47.46	6.05	0.00	0.00	53.51
	Sarangani	0.00	171.84	22.24	0.00	0.00	0.00	0.00	4.92	0.00	0.00	27.98
	Davao City	0.00	0.00	0.00	0.00	0.00	0.00	25.72	11.85	0.00	0.00	37.57
XX	Sub-total	10.46	441.22	107.32	3.98	0.00	0.00	278.79	148.61	3.78	0.00	432.51
XXI	Lanao del Norte	0.00	0.00	0.00	0.00	0.00	0.00	14.80	81.85	0.00	0.00	96.65
	North Cotabato	0.00	103.86	0.00	2.70	0.00	0.00	250.35	53.75	1.10	0.00	370.75
	Sultan Kudarat	5.05	120.89	22.00	0.00	0.00	0.00	154.94	0.00	0.00	0.00	275.30
XXII	Sub-total	5.05	224.65	22.00	2.70	0.00	0.00	319.11	118.60	1.10	0.00	437.70
XXIII	Agusan del Norte	0.00	1.05	3.14	0.00	0.00	0.00	60.07	21.42	0.00	0.00	81.49
	Agusan del Sur	0.00	0.00	0.00	0.00	0.00	0.00	66.42	15.17	0.00	0.00	81.59
	Surigao del Norte	0.00	51.03	10.76	1.71	0.00	0.00	19.18	10.38	0.38	0.00	71.59
XXIV	Surigao del Sur	0.35	303.39	5.80	3.02	0.00	0.00	313.17	3.13	5.79	1.28	324.37
	Sub-total	0.35	335.47	19.78	4.74	0.00	0.00	340.86	52.76	6.33	1.28	400.23
XXV	Lanao del Sur	0.00	116.50	0.00	0.00	0.00	0.00	0.20	34.23	0.00	0.00	34.43
	Magdandang	0.00	31.96	52.83	0.00	0.00	0.00	30.29	0.00	0.00	0.00	82.81
	Sub-total	0.00	148.46	52.83	0.00	0.00	0.00	30.48	34.23	0.00	0.00	97.74
Study Area Total		40.33	4336.54	1103.18	77.01	159.36	51.11	3003.34	1633.58	76.05	224.19	4988.27

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Bridge Type Summary per Administrative Road Classification**

Region	Province	National Road				Provincial Road				Total			
		Permanent Bridge		Temporary Bridge		Permanent Bridge		Temporary Bridge		Permanent Bridge		Temporary Bridge	
		No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
IV-B	Marinduque	38	1422.85	13	252.10	0	0.00	0	0.00	38	1422.85	13	252.10
	Occidental Mindoro	48	3620.71	51	4050.20	28	1051.55	13	798.50	76	4672.26	64	4848.70
	Oriental Mindoro	81	2503.10	17	801.60	21	765.10	5	409.60	102	3268.20	22	1211.10
	Palawan	136	4356.51	101	1847.40	6	156.01	7	34.00	142	4512.52	108	1881.40
	Romblon	58	1731.60	58	1044.49	3	110.30	9	159.08	61	1841.90	67	1203.57
	<b>Sub-total</b>	<b>361</b>	<b>13634.77</b>	<b>240</b>	<b>7995.79</b>	<b>58</b>	<b>2082.96</b>	<b>34</b>	<b>1401.08</b>	<b>419</b>	<b>15717.73</b>	<b>274</b>	<b>9396.87</b>
V	Masbate	29	1128.90	27	502.60	3	52.00	6	142.30	32	1178.90	33	644.90
	Catanduanes	43	1738.50	27	866.80	9	303.20	2	24.00	52	2041.70	29	893.80
	<b>Sub-total</b>	<b>72</b>	<b>2865.40</b>	<b>54</b>	<b>1369.40</b>	<b>12</b>	<b>355.20</b>	<b>8</b>	<b>166.30</b>	<b>84</b>	<b>3220.60</b>	<b>62</b>	<b>1535.70</b>
VI	Aklan	34	1649.20	4	118.00	26	662.20	0	0.00	60	2311.40	4	118.00
	Antique	76	3436.61	71	2885.00	3	48.00	0	0.00	79	3484.61	71	2885.00
	Capiz	66	2451.60	4	148.90	8	205.50	1	30.00	74	2657.10	5	178.90
	Iloilo	129	5473.25	25	687.70	12	452.20	0	0.00	141	5925.45	25	687.70
	Guimaras	7	258.00	11	205.80	0	0.00	0	0.00	7	258.00	11	205.80
	Negros Occidental	210	6617.10	27	964.50	10	303.60	7	213.00	220	6920.70	34	1177.50
	Iloilo City	7	409.00	0	0.00	0	0.00	0	0.00	7	409.00	0	0.00
	<b>Sub-total</b>	<b>529</b>	<b>20294.76</b>	<b>142</b>	<b>5009.90</b>	<b>59</b>	<b>1671.50</b>	<b>8</b>	<b>243.00</b>	<b>588</b>	<b>21966.26</b>	<b>150</b>	<b>5252.90</b>
VII	Bohol	128	3432.45	18	283.55	5	127.65	20	388.05	133	3560.10	38	671.60
	Cebu	115	4151.10	24	511.27	30	822.30	37	601.30	145	4973.40	61	1112.57
	Negros Oriental	126	4382.05	4	114.00	7	179.00	9	245.00	133	4561.05	13	359.00
	Siquijor	8	142.40	0	0.00	0	0.00	1	20.60	8	142.40	1	20.60
	<b>Sub-total</b>	<b>377</b>	<b>12108.00</b>	<b>46</b>	<b>908.82</b>	<b>42</b>	<b>1128.95</b>	<b>67</b>	<b>1254.95</b>	<b>419</b>	<b>13236.95</b>	<b>113</b>	<b>2163.77</b>
VIII	Leyte	268	9389.25	121	2380.65	4	223.35	22	347.00	272	9612.60	143	2727.65
	Southern Leyte	94	3332.22	68	1146.06	2	30.00	0	0.00	96	3362.22	68	1146.06
	Biliran	13	623.00	30	494.50	0	0.00	0	0.00	13	623.00	30	494.50
	Eastern Samar	67	3147.50	43	1258.75	0	0.00	6	61.60	67	3147.50	49	1320.25
	Northern Samar	79	3149.65	0	0.00	23	710.05	1	220.00	102	3859.70	1	220.00
	Western Samar	87	3246.00	3	36.00	13	307.55	20	439.00	100	3553.55	23	475.00
	<b>Sub-total</b>	<b>608</b>	<b>22887.62</b>	<b>265</b>	<b>5315.96</b>	<b>42</b>	<b>1270.95</b>	<b>49</b>	<b>1067.50</b>	<b>650</b>	<b>24158.57</b>	<b>314</b>	<b>6383.46</b>
IX	Zamboanga del Norte	81	4662.24	16	500.60	1	182.00	22	439.00	82	4844.24	38	939.60
	Zamboanga del Sur	125	3786.34	9	243.10	9	265.80	4	932.00	134	4052.14	13	1175.10
	<b>Sub-total</b>	<b>206</b>	<b>8448.58</b>	<b>25</b>	<b>743.70</b>	<b>10</b>	<b>447.80</b>	<b>26</b>	<b>1371.00</b>	<b>216</b>	<b>8896.38</b>	<b>51</b>	<b>2114.70</b>
X	Bukidnon	80	2699.51	19	574.95	2	179.50	1	20.00	82	2879.01	20	594.95
	Camiguin	22	629.80	0	0.00	0	0.00	2	12.00	22	629.80	2	12.00
	Misamis Occidental	57	1663.35	9	148.20	1	5.05	1	50.00	58	1668.40	10	198.20
	Misamis Oriental	99	5637.06	10	358.40	12	273.10	24	434.80	111	5910.16	34	793.20
	<b>Sub-total</b>	<b>258</b>	<b>10629.72</b>	<b>38</b>	<b>1081.55</b>	<b>15</b>	<b>457.65</b>	<b>28</b>	<b>516.80</b>	<b>273</b>	<b>11087.37</b>	<b>66</b>	<b>1598.35</b>
XI	Davao del Norte	65	2746.51	12	405.00	33	1025.00	26	598.20	98	3771.51	38	1003.20
	Davao del Sur	34	997.39	14	1159.00	5	174.00	3	174.00	39	1171.39	17	1333.00
	Davao Oriental	53	3332.01	32	676.00	0	0.00	0	0.00	53	3332.01	32	676.00
	South Cotabato	26	1306.20	9	183.30	3	76.80	3	65.00	29	1383.00	12	268.30
	Sarangani	38	1970.95	16	512.55	2	24.00	17	380.00	40	1994.95	33	892.55
	Davao City	21	1166.21	5	87.00	0	0.00	0	0.00	21	1166.21	5	87.00
	<b>Sub-total</b>	<b>237</b>	<b>11519.27</b>	<b>88</b>	<b>3021.85</b>	<b>43</b>	<b>1299.80</b>	<b>49</b>	<b>1237.20</b>	<b>280</b>	<b>12619.07</b>	<b>137</b>	<b>4269.05</b>
XII	Lanao del Norte	46	1829.84	11	276.00	5	67.60	21	538.00	51	1897.44	32	814.00
	North Cotabato	78	2468.86	41	1252.69	3	90.00	4	107.00	81	2558.86	45	1359.69
	Sultan Kudarat	21	616.75	54	947.00	19	859.78	24	505.00	40	1476.53	78	1452.00
	<b>Sub-total</b>	<b>145</b>	<b>4915.45</b>	<b>106</b>	<b>2475.69</b>	<b>27</b>	<b>1017.38</b>	<b>49</b>	<b>1150.00</b>	<b>172</b>	<b>5932.83</b>	<b>155</b>	<b>3625.69</b>
XIII	Agusan del Norte	55	2611.09	7	198.30	4	279.57	14	750.50	59	2890.66	21	948.80
	Agusan del Sur	66	2824.81	9	301.60	6	258.00	27	1129.00	72	3082.81	36	1430.80
	Surigao del Norte	48	1816.40	6	185.30	11	293.12	47	1048.00	59	2109.52	53	1233.30
	Surigao del Sur	73	3646.03	103	2330.35	0	0.00	2	41.00	73	3646.03	105	2371.35
	<b>Sub-total</b>	<b>242</b>	<b>10898.33</b>	<b>125</b>	<b>3015.76</b>	<b>21</b>	<b>830.69</b>	<b>90</b>	<b>2968.60</b>	<b>263</b>	<b>11729.02</b>	<b>215</b>	<b>5984.25</b>
ARMM	Lanao del Sur	34	1214.75	35	637.55	2	50.00	21	298.00	36	1264.75	56	935.55
	Maguindanao	35	1396.72	10	267.15	5	122.40	25	735.80	40	1519.12	35	1002.95
	<b>Sub-total</b>	<b>69</b>	<b>2611.47</b>	<b>45</b>	<b>904.70</b>	<b>7</b>	<b>172.40</b>	<b>46</b>	<b>1033.80</b>	<b>76</b>	<b>2783.87</b>	<b>91</b>	<b>1938.50</b>
<b>Study Area Total</b>		<b>3104</b>	<b>120813.37</b>	<b>1174</b>	<b>31843.11</b>	<b>336</b>	<b>10735.28</b>	<b>454</b>	<b>12410.13</b>	<b>3440</b>	<b>131548.65</b>	<b>1628</b>	<b>44253.24</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Bridge Type Summary for Arterial Roads**

