NAME OF BRIDGE: BALIBADON BRIDGE #3 NO: 11.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1296 + 814	Surigao del Sur Davao Coastal Road	Surigao del Sur	XI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	36 LM	Timber		
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
			PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON; No data		

NAME OF BRIDGE : CALABANIT BRIDGE NO : 11.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1716 + 033	Davao del Sur-South Cotabato	South Cotabato	XI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	36.80 LM	Bailey	Bad - deteriorated substructure and superstructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		924,570	Corn, copra, rice, root crops, vegetables and cotton	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	270	Trucks, cars, jeeps, tricycles and buses	Business, Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling to Mountainous		Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HWL = 96.02 m AWL = 95.20 m LWL = 94.80 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally	Gen. Santos along Davao del Sur Coastal Road-Glan	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	20 + 20 = 40 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON;	No difficulty	

NAME OF BRIDGE : MANAY BRIDGE NO : 11.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1643 + 783	Davao Oriental-Surigao del Sur National Road	Davao Oriental	XI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	42.67 LM	Bailey on concrete abutments	Decaying wooden members and rusted bailey panels	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		339,931	Copra	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	450	Trucks, Jeeps and Motorcycles	Business, Visit/ Pleasure, School	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Gravel and Rocks	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Dry Season - March to Sept. Wet Season - Oct. to Feb. HFL = 28.00 OWL = 26.00		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Not Available in locality	Available in locality	Davao City-Banaybanay-Lupon-Mati-Tarragona-Manay	Fair to Bad
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Permanent	Substructure		
EVALUATION	PHASE 1,2	REASON;	Permanent substructure	

NAME OF BRIDGE : CULAMAN I BRIDGE NO : 11.05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1650 + 758	Davao del Sur-South Cotabato Coastal Road	Davao del Sur	XI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	72 LM	Bailey		
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
			PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ;	No data	

NAME OF BRIDGE : PIKINIT BRIDGE NO : 12.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 136 + 936	Dobleston-Tukuran Road	Lanao del Norte	XII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	20 LM	Bailey	Dilapidated temporary bridge	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		461,049	Agricultural and aqua-culture products	Expansion of Agri-Aqua culture indus-tries
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	76	Jeeps, cars, trucks, conc. equipment and farm equipment	Routine Business Trip	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flood Rolling		Clayey soil with gravel and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Dry Season - February to April 5.3 m rainfall Wet Season - May to Jan. 231 mm rainfall		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in Iligan City	Available in Iligan City	Iligan-Kapatagan Caromatan via Butadon-Caromatan Road	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	21 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON ;	Flood area	

NAME OF BRIDGE: DURUGAO BRIDGE NO: 12.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 216 + 498	Awang-Upi-Lebak	Maguindanao	XII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	40 LM	Bailey	Permanent Substructure Fair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		536,546	Agricultural and Marine Products	Development of agricultural and fisheries industry
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Bus, PUJ, trucks, jeeps, cars and off the road vehicles	Commercial Agricultural and Military	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Clay, gravel and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
			Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at RES, Awang, Dinang, Maguindanao	Available in Cotabato City	Cotabato City-North UPI-South UPI	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Permanent	Substructure		
EVALUATION	PHASE 1,2	REASON; Permanent Substructure		

NAME OF BRIDGE : UPIAN BRIDGE NO : 12.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 239 + 002	Cotabato-Bukidnon Road	North Cotabato	XII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	45 LM	Bàiley	Dilapidated	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		564,599	Agricultural	Development of Agricultural and home industries
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	124	Car, jeepneys and trucks	Business	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling to Mountainous		Gravel and Boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
			Bàd to Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in Cotabato or Davao City	Available in Cotabato or Davao City	Kayapa-Lumayong Carmen or Calinan-Mapamag-Upian Road	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	25 + 25 = 50 m	H-beam	T type abutment Wall type pier	Spread Footing
EVALUATION	PHASE 1,2	REASON ;	No difficulty	

NAME OF BRIDGE : DANGOLAAN BRIDGE NO : 12.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 133 + 983	Dobleston-Tukuran Road	Lanao del Norte	XII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	25 LM	Timber	Dilapidated temporary bridge	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		461,049	Agricultural and aqua-culture products	Expansion of agr. and aqua culture industries
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	76	PUJ, Cars, Trucks Const. Equip. and Farm Equip	Business	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Clayey gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Dry Season - Feb. to April, 53 mm Wet Season - May to Jan. 231 mm		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in Iligan City	Available in Iligan City	Iligan-Kapatagan-Caromatan via Butaon-Caromatan Road	Road
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	24 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON; Flood area		

NAME OF BRIDGE : SAPAKAN BRIDGE NO : 12.05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 211 + 530	Dulawan-Marbel Road	Maguindanao	XII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	100 LM	Bailey with permanent sub-structure	Good	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		536,546	Agricultural	Improve Agricultural Production and develop cottage industries
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	686	Bus, PUJ, Trucks, Cars, Jeepneys	Business	10 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat to Rolling		Clayey	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Dry Season-81 mm rainfall average for 3 months with May the hottest Wet Season-281 mm rainfall average with October the hottest		Fair to Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in Cotabato City	Available in Cotabato City	Cotabato City-Maganoy-Sapakan	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Permanent substructure			
EVALUATION	PHASE 1,2	REASON ; Permanent substructure		

付属資料6

要請橋梁の区分表

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
1	01.01	Ellet Bridge Benguet	151	24.40	Bailey . Fair Steel	10			. No topographic survey data	-
2	01.02	Bimmilog B Br. Ilocos Sur	133	30.00	Timber . Dilapidated timber trestle	5			. No topographic survey data	-
3	01.03	Malaya Br. Ilocos Sur	237	48.80	Steel Struss	5			. No picture . No topographic survey data	-
4	02.01	Sta. Cruz Bridge Cagayan	281	90.00	Timber . Dilapidated timber trestle	-	3 @ 30=90 m	. Continuous steel girder . Pile foundation	. Topographic and geological surveys are required. . Study on flood control is necessary. . Use of cofferdam for deep water (h=3.5 m) is required. . Long span bridge is advisable because of deep water	2
5	02.02	Dumadata Br. Quirino	261	30.00	Bailey . Dilapidated timber trestle	5	17+17=34 m	. H-beam girder . Pile foundation	. Topographic and geological survey are required. . Use of cofferdam for deep water (h=2.0m) is required.	2
6	02.03	Baan Br. No. 2 Nueva Vizcaya	-	39.63	Bailey . Dilapidated timber trestle	3	23+23=46 m	. H-beam girder . Pile foundation	. No difficulty in construction because of ordinary types of abutments (2) and pier (1).	1
7	02.04	Diora Br. Cagayan	281	48.00	Timber . Seriously dilapidated	5	25+25=50 m	. H-beam girder . Pile foundation	. No special difficulty in construction . Use of cofferdam in water (h=1.0m) is required.	1

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
8	02.05	Diduyon Br. Quirino	261	30.00	Timber (Washed-Out)	-			. Study of flood area and control is required. . Bridge length should be studied	2
9	03.01	Segum Br. Nueva Ecija	-	34.00	Timber . Destroyed	-				-
10	03.02	Calabasa Br. Nueva Ecija	-	12.00	Timber . Dilapi-dated	3			. Topographic survey does not show the alignment of existing road and river	-
11	03.03	Malinao Br. Nueva Ecija	-	12.00	Timber . Destroyed	-				-
12	03.04	Asam Br. Nueva Ecija	-	36.00	Timber . Destroyed	-				-
13	04.01a	Binambang Bridge Batangas	-	80.00	Spillway . Over-flow meter	5	3 @ 25=75m	. H-Beam Girder . Spread Footing	. Flood water level shall be studied . Topographic and geological survey is required. . Alignment of road shall be studied in order to avoid demolision of existing houses.	2
14	04.02a	Mango Br. Rizal	-	-	R.C.D.G. . Defect-ive super-structure	15			. Proposed widening with concrete girder is recommended	-

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
15	04.03a	Leviste II Br. Batangas	520	40.00	Timber (washed-out)	-	20+20+20+20 +20 = 80 m	. H-Beam girder . Spread foundation	. Maximum high flood water level shall be reviewed	2
16	04.04b	Lumang Bayan Br. Mindoro Occ.	208	60.00	Bailey . Fair Steel . Dilapidated timber trestle	5	3@30 = 30 m	. Continuous steel girder . Pile foundation	. Study on flood area and elevation is required	-
17	04.05b	Olangoan Br. Palawan	-	36.00	Bailey . Fair Steel . Timber Trestle	5	20+20 = 40 m	. H-Beam Girder . Pile foundation	. Geological survey is required . Use of cofferdam for water is required	2
18	04.06b	Bongabon Br. Oriental Mindoro	153	351.00	Bailey . Fair Steel . Permanent sub-structure	8	. Depend on existing span length	. Depend on existing pier	. Stability of existing substructure shall be checked	2
19	04.07b	Dipulao Br. Palawan	50	30.00	Bailey . Fair Steel . Dilapidated timber trestle	5	25 m	. Skewed H-Beam girder . Pile foundation	. No difficulty in construction	1
20	04.08b	Cogon Bridge Romblon	60	20.00	Bailey . Fair Steel . Dilapidated timber trestle	5	23 m	. H-Beam girder . Spread foundation	. No difficulty in construction	1
21	05.01	Duguit Br. Camarines Norte	1561	30.00	. Steel I-Beam . Fair	20			. Urgent replacement is not recommended . Coping of piers shall be remedied	-