Region	Province	North-South Backbone				East-West Lateral				Other Roads of Strategic Importance			
		Permanent Bridge		Temporary Bridge		Permanent Bridge		Temporary Bridge		Permanent Bridge		Temporary Bridge	
		No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
IV-B	Marinduque	0	0.00	0	0.00	0	0.00	0	0.00	34	1240.85	4	65.60
	Occidental Mindoro	3	144.10	0	0.00	0	0.00	0	0.00	57	3825.56	49	3375.20
	Oriental Mindoro	60	1733.90	13	591.60	2	51.00	1	66.00	19	718.20	3	144.00
	Palawan	0	0.00	0	0.00	0	0.00	0	0.00	129	4193.51	101	1847.40
	Romblon	0	0.00	0	0.00	0	0.00	0	0.00	40	1035.25	9	190.20
	<b>Sub-total</b>	<b>63</b>	<b>1878.00</b>	<b>13</b>	<b>591.60</b>	<b>2</b>	<b>51.00</b>	<b>1</b>	<b>66.00</b>	<b>279</b>	<b>11014.37</b>	<b>166</b>	<b>5622.40</b>
V	Masbate	0	0.00	0	0.00	0	0.00	0	0.00	21	733.10	2	100.40
	Catanduanes	0	0.00	0	0.00	0	0.00	0	0.00	42	1713.50	12	437.00
	<b>Sub-total</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>63</b>	<b>2446.60</b>	<b>14</b>	<b>537.40</b>
VI	Aklan	25	1333.20	1	22.00	0	0.00	0	0.00	9	316.00	3	96.00
	Antique	0	0.00	0	0.00	0	0.00	15	763.00	76	3436.61	56	2122.00
	Capiz	14	563.30	0	0.00	27	841.50	0	0.00	25	1046.80	4	148.90
	Iloilo	59	2439.45	16	364.00	10	637.50	0	0.00	34	1264.85	0	0.00
	Guimaras	0	0.00	0	0.00	0	0.00	0	0.00	7	258.00	11	205.80
	Negros Occidental	85	3914.10	0	0.00	17	503.50	3	100.00	55	1112.50	4	48.00
	Iloilo City	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>183</b>	<b>8250.05</b>	<b>17</b>	<b>386.00</b>	<b>54</b>	<b>1982.50</b>	<b>18</b>	<b>863.00</b>	<b>206</b>	<b>7434.76</b>	<b>78</b>	<b>2620.70</b>
VII	Bahol	63	1748.20	2	18.20	17	399.85	1	9.20	18	465.90	0	0.00
	Cebu	31	1015.75	1	61.10	2	49.75	3	26.95	71	2983.05	35	624.40
	Negros Oriental	70	2045.25	0	0.00	9	229.70	1	9.00	47	2107.10	3	105.00
	Siquijor	0	0.00	0	0.00	0	0.00	0	0.00	8	142.40	0	0.00
	<b>Sub-total</b>	<b>164</b>	<b>4808.20</b>	<b>3</b>	<b>79.30</b>	<b>28</b>	<b>679.30</b>	<b>5</b>	<b>45.15</b>	<b>144</b>	<b>5696.45</b>	<b>38</b>	<b>729.40</b>
VIII	Leyte	47	1918.00	0	0.00	16	559.65	1	180.00	137	4508.90	25	535.00
	Southern Leyte	32	1490.35	0	0.00	0	0.00	0	0.00	55	1480.47	0	0.00
	Biliran	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Eastern Samar	0	0.00	0	0.00	18	529.30	20	349.25	24	1499.45	23	909.50
	Northern Samar	15	847.15	0	0.00	26	793.10	0	0.00	38	1509.40	0	0.00
	Western Samar	55	2350.65	0	0.00	21	548.30	3	36.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>149</b>	<b>6604.15</b>	<b>0</b>	<b>0.00</b>	<b>61</b>	<b>2430.35</b>	<b>24</b>	<b>565.25</b>	<b>254</b>	<b>8996.22</b>	<b>48</b>	<b>1444.50</b>
IX	Zamboanga del Norte	0	0.00	0	0.00	0	0.00	0	0.00	70	3838.79	15	428.60
	Zamboanga del Sur	89	2751.96	0	0.00	4	105.12	0	0.00	22	610.24	9	243.10
	<b>Sub-total</b>	<b>89</b>	<b>2751.96</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>105.12</b>	<b>0</b>	<b>0.00</b>	<b>92</b>	<b>4449.03</b>	<b>24</b>	<b>671.70</b>
X	Bukidnon	31	1323.75	1	45.76	2	53.45	0	0.00	0	0.00	2	64.05
	Camiguin	0	0.00	0	0.00	0	0.00	0	0.00	22	629.80	0	0.00
	Misamis Occidental	0	0.00	0	0.00	0	0.00	0	0.00	45	1252.30	0	0.00
	Misamis Oriental	86	5062.18	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>117</b>	<b>6385.93</b>	<b>1</b>	<b>45.76</b>	<b>2</b>	<b>53.45</b>	<b>0</b>	<b>0.00</b>	<b>67</b>	<b>1882.10</b>	<b>2</b>	<b>64.05</b>
XI	Davao del Norte	24	1022.53	0	0.00	14	687.70	0	0.00	0	0.00	0	0.00
	Davao del Sur	13	406.90	0	0.00	13	329.00	0	0.00	7	235.99	9	749.00
	Davao Oriental	0	0.00	0	0.00	0	0.00	0	0.00	44	3080.35	27	564.00
	South Cotabato	11	487.70	0	0.00	0	0.00	0	0.00	10	669.30	0	0.00
	Sarangani	4	127.00	0	0.00	0	0.00	0	0.00	34	1843.95	16	512.55
	Davao City	21	1166.21	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>73</b>	<b>3210.34</b>	<b>0</b>	<b>0.00</b>	<b>27</b>	<b>1016.70</b>	<b>0</b>	<b>0.00</b>	<b>95</b>	<b>5829.59</b>	<b>52</b>	<b>1825.55</b>
XII	Lanao del Norte	46	1829.84	6	93.00	0	0.00	0	0.00	0	0.00	0	0.00
	North Cotabato	0	0.00	0	0.00	30	685.51	0	0.00	20	786.15	0	0.00
	Sultan Kudarat	4	281.00	0	0.00	0	0.00	0	0.00	12	246.95	54	947.00
	<b>Sub-total</b>	<b>50</b>	<b>2110.84</b>	<b>6</b>	<b>93.00</b>	<b>30</b>	<b>685.51</b>	<b>0</b>	<b>0.00</b>	<b>32</b>	<b>1033.10</b>	<b>54</b>	<b>947.00</b>
XIII	Agusan del Norte	44	2169.07	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Agusan del Sur	38	1733.40	0	0.00	8	412.71	3	42.30	0	0.00	0	0.00
	Surigao del Norte	25	775.61	0	0.00	0	0.00	0	0.00	19	847.66	5	166.70
	Surigao del Sur	0	0.00	0	0.00	0	0.00	0	0.00	51	2860.73	93	1753.25
	<b>Sub-total</b>	<b>107</b>	<b>4678.08</b>	<b>0</b>	<b>0.00</b>	<b>8</b>	<b>412.71</b>	<b>3</b>	<b>42.30</b>	<b>70</b>	<b>3708.39</b>	<b>98</b>	<b>1919.95</b>
ARMM	Lanao del Sur	15	609.90	0	0.00	9	303.50	16	346.55	11	258.35	14	226.00
	Maguindanao	19	992.60	1	9.00	2	23.95	0	0.00	4	122.00	6	105.15
	<b>Sub-total</b>	<b>34</b>	<b>1602.50</b>	<b>1</b>	<b>9.00</b>	<b>11</b>	<b>327.45</b>	<b>16</b>	<b>346.55</b>	<b>15</b>	<b>380.35</b>	<b>20</b>	<b>331.15</b>
<b>Study Area Total</b>		<b>1029</b>	<b>42281.05</b>	<b>41</b>	<b>1204.65</b>	<b>247</b>	<b>7744.09</b>	<b>67</b>	<b>1928.25</b>	<b>1317</b>	<b>52872.96</b>	<b>594</b>	<b>16713.80</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Bridge Type Summary per Road Functional Classification**