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
22	05.02	Patitinan Br. Camarines Sur	624	20.00	Bailey	7	20-m	. H-Beam girder . Spread type foundation	. No difficulty in construction	1
23	05.03	Narangasan I Bridge Masbate	-	45.00	. Bailey . Dilapidated timber trestle	1	2 @ 35=70 m	. Continuous steel girder . File foundation	. Bridge length shall be examined considering river bank	2
24	06.01	Talus Bridge Negros Occ.	2420	40.00	Bailey . No bridge approach	10			. Steel of baily is fair and substructure is permanent . Construction of bridge approach is recommended	-
25	06.02	Cataan Br. Iloilo	390	39.00	Bailey . Fair Steel . Timber trestle	3	20+20 = 40 m	. H-Beam girder . Pile foundation	. No difficulty in construction	1
26	06.03	Iyang Br. Iloilo	526	25.00	Timber . Dilapidated	3.5	28 m	. Steel plate girder . Pile foundation	. Geological survey is required because of swampy and soft ground condition . Use of cofferdam for deep water (h=2.0m) is required	2
27	06.04	Guintas Br. Capiz	60	20.00	Bailey . Destroyed	-	21+21+42 m	. H-Beam girder . Pile foundation	. No difficulty in construction	1
28	06.05	Tumalalud Br. Capiz	92	30.00	Bailey . Fair Steel . Permanent substructure	7			. Urgent replacement of superstructure might not be recommended . Stability of substructure shall be checked	-

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
29	07.01	Banban Br. Cebu	97	25.38	Timber . Dilapidated	5	30 m	. Steel plate girder . Pile foundation	. Geological survey is required . Study of flood area is required	2
30	07.02	Campacas Bridge Cebu	34	20.83	Bailey . Fair Steel . Dilapidated trestle timber	5	24 m	. H-beam girder . Pile foundation	. Geological survey is required . Maximum high flood water level shall be reviewed	2
31	07.03	Campanga Bridge Cebu	89	9.21	Bailey . Dilapidated timber trestle	3	12 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
32	07.04	Camachiles Bridge Toledo City	207	35.00	. Timber . Fair	10	18+18 = 36 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
33	07.05	Lagnason Br. Cebu	50	33.78	. Timber. . Bad condition	5	19+19 = 38 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
34	08.01	Poray Br. E. Samar	96	18.00	. Timber . Bad condition	5	22 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
35	08.02	Iba Bridge Samar	-	21.65	Bailey . Unpassable due to dilapidated steel member	-	23 m	. H-beam girder . Pile foundation	. No difficulty in construction	1

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
36	08.03	Habay Br. S. Leyte	-	61.45	Bailey . Good . Timber trestle	7	22+22+22=66m	. H-beam girder . Pile foundation	. Geological survey is required . Study of flood area is required	2
37	08.04	Talisayan River Crossing Leyte	-	51.40	River Crossing . No existing bridge	-	27+27 = 54 m	. H-beam girder . Pile foundation	. Topographic and geological surveys are required . Study flood area and control is required	2
38	08.05	Pinucawan Br. Leyte	-	13.70	Timber . Bad condition	3	16 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
39	09.01	Batungal Br. Basilan	340	15.40	Timber . Bad condition	3	23 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
40	09.02	Mangop Br. Zamboanga del Norte	590	45.00	Timber . Deteriorated condition	3	17+17 = 34 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
41	09.03	Canawan Br. Zamboanga del Norte	590	35.50	Bailey . Fair steel . Timber trestle	5	19+19 = 38 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
42	09.04	Piangon Br. Zamboanga del Norte	677	25.00	Bailey . Fair steel . Timber trestle	7	20+20 = 40 m	. H-beam girder . Pile foundation	. No difficulty in construction	1

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
43	09.05	Patunan Br. Zamboanga del Norte	667	25.00	Bailey . Fair steel . Permanent pier . timber trestle	7	25 m	. H-beam girder	. Stability of existing permanent substructures shall be examined and incorporated in design	2
44	10.01	Hayangabon I Bridge Surigao del Norte	55	40.00	Timber . Dilapidated condition	5	21+21 = 42 m	. H-beam girder . Pile foundation	. Geological survey is required . Use of cofferdam for deep water is required	2
45	10.02	Maradugao Br. Bukidnon	1319	21.00	Bailey . Fair steel . Dilapidated timber trestle	5	25 m	. H-beam girder . Spread foundation	. No difficulty in construction	1
46	10.03	Maundo Br. Agusan del Sur	-	18.00	Bailey . Fair steel . Dilapidated timber trestle	5	22 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
47	10.04	Sta. Irene Br. Agusan del Sur	-	20.00	Log Bridge . Unpassable	-	22 m	. H-beam girder . Spread foundation	. No difficulty in construction	1
48	10.05	Malubog Br. Tangub City	362	25.00	Timber . Dilapidated condition	5	25 m	. H-beam girder . Pile foundation	. No difficulty in construction	1
49	11.01	Lambunao Br. Surigao del Sur	-	40.00	Bailey	-	19+19 = 38 m	. H-beam girder . Pile foundation	. No difficulty in construction	1

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
50	11.02	Balibadon Br. Surigao del Sur	-	36.00	Timber	-			. No data	-
51	11.03	Calabanit Br. South Cotabato	270	36.80	Timber . Deterioration steel and timber trestle	5	20+20 = 40 m	H-beam ringer pile foundation	. No difficulty in construction	1
52	11.04	Manay Bridge Davao Oriental	450	42.67	Bailey . Fair Steel . Permanent sub-structure	5	. Demand on existing span length	. Depend on existing pier condition	. Stability of permanent substructure shall be checked	2
53	11.05	Culaman I Br. Davao del Sur	-	72.00	Bailey	-			. No data	-
54	12.01	Pikinit Br. Lanao del Norte	76	20.00	Bailey	3	21 m	. H-beam girder . Pile foundation	. Maximum high water level shall be checked	2
55	12.02	Durugao Br. Maguindanao	-	40.00	Bailey . Fair steel . Permanent sub-structure	5	. Depend on existing span length	. Depend on existing pier condition	. Stability of permanent substructure shall be checked	2
56	12.03	Upian Bridge North Cotabato	124	45.00	Bailey . Dilapidated condition	5	25+25 = 50 m	. H-beam girder . Spread foundation	. No difficulty in construction	1

PHASING OF PROPOSED BRIDGES

NO.	BRIDGE NO.	NAME OF BRIDGE	TRAFFIC VOLUME (ADT)	EXISTING BRIDGE			PROPOSED BRIDGE		DESIGN AND CONSTRUCTION REQUIREMENTS	PHASING
				LENGTH (m)	LENGTH AND CONDITION	LOAD LIMIT (TONS)	LENGTH (m)	TYPE		
57'	12.04	Dangolaan Bridge Lanao del Norte	76	25.00	Timber	3	24 m	. H-beam girder . Pile foundation	. Direction of river stream was changed . Study of flood is required	2
58	12.05	Sapakan Br. Maguindanao	686	100.00	Bailey . Fair steel . Permanent sub-structure	10	. Depend on existing span length	. Depend on existing pier	. Stability of existing permanent substructure shall be checked.	2

付属資料７

カントリーデータ

Ⅰ. 国土・人口

(1) 国 土

フィリピン共和国は、造山運動や火山活動の繰返しによって形成された7,100 個あまりの島により成る。それらの島々は、大きく３つのグループに分けられ、ルソン、ビサイヤ、ミンダナオと呼ばれる。ルソンは最北部に位置する最も大きい島であり、ビサイヤは、サマール、レイテなどの群島で他の２つのグループに挟まれる箇所に位置している。ミンダナオは２番目に大きい島で最南部に位置する。主要な島の面積は下記のとおりである。

島 名	面積（㎢）	備 考
ル ソ ン	104,687	わが国本州の約半分
ミンダナオ	94,630	北海道の1.1 倍
サ マ ー ル	13,079	
ネ グ ロ ス	12,704	
パ ラ ワ ン	11,784	
そ の 他	43,541	
合 計	280,415	

(2) 気 候

フィリピンは熱帯気候に属する。フィリピンの気候は、その地形的な特徴とモンスーンや貿易風の影響に支配されている。気候状態は一般に一年間の各月降雨量の分布が、地域ごとに異なっており、その特徴に基づいて分類されている。フィリピンでは４種類の気候状態となっている。

降雨量の50%以上はトロピカル・サイクロンに伴う雨量となっている。フィリピン近辺を通過するトロピカル・サイクロンは年平均約20回であり、この内フィリピン群島を直接通過するものは、年8.8 回となっている。

フィリピンの年降雨量の平均は2,416.3 ㎜である。最大の年降雨量は、サマールにあるプロンガンとスリガオ・デ・サーにあるヒナチュアンでそれぞれ4,316 ㎜、4,360 ㎜となっている。両地点とも太平洋側に位置している。

日降雨量の最大は1967年10月17日にバギオ市で979.4 ㎜が記録されている。サマールとレイテの地域での日降雨量の最大はカタバロガン市で387.9 ㎜を記録しており、ミンダナオ島ではスリガオ市で564.7 ㎜を記録している。

(3) 人 口

マニラ首都圏は、4市13町より構成されているが、1980年の人口分布によると、同圏の人口密度が9317人／㎢となっている。これは、フィリピンの全国平均160 人／㎢に比較して非常に高い値であり、増加率も高いと思われる。表1にRegion別人口、人口密度を示す。

Ⅱ. 経 済

(1) 国家経済

1970年代のフィリピン経済は実質的成長を示した。1972年から1980年にかけて、国民総生産は年平均6.2 %の成長を達成した。しかし、1980年代の初頭のフィリピン経済は、石油危機による世界的経済不況の余波を受け、低成長を示すこととなった。

しかも、この低成長は1983年まで続き、フィリピン経済を困難におとしいれた。この経済的不況のために、借入が不足し、その上、利率が上昇することとなった。この情況は1984年まで続き、この年の経済成長率はマイナス5.3 %であり、国民総生産の最小値を記録した。1985年には、マイナス2.5 %の成長率となり、若干の回復を示した。その後、1986年には1.2 %、1987年前半期には5.4 %、と予想されており、早い回復を示しているといえよう。