Region	Province	Arterial Roads				National Secondary				Total			
		Permanent Bridge		Temporary Bridge		Permanent Bridge		Temporary Bridge		Permanent Bridge		Temporary Bridge	
		No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
IV-B	Marinduque	34	1240.85	4	65.60	4	182.00	9	186.50	38	1422.85	13	252.10
	Occidental Mindoro	60	3969.60	49	3375.20	1	30.00	3	825.00	61	3999.66	52	4200.20
	Oriental Mindoro	81	2503.10	17	801.60	0	0.00	0	0.00	81	2503.10	17	801.60
	Palawan	129	4193.51	101	1847.40	7	163.00	0	0.00	136	4356.51	101	1847.40
	Romblon	40	1036.25	9	190.20	18	695.35	49	854.29	58	1731.60	58	1044.49
	<b>Sub-total</b>	<b>344</b>	<b>12943.37</b>	<b>180</b>	<b>6280.00</b>	<b>30</b>	<b>1070.36</b>	<b>61</b>	<b>1865.79</b>	<b>374</b>	<b>14013.72</b>	<b>241</b>	<b>8146.79</b>
V	Masbate	21	733.10	2	100.40	8	393.80	25	402.20	29	1126.90	27	502.60
	Catanduanes	42	1713.50	12	437.00	1	25.00	15	429.80	43	1738.50	27	866.80
	<b>Sub-total</b>	<b>63</b>	<b>2446.60</b>	<b>14</b>	<b>637.40</b>	<b>9</b>	<b>418.80</b>	<b>40</b>	<b>832.00</b>	<b>72</b>	<b>2865.40</b>	<b>54</b>	<b>1369.40</b>
VI	Aklan	34	1649.20	4	118.00	0	0.00	0	0.00	34	1649.20	4	118.00
	Antique	76	3436.61	71	2885.00	0	0.00	0	0.00	76	3436.61	71	2885.00
	Capiz	66	2451.60	4	148.90	0	0.00	0	0.00	66	2451.60	4	148.90
	Iloilo	103	4341.80	16	364.00	26	1131.45	9	323.70	129	5473.25	25	687.70
	Guimaras	7	258.00	11	205.80	0	0.00	0	0.00	7	258.00	11	205.80
	Negros Occidental	157	6530.10	7	148.00	53	1087.00	20	816.50	210	6617.10	27	964.50
	Iloilo City	0	0.00	0	0.00	7	409.00	0	0.00	7	409.00	0	0.00
	<b>Sub-total</b>	<b>443</b>	<b>17667.31</b>	<b>113</b>	<b>3869.70</b>	<b>86</b>	<b>2627.45</b>	<b>29</b>	<b>1140.20</b>	<b>529</b>	<b>20294.76</b>	<b>142</b>	<b>5009.90</b>
VII	Bohol	98	2613.95	3	27.40	30	818.50	15	256.15	128	3432.45	18	283.55
	Cebu	104	4048.55	39	712.45	19	368.10	5	45.92	123	4416.65	44	758.37
	Negros Oriental	126	4382.05	4	114.00	0	0.00	0	0.00	126	4382.05	4	114.00
	Siquijor	8	142.40	0	0.00	0	0.00	0	0.00	8	142.40	0	0.00
	<b>Sub-total</b>	<b>336</b>	<b>11186.95</b>	<b>46</b>	<b>853.85</b>	<b>49</b>	<b>1186.60</b>	<b>20</b>	<b>302.07</b>	<b>385</b>	<b>12373.55</b>	<b>66</b>	<b>1155.92</b>
VIII	Leyte	200	6982.55	26	715.00	68	2406.70	95	1665.65	268	9389.25	121	2380.65
	Southern Leyte	87	2970.82	0	0.00	7	361.40	68	1146.06	94	3332.22	68	1146.06
	Biliran	0	0.00	0	0.00	13	623.00	30	494.50	13	623.00	30	494.50
	Eastern Samar	42	2028.75	43	1258.75	25	1118.75	0	0.00	67	3147.50	43	1258.75
	Northern Samar	79	3149.65	0	0.00	0	0.00	0	0.00	79	3149.65	0	0.00
	Western Samar	76	2898.95	3	36.00	11	347.05	0	0.00	87	3246.00	3	36.00
	<b>Sub-total</b>	<b>464</b>	<b>18030.72</b>	<b>72</b>	<b>2009.76</b>	<b>124</b>	<b>4866.90</b>	<b>193</b>	<b>3306.21</b>	<b>608</b>	<b>22887.62</b>	<b>265</b>	<b>5315.96</b>
IX	Zamboanga del Norte	70	3838.79	15	428.60	11	823.45	3	112.00	81	4662.24	18	540.60
	Zamboanga del Sur	115	3467.32	9	243.10	10	319.02	0	0.00	125	3786.34	9	243.10
	<b>Sub-total</b>	<b>185</b>	<b>7306.11</b>	<b>24</b>	<b>671.70</b>	<b>21</b>	<b>1142.47</b>	<b>3</b>	<b>112.00</b>	<b>206</b>	<b>8448.58</b>	<b>27</b>	<b>783.70</b>
X	Bukidnon	33	1377.20	3	109.80	47	1322.31	16	465.15	80	2899.51	19	574.95
	Camiguin	22	629.80	0	0.00	0	0.00	0	0.00	22	629.80	0	0.00
	Misamis Occidental	45	1252.30	0	0.00	12	411.05	9	148.20	57	1663.35	9	148.20
	Misamis Oriental	86	5062.18	0	0.00	13	574.88	10	358.40	99	5637.06	10	358.40
	<b>Sub-total</b>	<b>186</b>	<b>8321.48</b>	<b>3</b>	<b>109.80</b>	<b>72</b>	<b>2308.24</b>	<b>35</b>	<b>971.75</b>	<b>258</b>	<b>10629.72</b>	<b>38</b>	<b>1081.55</b>
XI	Davao del Norte	38	1710.23	0	0.00	27	1036.28	12	405.00	65	2746.51	12	405.00
	Davao del Sur	33	971.89	9	749.00	1	25.50	5	410.00	34	997.39	14	1159.00
	Davao Oriental	44	3080.35	27	564.00	9	251.66	5	111.00	53	3332.01	32	675.00
	South Cotabato	21	1157.00	0	0.00	5	149.20	9	183.30	26	1306.20	9	183.30
	Sarangani	38	1970.95	16	512.55	0	0.00	0	0.00	38	1970.95	16	512.55
	Davao City	21	1166.21	0	0.00	0	0.00	5	87.00	21	1166.21	5	87.00
	<b>Sub-total</b>	<b>195</b>	<b>10056.63</b>	<b>52</b>	<b>1825.55</b>	<b>42</b>	<b>1462.64</b>	<b>36</b>	<b>1196.30</b>	<b>237</b>	<b>11519.27</b>	<b>88</b>	<b>3621.85</b>
XII	Lanao del Norte	46	1829.84	6	93.00	0	0.00	5	183.00	46	1829.84	11	276.00
	North Cotabato	50	1471.66	0	0.00	28	997.20	25	1107.69	78	2468.86	25	1107.69
	Sultan Kudarat	16	527.95	54	947.00	5	88.80	0	0.00	21	616.75	54	947.00
	<b>Sub-total</b>	<b>112</b>	<b>3829.45</b>	<b>60</b>	<b>1040.00</b>	<b>33</b>	<b>1086.00</b>	<b>30</b>	<b>1290.69</b>	<b>145</b>	<b>4915.45</b>	<b>90</b>	<b>2330.69</b>
XIII	Agusan del Norte	44	2169.07	0	0.00	11	442.02	7	198.30	55	2611.09	7	198.30
	Agusan del Sur	46	2146.11	3	42.30	20	678.70	6	269.50	66	2824.81	9	301.80
	Surigao del Norte	44	1623.27	5	166.70	4	193.13	1	18.60	48	1816.40	6	185.30
	Surigao del Sur	51	2860.73	93	1753.25	22	785.30	10	577.10	73	3648.03	103	2330.35
	<b>Sub-total</b>	<b>185</b>	<b>8799.18</b>	<b>101</b>	<b>1962.25</b>	<b>67</b>	<b>2099.15</b>	<b>24</b>	<b>1053.50</b>	<b>242</b>	<b>10898.33</b>	<b>125</b>	<b>3015.75</b>
ARMM	Lanao del Sur	35	1171.75	30	572.55	1	93.00	5	65.00	36	1264.75	35	637.55
	Maguindanao	25	1138.55	7	114.15	10	258.17	3	163.00	35	1396.72	10	267.15
	<b>Sub-total</b>	<b>60</b>	<b>2310.30</b>	<b>37</b>	<b>686.70</b>	<b>11</b>	<b>351.17</b>	<b>8</b>	<b>218.00</b>	<b>71</b>	<b>2661.47</b>	<b>45</b>	<b>904.70</b>
<b>Study Area Total</b>		<b>2593</b>	<b>102898.10</b>	<b>702</b>	<b>19846.70</b>	<b>534</b>	<b>18609.77</b>	<b>479</b>	<b>12288.51</b>	<b>3127</b>	<b>121507.87</b>	<b>1181</b>	<b>32135.21</b>