この比較的急速な経済回復は、新国家指導理念下の国家再建と相いまって、継続されるものと期待されている。

(2)　地域経済

各Regionの過去の実質的経済実績を見ると表２に示すとおり、各Regionに相当の差異が発生していることがうかがわれる。国内生産の過半数は、マニラ首都圏、南タガログ（RegionⅢ）及び西ビサヤ（RegionⅥ）の３つのRegion によって、もたらされている。これに対し、RegionⅡ、Ⅷ、Ⅸ及びＸⅡは生産性の低い地域である。

低生産性や低所得は、すべてのRegionに対し、危機的な問題として認識されている。幾多の政府援助が低所得グループに対して実施されたにもかかわらず、近年、その状況は悪化した。

多くの低所得世帯が、経済力の高いRegionにも、低いRegionにも存在している。この事実は、Region内に於ても、所得の均等な配分が行なわれていないことを示唆している。

表３に示すとおり、1985年の各Regionの貧困率はマニラ首都圏の44.1%からRegionⅤの73.2%の範囲である。13 Region の内９Regionは全国平均より高い貧困率を示している。３つのRegionからなるビサヤ地区は一般に高い貧困家庭を有している。農村地区における貧困は都市圏よりもひどい状況である。農村地区の、RegionⅤ、Ⅵ、Ⅶ及びⅧでは所帯数の70%以上が貧困所帯となっている。都市圏における貧困所帯の構成は東ビサヤ地区（RegionⅧ）、西ビサヤ地区（RegionⅦ）そして北ミンダナオ（RegionⅨ）などである。

(3)　産業構造

産業構造別にみると、1970年から1985年まで引き続いて、サービス分野の生産が最も大きく、国家経済の38%から42%を占めている。次いで、工業で、30%から37%である。農業は最も小さく、わずか25%から29%である。

フィリピン共和国の経済は基本的には農業であり、総耕作面積は133 万3258ヘクタールである。1986年の総農業生産は2850万トンであり、作付面積は 122万ヘクタール、生産高は7790万ペソに達した。総生産の80%はトウモロコシや果物、20%は換金作物のココナッツやサトウキビである。

最大の農業生産地はRegionＸＩ（南ミンダナオ）で、総生産の18%を占めている。次に大きな生産地は中央ミンダナオ（RegionＸⅡ）と西ビサヤ（RegionⅥ）であり、それぞれ12%を生産している。

各Regionは異なった土質から成り、それぞれの土地に適した作物を生産し、その作物がそのRegionにおいて最も有為な作物となっている。籾の主要生産地はミンダナオのRegionＸ、ＸＩおよびＸⅡであり、ココナッツの主要生産地は、南タガログ（RegionⅣ）、南ミンダナオ（RegionＸＩ）である。サトウキビは、西ビサヤ（RegionⅥ）が主要生産地であり、マニラ麻はビコールRegion（RegionⅤ）の主要作物である。

Region別主要農作物生産高を表４に示す。

表 1　REGION別　人口、人口密度及び人口密度ランキング（1980, 1975, 1970）

	Land Area (Sq. Km.)	1980			1975			1970		
		Population (In Thousand)	Density	Rank	Population (In Thousand)	Density	Rank	Population (In Thousand)	Density	Rank
Philippines	300000	48099	160.3		42071	140.2		36685	122.3	
National Capital Region	636	5926	9317.4	1	4971	7814.5	1	3967	6236.9	1
Region III-Central Luzon	18230.8	4803	263.4	2	4210	230.9	2	3616	198.3	3
Region VII-Central Visayas	14951.4	3787	253.3	3	3387	226.6	3	3033	202.8	2
Region VI-Western Visayas	20223.1	4526	223.8	4	4146	205.0	4	3618	178.9	4
Region V-Bicol	17632.5	3477	197.2	5	3194	181.1	5	2967	168.3	5
Region I-Ilocos	21568.4	3541	164.2	6	3269	151.6	6	2991	138.7	6
Region IX-Western Mindanao	18685.1	2529	135.3	7	2048	109.6	9	1869	100.0	8
Region VIII-Eastern Visayas	21431.7	2800	130.6	8	2600	121.3	7	2381	111.1	7
Region IV-Southern Tagalog	46924.2	6119	130.4	9	5214	111.1	8	4456	95.0	9
Region XI-Southern Mindanao	31692.8	3347	105.6	10	2715	85.6	11	2201	69.4	11
Region XII-Central Mindanao	23293.2	2271	97.5	11	2070	88.9	10	1942	83.3	10
Region X-Northern Mindanao	28327.7	2759	97.4	12	2314	81.7	12	1953	68.9	12
Region II-Cagayan Valley	36403.0	2216	60.9	13	1933	53.1	13	1692	46.5	13

表 2　REGION別 国内総生産（GDP）及びGDP成長率（1971～1985）

Region/Year	GRDP in Million Pesos				Growth Rate			
	1971	1975	1980	1985	1971-1975	1975-1980	1980-1985	1971-1985
Philippines	53528	67455	92706	90469	6.0	6.6	9.5	3.8
N C R	16182	20976	29959	27026	6.7	7.4	8.0	3.7
I. Ilocos Region	2691	3144	3315	3859	4.0	1.1	3.1	2.6
II. Cagayan Valley	1421	1809	2437	2472	6.2	6.1	0.3	4.0
III. Central Luzon	4664	5556	7500	7996	4.5	6.2	1.3	3.9
IV. Southern Tagalog	6434	9617	12935	12905	0.6	6.1	-0.05	5.1
V. Bicol Region	2032	2554	3277	3069	5.9	5.1	8.7	3.0
VI. Western Visayas	5988	5837	7331	7241	9.4	4.7	9.8	1.4
VII. Central Visayas	3137	4754	6794	6332	1.0	7.4	8.6	5.1
VIII. Eastern Visayas	1766	2094	2272	2205	4.4	1.6	9.4	1.6
IX. Western Mindanao	1589	1834	3248	3235	3.6	2.1	9.9	5.2
X. Northern Mindanao	2304	2731	4267	4349	4.3	9.3	0.4	4.6
XI. Southern Mindanao	3552	4587	6292	6157	6.6	6.5	9.6	4.0
XII. Central Mindanao	1768	1962	3079	3623	2.6	9.4	3.3	5.3

表 3　REGION別 貧 困 指 標（1985）

（単位：トン）

Region	Total			Urban			Rural		
	Total Poverty Threshold (In ₱)	Magnitude of Poverty (000 Families)**	Incidence of Poverty (In %) ***	Total Poverty Threshold (In ₱)*	Magnitude of Poverty (000 Families)**	Incidence of Poverty (In %)***	Total Poverty Threshold (In ₱)*	Magnitude of Poverty (000 Families)**	Incidence of Poverty (In%) ***
Philippines	2,382	5,676.6	59.3	3,021	1,875.9	52.1	2,066	3,800.7	63.7
N C R	3,282	550.5	44.1	3,282	550.5	44.1			
Outs, NCR	2,285	5,126.1	61.6	2,912	1,325.4	56.3	2,066	3,800.7	63.7
I	2,374	364.9	52.3	3,093	89.7	56.2	2,139	275.2	51.1
II	2,194	246.3	54.6	2,897	31.3	48.6	2,092	215.0	55.6
III	2,550	420.0	44.4	3,153	178.5	45.2	2,104	241.5	43.8
IV	2,471	712.2	55.9	3,048	241.7	50.6	2,174	470.5	59.1
V	2,148	464.0	73.2	2,625	81.2	62.3	2,047	382.7	76.0
VI	2,449	632.4	73.1	3,069	154.1	65.0	2,249	478.3	76.2
VII	1,982	530.6	68.8	2,426	142.7	58.9	1,819	387.9	73.4
VIII	2,016	385.4	70.4	2,733	81.9	70.1	1,822	303.5	70.5
IX	2,118	316.5	65.3	2,650	47.2	61.6	2,025	269.3	66.0
X	2,262	355.4	66.2	2,952	91.7	65.7	2,022	263.7	66.3
XI	2,388	426.0	61.7	2,998	143.1	59.6	2,079	282.9	62.8
XII	2,233	272.4	65.2	2,624	42.2	56.8	2,161	230.2	67.0

* The monthly income required to satisfy 100 percent of nutritional requirements and other needs of a family of 6.
** The total number of families below the poverty line or threshold in 1985.
*** Out of the total number of families, the proportion of families that fall below the povertyline in 1985.

SOURCE: Inter-agency Working Group on Poverty Determination - NEDA, FNRI, NCSO.

表 4(1) REGION別主要農産物生産高（1986）（その1）

（単位：トン）

	Ilocos	Cagayan Valley	Central Luzon	Southern Tagalog	Bicol	Western Visayas	Central Visayas	Eastern Visayas	Western Mindanao
All Crops	1,713,726	1,760,242	2,001,026	2,753,156	1,741,385	3,038,775	1,157,011	1,594,719	1,511,664
Food Crops	1,582,284	1,710,079	1,789,876	1,824,165	1,485,439	1,769,198	815,986	1,266,609	1,122,542
Palay (Rough Rice)	871,740	1,172,110	1,525,355	985,765	683,090	1,121,920	148,180	469,440	353,370
Corn (Shelled)	64,530	374,835	8,370	242,305	133,975	43,740	243,645	273,020	216,700
Fruit and nuts except Citrus	265,868	73,754	101,881	330,135	118,420	430,622	137,106	254,842	191,755
Others	241,280	67,985	121,495	262,570	83,810	392,469	119,110	247,207	185,546
Commercial Crops	131,442	50,163	211,150	928,991	255,946	1,269,577	341,025	328,110	389,122
Coconut (Products)	84,961	23,393	10,913	624,397	212,533	116,617	133,123	245,035	295,673
Sugarcane	7,576	16,615	197,127	303,218	13,536	1,149,153	205,072	61,519	8
Abaca	-	-	-	594	29,860	1,185	930	21,462	9,098
Tobacco	35,855	10,122	3,105	695	13	412	583	39	65
Coffee	1,846	4,969	230	32,971	1,215	4,793	1,445	390	17,261
Cacao	114	60	11	133	113	186	2,174	99	306
Peanut	11,117	17,394	1,954	3,051	1,118	979	19,119	844	1,661
Rootcrops	85,378	22,590	38,364	95,247	466,930	82,291	242,079	285,208	301,211
Vegetables	147,067	9,433	35,130	54,954	17,484	25,658	10,482	5,184	3,074
Others	102,446	100,790	79,251	310,751	50,347	57,425	23,089	10,702	142,968