**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Condition of Permanent Bridges in National Roads**

Region	Province	Permanent Bridge		Permanent Bridge Requiring Minor Repair		Permanent Bridge Requiring Major Repair / Reconstruction	
		No.	Length	No.	Length	No.	Length
IV-B	Marinduque	38	1422.85	4	103.40	0	0.00
	Occidental Mindoro	48	3620.71	8	918.10	5	205.70
	Oriental Mindoro	81	2503.10	23	463.65	4	79.80
	Palawan	136	4356.51	52	1640.46	3	233.70
	Romblon	58	1731.60	16	556.60	6	190.45
	<b>Sub-total</b>	<b>361</b>	<b>13634.77</b>	<b>103</b>	<b>3682.21</b>	<b>18</b>	<b>709.65</b>
V	Masbate	29	1126.90	6	162.95	0	0.00
	Calanduanes	43	1738.50	5	222.30	5	120.80
	<b>Sub-total</b>	<b>72</b>	<b>2865.40</b>	<b>11</b>	<b>385.25</b>	<b>5</b>	<b>120.80</b>
VI	Aklan	34	1649.20	5	615.00	4	69.00
	Antique	76	3436.61	9	380.30	6	148.40
	Capiz	66	2451.60	7	302.00	18	524.00
	Iloilo	129	5473.25	50	1790.00	14	692.90
	Guimaras	7	258.00	0	0.00	0	0.00
	Negros Occidental	210	6617.10	13	667.70	9	410.70
	Iloilo City	7	409.00	1	35.00	2	241.00
	<b>Sub-total</b>	<b>529</b>	<b>20294.78</b>	<b>85</b>	<b>3790.00</b>	<b>53</b>	<b>2086.00</b>
VII	Bohol	128	3432.45	1	23.80	1	11.85
	Cebu	115	4151.10	2	91.45	0	0.00
	Negros Oriental	126	4382.05	4	346.00	0	0.00
	Siquijor	8	142.40	0	0.00	0	0.00
	<b>Sub-total</b>	<b>377</b>	<b>12108.00</b>	<b>7</b>	<b>461.25</b>	<b>1</b>	<b>11.85</b>
VIII	Leyte	268	9389.25	87	3233.35	23	939.90
	Southern Leyte	94	3332.22	26	1472.05	6	140.90
	Billiran	13	623.00	3	89.65	0	0.00
	Eastern Samar	67	3147.50	13	600.10	17	1062.35
	Northern Samar	79	3149.65	6	209.85	8	650.65
	Western Samar	87	3246.00	38	1436.60	20	917.60
	<b>Sub-total</b>	<b>608</b>	<b>22887.62</b>	<b>173</b>	<b>7041.60</b>	<b>74</b>	<b>3711.40</b>
IX	Zamboanga del Norte	81	4662.24	4	237.90	5	215.00
	Zamboanga del Sur	125	3786.34	59	1695.15	1	6.00
	<b>Sub-total</b>	<b>206</b>	<b>8448.58</b>	<b>63</b>	<b>1933.05</b>	<b>6</b>	<b>221.00</b>
X	Bukidnon	80	2699.51	6	230.45	1	49.90
	Camiguin	22	629.80	2	51.00	0	0.00
	Misamis Occidental	57	1863.35	15	443.00	6	183.10
	Misamis Oriental	99	5637.06	40	2817.82	1	30.00
	<b>Sub-total</b>	<b>258</b>	<b>10629.72</b>	<b>63</b>	<b>3542.27</b>	<b>8</b>	<b>263.00</b>
XI	Davao del Norte	65	2746.51	2	43.00	0	0.00
	Davao del Sur	34	997.39	2	40.00	0	0.00
	Davao Oriental	53	3332.01	1	45.00	0	0.00
	South Cotabato	26	1306.20	0	0.00	0	0.00
	Sarangani	38	1970.95	0	0.00	0	0.00
	Davao City	21	1166.21	0	0.00	0	0.00
	<b>Sub-total</b>	<b>237</b>	<b>11519.27</b>	<b>5</b>	<b>128.00</b>	<b>0</b>	<b>0.00</b>
XII	Lanao del Norte	46	1829.84	5	371.90	1	62.52
	North Cotabato	78	2468.86	32	947.60	2	49.13
	Sultan Kudarat	21	616.75	0	0.00	3	72.80
	<b>Sub-total</b>	<b>145</b>	<b>4915.45</b>	<b>37</b>	<b>1319.50</b>	<b>6</b>	<b>184.45</b>
XIII	Agusan del Norte	55	2611.09	32	1589.84	1	12.00
	Agusan del Sur	66	2824.81	0	0.00	0	0.00
	Surigao del Norte	48	1816.40	22	680.68	0	0.00
	Surigao del Sur	73	3646.03	34	1723.80	6	627.00
	<b>Sub-total</b>	<b>242</b>	<b>10898.33</b>	<b>88</b>	<b>3994.32</b>	<b>7</b>	<b>639.00</b>
ARMM	Lanao del Sur	34	1214.75	1	83.00	1	45.00
	Maguindanao	35	1396.72	11	450.17	10	499.35
	<b>Sub-total</b>	<b>69</b>	<b>2611.47</b>	<b>12</b>	<b>533.17</b>	<b>11</b>	<b>544.35</b>
<b>Study Area Total</b>		<b>3104</b>	<b>120813.37</b>	<b>647</b>	<b>26810.62</b>	<b>189</b>	<b>8491.50</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Condition of Permanent Bridges in Provincial Roads**

Region	Province	Permanent Bridge		Permanent Bridge Requiring Minor Repair		Permanent Bridge Requiring Major Repair / Reconstruction	
		No.	Length	No.	Length	No.	Length
IV-B	Marinduque	0	0.00	0	0.00	0	0.00
	Occidental Mindoro	28	1051.55	8	276.00	0	0.00
	Oriental Mindoro	21	765.10	8	239.50	2	158.30
	Palawan	6	156.01	3	76.00	0	0.00
	Romblon	3	110.30	2	96.00	0	0.00
	<b>Sub-total</b>	<b>58</b>	<b>2082.96</b>	<b>21</b>	<b>687.50</b>	<b>2</b>	<b>158.30</b>
V	Masbate	3	52.00	0	0.00	1	12.00
	Catanduanes	9	303.20	3	167.00	0	0.00
	<b>Sub-total</b>	<b>12</b>	<b>355.20</b>	<b>3</b>	<b>167.00</b>	<b>1</b>	<b>12.00</b>
VI	Aklan	26	662.20	5	62.00	0	0.00
	Antique	3	48.00	0	0.00	0	0.00
	Capiz	8	205.50	0	0.00	5	153.50
	Iloilo	12	452.20	0	0.00	2	58.30
	Guimaras	0	0.00	0	0.00	0	0.00
	Negros Occidental	10	303.60	0	0.00	1	7.00
	Iloilo City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>59</b>	<b>1671.50</b>	<b>5</b>	<b>62.00</b>	<b>8</b>	<b>218.80</b>
VII	Bohol	5	127.65	0	0.00	0	0.00
	Cebu	30	822.30	2	65.00	1	27.00
	Negros Oriental	7	179.00	0	0.00	0	0.00
	Siquijor	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>42</b>	<b>1128.95</b>	<b>2</b>	<b>65.00</b>	<b>1</b>	<b>27.00</b>
VIII	Leyte	4	223.35	1	150.85	2	44.50
	Southern Leyte	2	30.00	0	0.00	0	0.00
	Biliran	0	0.00	0	0.00	0	0.00
	Eastern Samar	0	0.00	0	0.00	0	0.00
	Northern Samar	23	710.05	1	45.00	0	0.00
	Western Samar	13	307.55	1	64.00	2	29.80
	<b>Sub-total</b>	<b>42</b>	<b>1270.95</b>	<b>3</b>	<b>259.85</b>	<b>4</b>	<b>74.30</b>
IX	Zamboanga del Norte	1	182.00	0	0.00	0	0.00
	Zamboanga del Sur	9	265.80	3	89.60	0	0.00
	<b>Sub-total</b>	<b>10</b>	<b>447.80</b>	<b>3</b>	<b>89.60</b>	<b>0</b>	<b>0.00</b>
X	Bukidnon	2	179.50	0	0.00	0	0.00
	Camiguin	0	0.00	0	0.00	0	0.00
	Misamis Occidental	1	5.05	0	0.00	0	0.00
	Misamis Oriental	12	273.10	1	19.40	0	0.00
	<b>Sub-total</b>	<b>15</b>	<b>457.65</b>	<b>1</b>	<b>19.40</b>	<b>0</b>	<b>0.00</b>
XI	Davao del Norte	33	1025.00	0	0.00	2	78.00
	Davao del Sur	5	174.00	0	0.00	0	0.00
	Davao Oriental	0	0.00	0	0.00	0	0.00
	South Cotabato	3	76.80	0	0.00	0	0.00
	Sarangani	2	24.00	0	0.00	0	0.00
	Davao City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>43</b>	<b>1299.80</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>78.00</b>
XII	Lanao del Norte	5	67.60	0	0.00	0	0.00
	North Cotabato	3	90.00	0	0.00	0	0.00
	Sultan Kudarat	19	859.78	1	26.00	1	12.00
	<b>Sub-total</b>	<b>27</b>	<b>1017.38</b>	<b>1</b>	<b>26.00</b>	<b>1</b>	<b>12.00</b>
XIII	Agusan del Norte	4	279.57	0	0.00	0	0.00
	Agusan del Sur	6	258.00	1	28.00	0	0.00
	Surigao del Norte	11	293.12	0	0.00	1	49.90
	Surigao del Sur	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>21</b>	<b>830.69</b>	<b>1</b>	<b>28.00</b>	<b>1</b>	<b>49.90</b>
ARMM	Lanao del Sur	2	50.00	0	0.00	0	0.00
	Maguindanao	5	122.40	0	0.00	0	0.00
	<b>Sub-total</b>	<b>7</b>	<b>172.40</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
<b>Study Area Total</b>		<b>336</b>	<b>10735.28</b>	<b>40</b>	<b>1404.35</b>	<b>20</b>	<b>630.30</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Condition of Permanent Bridges in North-South Backbone Roads**

Region	Province	Permanent Bridge		Permanent Bridge Requiring Minor Repair		Permanent Bridge Requiring Major Repair / Reconstruction	
		No.	Length	No.	Length	No.	Length
IV-B	Marinduque	0	0.00	0	0.00	0	0.00
	Occidental Mindoro	3	144.10	2	120.10	0	0.00
	Oriental Mindoro	60	1733.90	21	304.65	4	79.80
	Palawan	0	0.00	0	0.00	0	0.00
	Romblon	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>63</b>	<b>1878.00</b>	<b>23</b>	<b>424.75</b>	<b>4</b>	<b>79.80</b>
V	Masbate	0	0.00	0	0.00	0	0.00
	Catanduanes	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
VI	Aklan	25	1333.20	4	515.00	3	63.00
	Antique	0	0.00	0	0.00	0	0.00
	Capiz	14	563.30	1	27.00	5	149.00
	Iloilo	59	2439.45	22	748.15	4	239.20
	Guimaras	0	0.00	0	0.00	0	0.00
	Negros Occidental	85	3914.10	6	354.00	0	0.00
	Iloilo City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>183</b>	<b>8250.05</b>	<b>33</b>	<b>1644.15</b>	<b>12</b>	<b>451.20</b>
VII	Bohol	63	1748.20	0	0.00	1	11.85
	Cebu	31	1015.75	0	0.00	0	0.00
	Negros Oriental	70	2045.25	3	310.00	0	0.00
	Siquijor	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>164</b>	<b>4809.20</b>	<b>3</b>	<b>310.00</b>	<b>1</b>	<b>11.85</b>
VIII	Leyte	47	1916.00	27	1162.45	5	238.60
	Southern Leyte	32	1490.35	16	900.95	3	74.80
	Biliran	0	0.00	0	0.00	0	0.00
	Eastern Samar	0	0.00	0	0.00	0	0.00
	Northern Samar	15	847.15	3	79.05	5	404.55
	Western Samar	55	2350.65	29	1173.45	15	757.40
	<b>Sub-total</b>	<b>149</b>	<b>6604.15</b>	<b>75</b>	<b>3315.90</b>	<b>28</b>	<b>1475.35</b>
IX	Zamboanga del Norte	0	0.00	0	0.00	0	0.00
	Zamboanga del Sur	89	2751.96	37	1115.95	1	6.00
	<b>Sub-total</b>	<b>89</b>	<b>2751.96</b>	<b>37</b>	<b>1115.95</b>	<b>1</b>	<b>6.00</b>
X	Bukidnon	31	1323.75	4	137.10	0	0.00
	Camiguin	0	0.00	0	0.00	0	0.00
	Misamis Occidental	0	0.00	0	0.00	0	0.00
	Misamis Oriental	86	5062.18	32	2386.32	1	30.00
	<b>Sub-total</b>	<b>117</b>	<b>6385.93</b>	<b>36</b>	<b>2523.42</b>	<b>1</b>	<b>30.00</b>
XI	Davao del Norte	24	1022.53	0	0.00	0	0.00
	Davao del Sur	13	406.90	0	0.00	0	0.00
	Davao Oriental	0	0.00	0	0.00	0	0.00
	South Cotabato	11	487.70	0	0.00	0	0.00
	Sarangani	4	127.00	0	0.00	0	0.00
	Davao City	21	1166.21	0	0.00	0	0.00
	<b>Sub-total</b>	<b>73</b>	<b>3210.34</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
XII	Lanao del Norte	46	1829.84	5	371.90	1	62.52
	North Cotabato	0	0.00	0	0.00	0	0.00
	Sultan Kudarat	4	281.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>50</b>	<b>2110.84</b>	<b>5</b>	<b>371.90</b>	<b>1</b>	<b>62.52</b>
XIII	Agusan del Norte	44	2169.07	31	1548.02	1	12.00
	Agusan del Sur	38	1733.40	0	0.00	0	0.00
	Surigao del Norte	25	775.61	17	529.76	0	0.00
	Surigao del Sur	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>107</b>	<b>4678.08</b>	<b>48</b>	<b>2077.78</b>	<b>1</b>	<b>12.00</b>
ARMM	Lanao del Sur	15	609.90	1	83.00	1	45.00
	Maguindanao	19	992.60	8	372.55	6	394.60
	<b>Sub-total</b>	<b>34</b>	<b>1602.50</b>	<b>9</b>	<b>455.55</b>	<b>7</b>	<b>439.60</b>
<b>Study Area Total</b>		<b>1029</b>	<b>42281.05</b>	<b>269</b>	<b>12239.40</b>	<b>56</b>	<b>2568.32</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Condition of Permanent Bridges In East-West Lateral Roads**