表　4(2)　REGION別主要農産物生産高（1986）（その２）

（単位：トン）

Crops	Northern Mindanao	Southern Mindanao	Central Mindanao	Philippines
All Crops	2,673,185	5,040,157	3,544,782	28,529,828
Food Crops	2,351,905	3,995,652	3,207,726	22,921,461
Palay (Rough Rice)	342,095	653,195	770,720	9,096,980
Corn (Shelled)	252,850	1,203,315	900,735	3,922,020
Fruits and Nuts Except Citrus	1,469,021	1,927,076	729,846	6,030,326
Others	550,159	1,320,388	725,915	4,286,367
Commercial Crops	321,280	1,044,505	337,056	5,608,367
Coconut Product	177,555	983,362	254,827	3,162,389
Sugarcane	122,711	34,690	24,091	2,135,316
Abaca	5,474	9,653	4,409	82,665
Tobacco	652	56	4,405	56,002
Coffee	40,457	26,058	4,880	136,515
Cacao	846	3,070	246	6,235
Peanut	563	889	2,163	43,907
Rootcrops	184,054	101,547	763,577	2,668,476
Vegetables	20,603	18,845	9,246	357,060
Others	49,017	50,927	288,812	729,768

表 5　フィリピンの主要経済指標

	1970	1975	1980	1982	1983	1984	1985
人口（万人）	3,685	4,207	4,832	5,074	5,196	5,317	5,438
国民総生産（億ペソ）	418	1,144	2,645	3,354	3,793	5,386	6,074
国内総生産（億ペソ）	1,430	1,952	2,645	2,789	2,824	2,675	2,570
実質GNP成長率(%)					1.1	-6.8	-3.8
1人当りGNP（ペソ）		375		769	635	660	
消費者物価上昇率（%）		-		10.2	10.0	50.4	23.1
対ドル為替レート（ペソ）	5,9044	7,2479	7,5114	8,5400	11,1127	16,6987	18,6073
国際収支(100万米ドル)							
経常収支	-48	-923	-1,917	-3,212	-2,751	-1,268	8
貿易収支	-26	-1,196	-1,939	-2,646	-2,485	-679	-482
輸出	1,064	2,263	5,788	5,021	5,005	5,391	4,629
輸入	1,090	3,459	7,727	7,667	7,490	6,070	-5,111
貿易外収支	-141	-46	-412	-1,040	-738	-975	111
資本収支	271	1,094	2,684	2,846	-394	750	301
総合収支	75	-11	891	-730	-3,501	-403	952
金外貨準備高	251	1,359	3,140	1,711	864	890	1,116
商業銀行（億ルピア）							
総資産	124	470	1,230	1,637	2,007	2,244	2,055
預金残高	66	145	453	660	763	882	1,001
財政（100万ペソ）							
歳入	4,849	16,838	34,373	37,993	45,606	56,861	68,961
歳出	4,790	18,198	37,758	52,407	53,074	66,689	80,102
収支	59	-1,360	-3,385	-14,414	-7,468	-9,828	-11,141
対外債務残高(100万米ドル)	1,562	2,043	17,390	24,166	23,871	24,381	26,700
同上 対GNP比（%）	22.1	12.9	49.4	61.5	69.9	75.8	83.7
債務弁済額(100万米ドル)	258	404	1,576	2,930	2,659	2,802	2,774
同上 対輸出比（%）		12.7	19.7	36.6	32.7	35.0	35.0

IMF, International Monetary Statistics Yearbook, 1986 および同 November 1986
フィリピン中央銀行資料ほか.

表 6　歳出構成比（1987－1992）

（単位：%）

	Actual Annual average 1976-85	Estimate 1986	Projections 1987	1988	1989	1990	1991	1992	Annual Average 1987-92
Economic Services	33.9	17.3	19.9	21.6	23.9	26.3	28.4	30.3	25.1
Agriculture	7.3	3.2	3.9	5.7	6.5	7.4	8.2	9.1	6.8
Industry, trade and tourism	3.1	0.7	1.4	1.9	2.4	2.8	3.0	3.3	2.5
Utilities and infrastructure	23.5	13.4	14.6	14.0	15.0	16.1	17.2	17.9	15.8
Social Services	20.2	18.3	21.5	24.5	28.4	31.4	35.7	39.2	30.1
Education	12.3	10.2	11.5	13.2	14.1	14.9	17.1	18.7	15.0
Health	3.9	3.0	3.4	4.2	5.9	6.6	8.2	9.6	6.3
Social security and welfare	2.1	4.7	6.2	6.2	6.2	6.3	6.4	6.4	6.2
Housing and community development	1.9	0.4	0.4	0.9	2.2	3.6	4.0	4.5	2.7
Defense	14.0	6.9	7.3	7.4	8.0	8.4	8.5	8.9	8.1
General Public Services	20.0	10.0	11.3	15.7	14.7	13.7	12.3	9.6	12.9
Debt Service Fund and Net Lending[a]	11.9	47.5	40.0	30.8	25.0	20.2	15.1	12.0	23.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