Region	Province	Permanent Bridge		Permanent Bridge Requiring Minor Repair		Permanent Bridge Requiring Major Repair / Reconstruction	
		No.	Length	No.	Length	No.	Length
IV-B	Marinduque	0	0.00	0	0.00	0	0.00
	Occidental Mindoro	0	0.00	0	0.00	0	0.00
	Oriental Mindoro	2	51.00	0	0.00	0	0.00
	Palawan	0	0.00	0	0.00	0	0.00
	Romblon	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>2</b>	<b>51.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
V	Masbate	0	0.00	0	0.00	0	0.00
	Calanduanes	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
VI	Aklan	0	0.00	0	0.00	0	0.00
	Antique	0	0.00	0	0.00	0	0.00
	Capiz	27	841.50	3	84.00	7	221.50
	Iloilo	10	637.50	1	16.00	2	155.70
	Guimaras	0	0.00	0	0.00	0	0.00
	Negros Occidental	17	503.50	2	69.60	5	135.60
	Iloilo City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>54</b>	<b>1982.50</b>	<b>6</b>	<b>169.60</b>	<b>14</b>	<b>512.80</b>
VII	Bohol	17	399.85	0	0.00	0	0.00
	Cebu	2	49.75	0	0.00	0	0.00
	Negros Oriental	9	229.70	0	0.00	0	0.00
	Siquijor	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>28</b>	<b>679.30</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
VIII	Leyte	16	559.65	3	88.15	2	69.00
	Southern Leyte	0	0.00	0	0.00	0	0.00
	Biliran	0	0.00	0	0.00	0	0.00
	Eastern Samar	18	529.30	10	362.80	4	124.70
	Northern Samar	26	793.10	0	0.00	0	0.00
	Western Samar	21	548.30	6	169.70	2	88.80
	<b>Sub-total</b>	<b>81</b>	<b>2430.35</b>	<b>19</b>	<b>620.65</b>	<b>8</b>	<b>282.50</b>
IX	Zamboanga del Norte	0	0.00	0	0.00	0	0.00
	Zamboanga del Sur	4	105.12	3	75.62	0	0.00
	<b>Sub-total</b>	<b>4</b>	<b>105.12</b>	<b>3</b>	<b>75.62</b>	<b>0</b>	<b>0.00</b>
X	Bukidnon	2	53.45	0	0.00	0	0.00
	Camiguin	0	0.00	0	0.00	0	0.00
	Misamis Occidental	0	0.00	0	0.00	0	0.00
	Misamis Oriental	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>2</b>	<b>53.45</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
XI	Davao del Norte	14	687.70	2	43.00	0	0.00
	Davao del Sur	13	329.00	1	20.00	0	0.00
	Davao Oriental	0	0.00	0	0.00	0	0.00
	South Cotabato	0	0.00	0	0.00	0	0.00
	Sarangani	0	0.00	0	0.00	0	0.00
	Davao City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>27</b>	<b>1016.70</b>	<b>3</b>	<b>63.00</b>	<b>0</b>	<b>0.00</b>
XII	Lanao del Norte	0	0.00	0	0.00	0	0.00
	North Cotabato	30	685.51	11	189.55	2	49.13
	Sultan Kudarat	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>30</b>	<b>685.51</b>	<b>11</b>	<b>189.55</b>	<b>2</b>	<b>49.13</b>
XIII	Agusan del Norte	0	0.00	0	0.00	0	0.00
	Agusan del Sur	8	412.71	0	0.00	0	0.00
	Surigao del Norte	0	0.00	0	0.00	0	0.00
	Surigao del Sur	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>8</b>	<b>412.71</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
ARMM	Lanao del Sur	9	303.50	0	0.00	0	0.00
	Maguindanao	2	23.95	0	0.00	2	23.95
	<b>Sub-total</b>	<b>11</b>	<b>327.45</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>23.95</b>
<b>Study Area Total</b>		<b>247</b>	<b>7744.09</b>	<b>42</b>	<b>1118.42</b>	<b>26</b>	<b>868.38</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Condition of Permanent Bridges in Other Roads of Strategic Importance**

Region	Province	Permanent Bridge		Permanent Bridge Requiring Minor Repair		Permanent Bridge Requiring Major Repair / Reconstruction	
		No.	Length	No.	Length	No.	Length
IV-B	Marinduque	34	1240.85	4	103.40	0	0.00
	Occidental Mindoro	57	3825.56	11	963.20	5	205.70
	Oriental Mindoro	19	718.20	2	159.00	0	0.00
	Palawan	129	4193.51	52	1640.46	3	233.70
	Romblon	40	1036.25	10	264.70	5	166.45
	<b>Sub-total</b>	<b>279</b>	<b>11014.37</b>	<b>79</b>	<b>3130.76</b>	<b>13</b>	<b>605.85</b>
V	Masbate	21	733.10	3	87.95	0	0.00
	Catanduanes	42	1713.50	5	222.30	5	120.80
	<b>Sub-total</b>	<b>63</b>	<b>2446.60</b>	<b>8</b>	<b>310.25</b>	<b>5</b>	<b>120.80</b>
VI	Aklan	9	316.00	1	100.00	1	6.00
	Antique	76	3436.61	9	380.30	6	148.40
	Capiz	25	1046.80	3	191.00	6	153.50
	Iloilo	34	1264.85	13	541.60	7	262.80
	Guimaras	7	258.00	0	0.00	0	0.00
	Negros Occidental	55	1112.50	3	200.50	0	0.00
	Iloilo City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>206</b>	<b>7434.76</b>	<b>29</b>	<b>1413.40</b>	<b>20</b>	<b>570.70</b>
VII	Bohol	18	485.90	1	23.80	0	0.00
	Cebu	71	2983.05	3	106.45	0	0.00
	Negros Oriental	47	2107.10	1	36.00	0	0.00
	Siquijor	8	142.40	0	0.00	0	0.00
	<b>Sub-total</b>	<b>144</b>	<b>5698.45</b>	<b>5</b>	<b>166.25</b>	<b>0</b>	<b>0.00</b>
VIII	Leyte	137	4506.90	45	1714.20	11	324.45
	Southern Leyte	55	1480.47	7	410.20	1	12.10
	Biliran	0	0.00	0	0.00	0	0.00
	Eastern Samar	24	1499.45	2	197.20	3	641.95
	Northern Samar	38	1509.40	3	130.80	3	246.10
	Western Samar	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>254</b>	<b>8996.22</b>	<b>57</b>	<b>2452.40</b>	<b>18</b>	<b>1224.60</b>
IX	Zamboanga del Norte	70	3838.79	3	159.90	4	194.00
	Zamboanga del Sur	22	610.24	13	282.49	0	0.00
	<b>Sub-total</b>	<b>92</b>	<b>4449.03</b>	<b>16</b>	<b>442.39</b>	<b>4</b>	<b>194.00</b>
X	Bukidnon	0	0.00	0	0.00	0	0.00
	Camiguin	22	629.80	2	51.00	0	0.00
	Misamis Occidental	45	1252.30	10	252.20	5	126.05
	Misamis Oriental	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>67</b>	<b>1882.10</b>	<b>12</b>	<b>303.20</b>	<b>5</b>	<b>126.05</b>
XI	Davao del Norte	0	0.00	0	0.00	0	0.00
	Davao del Sur	7	235.99	1	20.00	0	0.00
	Davao Oriental	44	3080.35	1	45.00	0	0.00
	South Cotabato	10	669.30	0	0.00	0	0.00
	Sarangani	34	1843.95	0	0.00	0	0.00
	Davao City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>95</b>	<b>5829.59</b>	<b>2</b>	<b>65.00</b>	<b>0</b>	<b>0.00</b>
XII	Lanao del Norte	0	0.00	0	0.00	0	0.00
	North Cotabato	20	786.15	14	435.81	0	0.00
	Sultan Kudarat	12	246.95	0	0.00	1	36.00
	<b>Sub-total</b>	<b>32</b>	<b>1033.10</b>	<b>14</b>	<b>435.81</b>	<b>1</b>	<b>36.00</b>
XIII	Agusan del Norte	0	0.00	0	0.00	0	0.00
	Agusan del Sur	0	0.00	0	0.00	0	0.00
	Surigao del Norte	19	847.66	3	74.59	0	0.00
	Surigao del Sur	51	2860.73	25	1512.40	4	389.10
	<b>Sub-total</b>	<b>70</b>	<b>3708.39</b>	<b>28</b>	<b>1586.99</b>	<b>4</b>	<b>389.10</b>
ARMM	Lanao del Sur	11	258.35	0	0.00	0	0.00
	Maguindanao	4	122.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>15</b>	<b>380.35</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
<b>Study Area Total</b>		<b>1317</b>	<b>52872.96</b>	<b>250</b>	<b>10306.45</b>	<b>70</b>	<b>3267.10</b>

**Master Plan Study on Visayas and Mindanao Islands**  
**Strategic Road Network Development Project**  
**Condition of Permanent Bridges in National Secondary Roads**

Region	Province	Permanent Bridge		Permanent Bridge Requiring Minor Repair		Permanent Bridge Requiring Major Repair / Reconstruction	
		No.	Length	No.	Length	No.	Length
IV-B	Marinduque	4	182.00	0	0.00	0	0.00
	Occidental Mindoro	1	30.00	1	30.00	0	0.00
	Oriental Mindoro	0	0.00	0	0.00	0	0.00
	Palawan	7	163.00	0	0.00	0	0.00
	Romblon	18	695.35	6	291.90	1	24.00
	<b>Sub-total</b>	<b>30</b>	<b>1070.35</b>	<b>7</b>	<b>321.90</b>	<b>1</b>	<b>24.00</b>
V	Masbate	8	393.80	3	75.00	0	0.00
	Catanduanes	1	25.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>9</b>	<b>418.80</b>	<b>3</b>	<b>75.00</b>	<b>0</b>	<b>0.00</b>
VI	Aklan	0	0.00	0	0.00	0	0.00
	Antique	0	0.00	0	0.00	0	0.00
	Capiz	0	0.00	0	0.00	0	0.00
	Iloilo	26	1131.45	14	484.25	1	35.20
	Guimaras	0	0.00	0	0.00	0	0.00
	Negros Occidental	53	1087.00	2	43.60	4	275.10
	Iloilo City	7	409.00	1	35.00	2	241.00
	<b>Sub-total</b>	<b>86</b>	<b>2627.45</b>	<b>17</b>	<b>562.85</b>	<b>7</b>	<b>551.30</b>
VII	Bohol	30	818.50	0	0.00	0	0.00
	Cebu	19	368.10	0	0.00	0	0.00
	Negros Oriental	0	0.00	0	0.00	0	0.00
	Siquijor	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>49</b>	<b>1186.60</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
VIII	Leyte	68	2406.70	12	268.55	5	307.85
	Southern Leyte	7	361.40	3	160.90	2	54.00
	Billiran	13	623.00	3	89.65	0	0.00
	Eastern Samar	25	1118.75	1	40.10	10	295.70
	Northern Samar	0	0.00	0	0.00	0	0.00
	Western Samar	11	347.05	3	93.45	3	71.40
	<b>Sub-total</b>	<b>124</b>	<b>4856.90</b>	<b>22</b>	<b>652.65</b>	<b>20</b>	<b>728.95</b>
IX	Zamboanga del Norte	11	823.45	1	78.00	1	21.00
	Zamboanga del Sur	10	319.02	6	221.09	0	0.00
	<b>Sub-total</b>	<b>21</b>	<b>1142.47</b>	<b>7</b>	<b>299.09</b>	<b>1</b>	<b>21.00</b>
X	Bukidnon	47	1322.31	2	93.35	1	49.90
	Camiguin	0	0.00	0	0.00	0	0.00
	Misamis Occidental	12	411.05	5	190.80	1	57.05
	Misamis Oriental	13	574.88	8	431.50	0	0.00
	<b>Sub-total</b>	<b>72</b>	<b>2308.24</b>	<b>15</b>	<b>715.65</b>	<b>2</b>	<b>106.95</b>
XI	Davao del Norte	27	1036.28	0	0.00	0	0.00
	Davao del Sur	1	25.50	0	0.00	0	0.00
	Davao Oriental	9	251.66	0	0.00	0	0.00
	South Cotabato	5	149.20	0	0.00	0	0.00
	Saranggani	0	0.00	0	0.00	0	0.00
	Davao City	0	0.00	0	0.00	0	0.00
	<b>Sub-total</b>	<b>42</b>	<b>1462.64</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
XII	Lanao del Norte	0	0.00	0	0.00	0	0.00
	North Cotabato	28	997.20	7	322.24	0	0.00
	Sultan Kudarat	5	88.80	0	0.00	2	36.80
	<b>Sub-total</b>	<b>33</b>	<b>1086.00</b>	<b>7</b>	<b>322.24</b>	<b>2</b>	<b>36.80</b>
XIII	Agusan del Norte	11	442.02	1	41.82	0	0.00
	Agusan del Sur	20	678.70	0	0.00	0	0.00
	Surigao del Norte	4	193.13	2	76.33	0	0.00
	Surigao del Sur	22	785.30	9	211.40	2	237.90
	<b>Sub-total</b>	<b>57</b>	<b>2099.15</b>	<b>12</b>	<b>329.55</b>	<b>2</b>	<b>237.90</b>
ARMM	Lanao del Sur	1	93.00	0	0.00	0	0.00
	Maguindanao	10	258.17	3	77.62	2	80.80
	<b>Sub-total</b>	<b>11</b>	<b>351.17</b>	<b>3</b>	<b>77.62</b>	<b>2</b>	<b>80.80</b>
<b>Study Area Total</b>		<b>534</b>	<b>18609.77</b>	<b>93</b>	<b>3356.55</b>	<b>37</b>	<b>1787.70</b>

## **APPENDIX 3.5 - 1**

### **ROAD DENSITY OF NATIONAL ROAD**

Appendix 3.5-1 (1/3) ROAD DENSITY : NATIONAL ROAD

Region	Province	Population (in 1000)	Land Area (sq.km)	Per Capita GRDP	National Road (km)		Pavement Ratio	National Road Density		
					Paved	Un-paved		Paved	Unpaved	Total
PHILIPPINES		68,617.00	300,000.00	27,130.00	15,145.79	11,965.88	0.56	0.11	0.08	0.19
		9,454.00	636.00	68,009.00	858.37	-	1.00	0.35	-	0.35
		25,910.00	107,743.00	21,676.00	6,511.33	3,875.39	0.63	0.12	0.07	0.20
CAR		1,256.00	18,293.70	30,884.00	387.11	1,371.88	0.22	0.08	0.29	0.37
	Abra	196.00	3,975.60	29,367.00	44.27	135.03	0.25	0.05	0.15	0.20
	Benguet	541.00	2,655.40	33,708.00	221.76	386.15	0.36	0.19	0.32	0.51
	Ifugao	150.00	2,517.80	28,340.00	52.46	201.37	0.21	0.09	0.33	0.41
	Kalinga-Apayao	238.00	7,047.60	29,483.00	19.24	378.37	0.05	0.01	0.29	0.31
Region I	Mt. Province	131.00	2,097.30	26,945.00	49.39	270.97	0.15	0.09	0.52	0.61
		3,804.00	12,840.10	15,313.00	1,156.18	336.94	0.77	0.17	0.05	0.21
	Ilocos Norte	483.00	3,399.30	15,298.00	299.40	120.83	0.71	0.23	0.09	0.33
	Ilocos Sur	545.00	2,579.60	15,295.00	209.31	167.07	0.56	0.18	0.14	0.32
	Pangasinan	2,179.00	5,368.20	15,324.00	198.30	19.68	0.91	0.06	0.01	0.06
Region II	La Union	597.00	1,493.00	15,303.00	449.18	29.36	0.94	0.48	0.03	0.51
		2,536.00	26,837.70	16,229.00	820.68	912.58	0.47	0.10	0.11	0.21
	Batanes	14.00	209.30	16,357.00	26.76	56.52	0.32	0.49	1.04	1.54
	Cagayan	895.00	9,002.70	16,298.00	347.50	304.40	0.53	0.12	0.11	0.23
	Isabela	1,161.00	10,664.60	16,206.00	263.93	159.47	0.62	0.08	0.05	0.12
Region III	Nueva Vizcaya	335.00	3,903.90	16,140.00	131.73	186.68	0.41	0.12	0.16	0.28
	Quirino	131.00	3,057.20	16,175.00	50.77	205.51	0.20	0.08	0.32	0.40
		6,933.00	18,230.90	22,829.00	1,490.32	178.15	0.89	0.13	0.02	0.15
	Bataan	491.00	1,373.00	22,758.00	267.91	15.70	0.94	0.33	0.02	0.35
	Bulacan	1,784.00	2,625.00	23,021.00	234.94	24.24	0.91	0.11	0.01	0.12
Region IV-A	Nueva Ecija	1,506.00	5,284.30	22,417.00	351.00	85.72	0.80	0.12	0.03	0.15
	Pampanga	1,637.00	2,180.70	23,297.00	248.43	33.53	0.88	0.13	0.02	0.15
	Tarlac	946.00	3,053.50	22,205.00	195.54	14.93	0.93	0.12	0.01	0.12
	Zambales	569.00	3,714.40	23,602.00	192.51	4.04	0.98	0.13	0.00	0.14
		7,911.00	19,467.30	27,844.00	1,640.84	709.21	0.70	0.13	0.06	0.19
Region IV-A	Aurora	160.00	3,239.50	26,856.00	21.66	202.79	0.10	0.03	0.28	0.31
	Batangas	1,659.00	3,165.00	26,715.00	435.99	88.15	0.83	0.19	0.04	0.23
	Cavite	1,610.00	1,287.60	28,420.00	294.94	8.21	0.97	0.20	0.01	0.21
	Laguna	1,632.00	1,759.70	28,464.00	305.78	45.72	0.87	0.18	0.03	0.21
	Quezon	1,538.00	8,706.60	27,047.00	366.88	336.04	0.52	0.10	0.09	0.19
		1,312.00	1,308.90	28,848.00	215.61	28.31	0.88	0.15	0.02	0.19



Appendix 3.5-1 (2/3) ROAD DENSITY : NATIONAL ROAD

Region	Province	Population (in 1000)	Land Area (sq. km)	Per Capita GRDP	National Road (km)			Pavement Ratio	National Road Density		
					Paved	Un-paved	Total		Paved	Unpaved	Total
Region V	Albay Camarines Norte Camarines Sur Sorsogon	3,470.00	12,073.30	12,937.00	1,016.19	366.62	1,382.81	0.73	0.16	0.06	0.21
		1,005.00	2,552.60	12,975.00	286.14	99.66	385.80	0.74	0.18	0.06	0.24
		439.00	2,112.50	13,023.00	173.86	24.13	197.98	0.88	0.18	0.03	0.21
		1,434.00	5,266.80	12,890.00	289.61	214.29	503.89	0.57	0.11	0.08	0.18
		592.00	2,141.40	12,922.00	266.59	28.54	295.13	0.90	0.24	0.03	0.26
STUDY AREA		31,167.32	174,949.64	22,881.00	7,771.87	7,473.86	15,245.73	0.51	0.11	0.10	0.21
Region IV-B	Marinduque Occidental Mindoro Oriental Mindoro Palawan Rombon	1,832.35	23,817.60	29,582.00	563.45	1,175.41	1,738.86	0.32	0.09	0.18	0.26
		199.91	919.30	26,552.00	99.69	112.27	211.96	0.47	0.23	0.26	0.49
		304.38	5,674.40	29,520.00	29.92	267.08	297.00	0.10	0.02	0.20	0.23
		608.62	4,066.50	26,510.00	154.16	138.77	292.92	0.53	0.10	0.09	0.19
		503.35	11,942.40	34,368.00	210.90	452.33	663.23	0.32	0.09	0.18	0.27
Region V	Catanduanes Masbate	216.09	1,215.00	30,029.00	68.77	204.97	273.74	0.25	0.13	0.40	0.53
		711.25	4,824.00	15,369.00	170.02	373.49	543.51	0.31	0.09	0.20	0.29
		202.00	1,511.50	12,950.00	48.69	199.12	247.81	0.20	0.09	0.36	0.45
VISAYAS		509.25	3,312.50	16,328.00	121.33	174.37	295.70	0.41	0.09	0.13	0.23
		13,779.99	52,348.70	22,444.00	4,029.35	2,435.55	6,464.89	0.62	0.15	0.09	0.24
		5,759.84	18,159.30	23,409.00	1,587.79	1,158.37	2,746.16	0.58	0.16	0.11	0.27
		410.54	1,835.00	22,526.00	102.26	40.82	143.08	0.71	0.12	0.05	0.16
		414.61	2,428.70	23,859.00	139.72	195.04	334.76	0.42	0.14	0.19	0.33
Region VI	Aklan Antique Capiz Iloilo Guimaras Negros Occidental	624.47	2,478.80	22,606.00	209.79	115.93	325.71	0.64	0.17	0.09	0.26
		1,749.56	4,795.00	23,383.00	524.16	351.38	875.53	0.60	0.18	0.12	0.30
		126.47	488.70	22,282.00	47.82	81.82	129.64	0.37	0.19	0.33	0.52
		2,434.19	6,133.10	23,765.00	564.05	373.38	937.43	0.60	0.15	0.10	0.24
		4,803.83	13,876.20	25,882.00	1,149.06	539.91	1,688.97	0.68	0.14	0.07	0.21
Region VII	Negros Oriental Bohol Cebu Siquijor	1,025.25	4,834.30	23,407.00	334.92	45.91	380.82	0.88	0.15	0.02	0.17
		975.34	4,135.90	22,195.00	275.78	310.49	586.27	0.47	0.14	0.15	0.29
		2,729.48	4,566.40	28,251.00	467.02	179.73	646.75	0.72	0.13	0.05	0.18
		73.76	339.60	21,394.00	71.34	3.78	75.13	0.95	0.45	0.02	0.47
		3,216.32	20,313.20	14,124.00	1,292.50	737.27	2,029.76	0.64	0.16	0.09	0.25
Region VIII	Leyte Southern Leyte Eastern Samar Northern Samar Samar(Western Sama Biliran	1,511.25	5,631.70	15,119.00	527.53	361.59	889.12	0.59	0.18	0.12	0.30
		286.84	1,448.30	15,950.00	141.36	99.38	240.74	0.59	0.22	0.15	0.37
		362.32	3,965.10	14,970.00	199.35	107.41	306.76	0.65	0.17	0.09	0.26
		421.41	16,136.00	15,136.00	125.64	36.62	162.26	0.77	0.10	0.03	0.14
		510.14	5,385.10	16,730.00	266.91	31.07	297.98	0.90	0.16	0.02	0.18
		124.36	457.90	15,463.00	31.72	101.20	132.91	0.24	0.13	0.42	0.56

Appendix 3.5-1 (3/3) ROAD DENSITY : NATIONAL ROAD

Region	Province	Population (in 1000)	Land Area (sq.km)	Per Capita GRDP	National Road (km)			Pavement Ratio	National Road Density		
					Paved	Un-paved	Total		Paved	Unpaved	Total
MINDANAO, Study Area		14,843.74	93,959.34	22,821.00	3,009.05	3,489.42	6,498.47	0.46	0.08	0.09	0.17
Region IX	Zamboanga Del Norte	2,499.10	13,505.70	18,659.00	452.57	492.15	944.71	0.48	0.08	0.08	0.16
	Zamboanga Del Sur	770.70	6,648.00	18,674.00	248.39	158.08	406.47	0.61	0.11	0.07	0.18
		1,728.40	6,857.70	18,652.00	204.18	334.07	538.25	0.38	0.06	0.10	0.16
Region X	Bukidnon	2,483.27	14,034.70	25,572.00	716.22	551.90	1,268.12	0.56	0.12	0.09	0.21
	Misamis Occidental	940.40	8,655.90	25,622.00	176.97	459.05	636.02	0.28	0.06	0.16	0.22
	Misamis Oriental	458.97	1,898.80	25,623.00	169.65	38.68	208.33	0.81	0.18	0.04	0.22
	Camiguin	1,015.87	3,250.20	25,500.00	306.08	54.16	360.24	0.85	0.17	0.03	0.20
		68.04	229.80	25,600.00	63.53	-	63.53	1.00	0.51	-	0.51
Region XI	Davao	4,510.52	25,152.40	25,607.00	796.70	902.47	1,699.17	0.47	0.07	0.08	0.16
	Davao Del Sur	1,114.45	7,758.40	27,101.00	233.66	118.44	352.11	0.66	0.08	0.04	0.12
	Davao Oriental	1,667.26	5,226.90	25,046.00	171.38	327.24	498.62	0.34	0.06	0.11	0.17
	South Cotabato	413.47	4,637.50	25,388.00	99.58	244.92	344.50	0.29	0.07	0.18	0.25
	Sarangani	948.33	4,223.10	24,961.00	158.41	65.09	223.50	0.71	0.08	0.03	0.11
		367.01	3,306.50	25,528.00	133.66	146.78	280.44	0.48	0.12	0.13	0.25
Region XII	Lanao Del Norte	2,359.82	14,585.20	22,252.00	401.88	572.53	974.40	0.41	0.07	0.10	0.17
	Cotabato	713.79	3,092.00	22,099.00	135.69	89.80	225.49	0.60	0.09	0.06	0.15
	Sultan Kudarat	862.67	6,565.90	21,663.00	175.17	374.50	549.67	0.32	0.07	0.16	0.23
	Cotabato City	522.19	4,714.90	22,161.00	63.00	104.08	167.08	0.38	0.04	0.07	0.11
	Marawi City	146.78	143.50	24,792.00	8.07	-	8.07	1.00	0.06	-	0.06
		114.39	68.90	24,801.00	19.96	4.14	24.10	0.83	0.22	0.05	0.27
ARMM	Lanao Del Sur	1,233.98	9,049.00	8,960.00	167.52	329.16	496.68	0.34	0.05	0.10	0.15
	Maguindanao	571.80	3,872.90	9,063.00	45.08	215.91	260.99	0.17	0.03	0.15	0.18
		662.18	5,176.10	8,872.00	122.44	113.25	235.70	0.52	0.07	0.06	0.13
Region XIII	Agusan Del Norte	1,757.05	17,632.34	23,943.00	474.18	641.21	1,115.39	0.43	0.09	0.12	0.20
	Agusan Del Sur	514.49	2,353.70	25,567.00	143.11	91.44	234.55	0.61	0.13	0.08	0.21
	Surigao Del Norte	514.74	9,407.90	25,023.00	185.80	122.85	308.64	0.60	0.08	0.06	0.14
	Surigao Del Sur	256.56	1,207.90	22,036.00	89.81	62.97	152.79	0.59	0.16	0.11	0.27
		471.26	4,662.84	22,030.00	55.46	363.95	419.41	0.13	0.04	0.25	0.28
MINDANAO, Outside Study Area		1,083.00	4,015.00	11,618.00	114.00	175.70	289.70	0.39	0.05	0.08	0.14
Region IX	Basilan	296.00	1,327.20	18,666.00	54.05	8.11	62.16	0.87	0.09	0.01	0.10
		296.00	1,327.20	18,666.00	54.05	8.11	62.16	0.87	0.09	0.01	0.10
ARMM	Sulu	787.00	2,687.80	8,967.00	59.95	167.60	227.54	0.26	0.04	0.12	0.16
	Tawi-tawi	536.00	1,600.40	8,947.00	45.12	88.90	134.01	0.34	0.05	0.10	0.14
		251.00	1,087.40	9,008.00	14.83	78.70	93.53	0.16	0.03	0.15	0.18

## **APPENDIX 3.5 - 2**

### **ROAD DENSITY BY ADMINISTRATIVE CLASSIFICATION**

# ROAD DENSITY BY ADMINISTRATIVE CLASSIFICATION

Region	Province	Population (in thousand)	Land Area (sq.km)	Road Length (km)				Road Density						
				National Road	Provincial Road	City/Mun Road	Barangay Road	Total	National Road	Provincial Road	City/Mun Road	Barangay Road	Total	
PHILIPPINES		67,614.32	287,343.64	27,991.88	28,931.42	15,523.30	102,480.29	174,926.90	0.20	0.21	0.11	0.74	1.25	
	NCR	9,454.00	636.00	889.10	-	577.40	3,662.40	5,128.90	0.36	-	0.24	1.49	2.09	
	CAR													
	Abra	196.00	3,975.60	178.70	479.80	258.10	1,427.40	2,344.00	0.20	0.54	0.29	1.62	2.66	
	Kalinga-Apayao	238.00	7,047.60	397.40	173.80	85.80	665.30	1,322.30	0.31	0.13	0.07	0.51	1.02	
	Benguet	541.00	2,655.40	458.60	321.10	177.80	818.20	1,775.70	0.38	0.27	0.15	0.68	1.48	
	Ifugao	150.00	2,517.80	252.80	154.50	18.40	556.90	982.60	0.41	0.25	0.03	0.91	1.60	
	Mt. Province	131.00	2,097.30	308.70	272.80	37.30	194.60	813.40	0.59	0.52	0.07	0.37	1.55	
	Region I													
	Ilocos Norte	483.00	3,399.30	417.40	422.10	425.50	2,073.00	3,338.00	0.33	0.33	0.33	1.62	2.51	
Ilocos Sur	545.00	2,579.60	380.90	263.10	245.50	2,010.80	2,900.30	0.32	0.22	0.21	1.70	2.45		
Pangasinan	2,179.00	5,368.20	483.20	846.40	454.60	3,339.50	5,123.70	0.14	0.25	0.13	0.98	1.50		
La Union	597.00	1,493.00	218.30	251.90	121.60	579.20	1,171.00	0.23	0.27	0.13	0.61	1.24		
Region II														
Batanes	14.00	209.30	65.90	64.60	30.50	116.30	277.30	1.22	1.19	0.56	2.15	5.12		
Cagayan	895.00	9,002.70	644.10	527.00	202.60	2,187.40	3,561.10	0.23	0.19	0.07	0.77	1.25		
Isabela	1,161.00	10,664.60	424.00	580.20	430.50	2,569.10	4,003.80	0.12	0.16	0.12	0.73	1.14		
Nueva Vizcaya	335.00	3,903.90	316.20	369.70	285.80	1,523.00	2,494.70	0.28	0.32	0.25	1.33	2.18		
Quirino	131.00	3,057.20	258.10	152.70	88.30	223.20	722.30	0.41	0.24	0.14	0.35	1.14		
Region III														
Bataan	491.00	1,373.00	295.90	225.20	48.80	454.50	1,024.40	0.36	0.27	0.06	0.55	1.25		
Bulacan	1,784.00	2,625.00	250.50	354.00	237.90	1,791.80	2,634.20	0.12	0.16	0.11	0.83	1.22		
Nueva Ecija	1,506.00	5,284.30	438.50	697.50	362.00	1,778.60	3,276.60	0.16	0.25	0.13	0.63	1.16		
Pampanga	1,637.00	2,180.70	288.10	321.60	233.40	1,588.30	2,431.40	0.15	0.17	0.12	0.84	1.29		
Tarlac	946.00	3,053.50	210.10	552.30	128.30	1,558.50	2,449.20	0.12	0.32	0.08	0.92	1.44		
Zambales	569.00	3,714.40	221.90	215.30	256.40	599.10	1,292.70	0.15	0.15	0.18	0.41	0.89		
Region IV-A														
Aurora	160.00	3,239.50	225.50	115.90	57.10	242.10	640.60	0.31	0.16	0.08	0.34	0.89		
Batangas	1,659.00	3,165.00	518.90	637.00	274.50	2,253.60	3,684.00	0.23	0.28	0.12	0.98	1.61		
Cavite	1,610.00	1,287.60	295.90	429.60	159.60	717.30	1,602.40	0.21	0.30	0.11	0.50	1.11		
Laguna	1,632.00	1,759.70	347.30	252.20	233.90	658.40	1,491.80	0.20	0.15	0.14	0.39	0.88		
Quezon	1,538.00	8,706.60	650.40	368.50	231.20	793.50	2,043.60	0.18	0.10	0.06	0.22	0.56		
Rizal	1,312.00	1,308.90	244.80	66.80	143.40	782.80	1,237.80	0.19	0.05	0.11	0.60	0.94		
Region IV-B														
Marinduque	199.91	919.30	217.80	173.38	135.09	138.82	665.09	0.51	0.40	0.32	0.32	1.55		
Occidental Mindoro	304.38	5,674.40	272.40	321.69	131.61	11,515.36	12,241.06	0.21	0.24	0.10	8.75	9.31		
Oriental Mindoro	608.62	4,066.50	336.52	734.70	66.56	365.50	1,493.29	0.21	0.47	0.04	0.23	0.95		
Palawan	503.35	11,942.40	895.83	504.18	175.66	1,363.74	2,739.41	0.28	0.21	0.07	0.56	1.12		
Romblon	216.09	1,215.00	285.21	262.76	74.20	810.83	1,433.00	0.56	0.51	0.14	1.58	2.80		

# ROAD DENSITY BY ADMINISTRATIVE CLASSIFICATION

Region	Province	Population (in thousand)	Land Area (sq.km)	Road Length (km)				Road Density			
				National Road	Provincial Road	City/Mun Road	Barangay Road	National Road	Provincial Road	City/Mun Road	Barangay Road
Region V	Albay	1,005.00	2,552.60	386.50	374.70	197.40	663.90	0.24	0.23	0.12	0.43
	Camarines Norte	439.00	2,112.50	197.10	134.80	86.50	315.30	0.20	0.14	0.09	0.33
	Camarines Sur	1,434.00	5,266.80	689.20	689.20	432.20	2,092.90	0.16	0.25	0.16	0.78
	Catanduanes	202.00	1,511.50	248.00	223.60	62.60	240.30	0.45	0.40	0.11	0.43
	Masbate	508.25	3,312.50	377.01	117.80	92.38	445.83	0.29	0.09	0.07	0.34
Region VI	Sorsogon	592.00	2,141.40	295.20	231.10	113.50	410.10	0.26	0.21	0.10	0.36
	Aklan	410.54	1,835.00	140.57	286.09	80.29	653.61	0.16	0.33	0.09	0.75
	Antique	414.51	2,428.70	370.30	96.70	93.52	753.59	0.37	0.10	0.09	0.75
	Capiz	624.47	2,478.80	333.43	365.56	109.03	877.42	0.27	0.29	0.09	0.71
	Iloilo	1,749.56	4,795.00	864.16	671.55	252.12	2,073.20	0.30	0.23	0.09	0.72
Region VII	Guimaras	126.47	488.70	125.06	122.70	4.56	172.68	0.51	0.49	0.02	0.69
	Negros Occidental	2,434.19	6,133.10	1,007.93	808.34	450.71	3,605.20	0.26	0.21	0.12	0.93
	Negros Oriental	1,025.25	4,834.30	375.79	299.56	254.13	1,103.19	0.17	0.13	0.11	0.50
	Bohol	975.34	4,135.90	583.79	878.58	323.72	2,633.22	0.29	0.44	0.16	1.31
	Cebu	2,729.48	4,568.40	642.54	950.07	593.12	1,645.60	0.18	0.27	0.17	0.47
Region VIII	Siquijor	73.76	339.60	75.33	184.81	25.57	90.43	0.48	1.17	0.16	0.51
	Leyte	1,511.25	5,631.70	903.06	497.88	346.50	1,676.29	0.31	0.17	0.12	0.57
	Southern Leyte	286.84	1,448.30	282.47	350.75	80.71	581.70	0.44	0.54	0.13	0.90
	Eastern Samar	362.32	3,965.10	278.63	250.42	155.65	1,124.86	0.23	0.21	0.13	0.94
	Northern Samar	421.41	3,425.10	185.69	146.69	89.37	304.73	0.15	0.12	0.07	0.50
Region IX	Samar (Western Samar)	510.14	5,385.10	312.82	135.17	63.13	395.18	0.19	0.08	0.04	0.24
	Biliran	124.36	457.90	166.28	24.48	36.51	221.64	0.70	0.10	0.15	0.93
	Zamboanga Del Norte	770.70	6,648.00	392.75	699.30	343.55	2,157.81	0.17	0.31	0.15	0.95
	Zamboanga Del Sur	1,728.40	5,857.70	551.97	731.10	542.91	3,077.06	0.16	0.21	0.16	0.89
	Basilan	296.00	1,327.20	62.10	229.20	47.90	520.60	0.10	0.37	0.08	0.83
Region X	Bukidnon	940.40	8,655.90	661.73	787.11	400.94	2,898.09	0.23	0.28	0.14	1.02
	Misamis Occidental	458.97	1,898.80	207.06	507.86	241.29	1,396.92	0.22	0.54	0.26	1.50
	Misamis Oriental	1,015.87	3,250.20	382.42	501.49	222.29	1,841.39	0.21	0.28	0.12	1.01
	Comiguin	68.04	229.80	63.53	88.88	27.94	160.06	0.51	0.71	0.22	1.28
	Davao	1,114.45	7,758.40	353.34	985.85	305.23	1,501.55	0.12	0.34	0.10	0.51
Region XI	Davao Del Sur	1,667.26	5,226.90	524.00	425.71	525.68	2,519.48	0.18	0.14	0.18	0.85
	Davao Oriental	413.47	4,637.50	333.28	548.80	73.90	450.50	0.24	0.40	0.05	0.33
	South Cotabato	948.33	4,223.10	184.87	1,012.50	353.75	1,644.25	0.09	0.51	0.18	0.82
	Sarangani	367.01	3,306.50	311.11	-	344.18	1,759.90	0.28	-	0.31	1.60
											2.19

# ROAD DENSITY BY ADMINISTRATIVE CLASSIFICATION

Region	Province	Population (in thousand)	Land Area (sq.km)	Road Length (km)				Total	Road Density				Total
				National Road	Provincial Road	City/Mun Road	Barangay Road		National Road	Provincial Road	City/Mun Road	Barangay Road	
Region XII	Lanao Del Norte	713.79	3,092.00	225.49	279.02	303.71	1,083.40	1,891.61	0.15	0.19	0.20	0.73	1.27
	Colabato	862.67	6,565.90	549.67	447.86	190.13	662.61	1,850.27	0.23	0.19	0.06	0.28	0.78
	Sultan Kudarat	522.19	4,714.90	167.08	514.30	115.19	1,282.80	2,179.37	0.11	0.39	0.07	0.82	1.39
	Colabato City	146.78	143.50	8.07	-	33.24	7.92	49.22	0.06	-	0.23	0.05	0.34
	Marawi City	114.39	68.90	24.10	-	27.43	66.65	118.18	0.27	-	0.31	0.75	1.33
Region XIII	Agusan Del Norte	514.49	2,353.70	219.31	232.89	157.21	600.85	1,210.26	0.20	0.21	0.14	0.55	1.10
	Agusan Del Sur	514.74	9,407.90	302.72	266.81	161.81	761.26	1,492.61	0.14	0.12	0.07	0.35	0.68
	Surigao Del Norte	256.56	1,207.90	398.42	340.57	261.09	886.80	1,886.87	0.72	0.61	0.47	1.59	3.39
	Surigao Del Sur	471.26	4,662.84	356.67	278.61	111.91	934.22	1,681.41	0.24	0.19	0.08	0.63	1.13
	Lanao Del Sur	571.80	3,872.90	260.99	415.62	244.60	2,936.65	3,858.85	0.18	0.28	0.16	1.97	2.59
ARMM	Maguindanao	662.18	5,176.10	235.70	336.80	108.56	1,049.54	1,730.60	0.13	0.13	0.06	0.57	0.93
	Sulu	536.00	1,600.40	134.00	217.40	19.50	655.40	1,026.30	0.14	0.23	0.02	0.71	1.11
	Tawi-tawi	251.00	1,087.40	935.00	29.90	26.40	184.70	1,176.00	1.79	0.06	0.05	0.35	2.25