a. For 1987 onwards, this item includes a portion of the external liabilities of government financial institutions to be assumed by the national government. Excludes debt service on liabilities of the Philippine Nuclear Power Plant.

Sources of Basic Data: MBM and NEDA.

表 7(1) 道路延長（1985）（その1）

（単位：km）

	National					City			
	Concrete	Asphalt	Gravel	Earth	Total	Concrete	Asphalt	Gravel	Total
Philippines	6132.90	5714.75	13601.18	810.29	26259.12	637.44	2016.48	1166.85	3820.77
N C R	440.47	421.64	14.04	-	876.15	281.87	832.78	159.09	1273.74
I	447.90	943.16	904.49	98.19	2393.74	8.25	183.42	118.05	309.72
II	607.02	107.95	1530.31	61.95	2307.23	-	-	-	-
III	810.59	501.19	378.08	-	1689.86	56.52	115.83	40.95	213.30
IV-A	507.04	973.72	854.66	16.30	10351.72	37.28	120.17	47.26	204.71
IV-B	23.47	265.89	1343.49	73.10	1705.95	0.64	7.46	54.91	63.01
V	624.42	401.32	961.39	47.45	2034.58	20.34	81.14	125.77	227.25
VI	314.73	590.39	1637.44	52.80	2595.36	79.80	163.05	51.31	294.16
VII	159.48	648.51	859.77	9.40	1677.16	32.43	236.68	24.10	293.21
VIII	664.81	58.84	1161.16	100.30	1985.11	39.09	2.81	20.02	61.92
IX	50.99	338.17	651.03	-	1040.19	8.22	76.89	36.31	121.42
X	639.07	311.62	1251.06	5.70	2207.45	36.10	71.20	98.91	206.21
XI	458.22	123.64	1234.97	142.95	1959.78	15.10	92.45	319.06	426.61
XII	384.69	28.72	819.31	202.14	1434.86	21.71	32.61	71.11	125.43

表　7(2)　道路延長（1985）（その２）

（単位：km）

Region	Municipal					Provincial				
	Concrete	Asphalt	Gravel	Earth	Total	Concrete	Asphalt	Gravel	Earth	Total
Philippines	11706.25	1579.03	6318.79	3220.75	12990.63	711.57	2739.52	19443.45	5524.74	28419.28
N C R	351.18	162.02	29.36	11.78	554.34	-	-	-	-	-
I	40.44	286.70	667.64	409.74	1404.52	48.84	483.32	1678.66	659.69	2870.51
II	21.09	56.45	827.99	236.41	1141.94	8.44	159.04	1416.70	388.23	1972.41
III	202.22	213.60	465.88	155.21	1082.09	302.75	360.87	1534.95	185.66	2384.23
IV-A	279.98	217.12	252.22	114.97	885.65	132.36	498.75	954.66	308.24	1894.01
IV-B	50.03	22.16	342.84	103.87	472.55	11.47	50.30	1667.75	351.90	2081.42
V	107.07	192.40	360.93	121.16	799.68	35.02	318.15	1089.53	361.05	1803.75
VI	197.95	87.52	345.14	59.01	695.28	61.92	94.29	1966.89	106.20	2229.30
VII	97.56	137.24	445.53	228.19	930.47	13.69	169.93	1906.53	266.51	2356.66
VIII	246.93	18.12	305.44	137.95	717.13	65.39	327.39	865.55	185.12	1443.45
IX	3.31	25.58	518.10	253.71	800.80	1.68	184.36	1563.86	278.35	2028.25
X	38.25	91.72	556.34	523.88	1221.26	14.09	87.97	1907.97	663.34	2673.37
XI	39.57	33.56	753.77	429.50	1283.37	10.74	4.50	2018.59	783.61	2817.44
XII	30.58	34.84	447.61	435.37	951.50	5.17	0.67	876.83	986.85	1869.52

表　7(3)　道路延長（1985）（その３）

（単位：km）

Region	Barangay					Total				
	Concrete	Asphalt	Gravel	Earth	Total	Concrete	Asphalt	Gravel	Earth	Total
Philippines	-	-	90213.83	-	90213.83	9188.15	12049.78	130749.11	9721.59	161708.63
N C R	-	-	234.71	-	234.71	1073.52	1416.43	437.20	11.78	2938.93
I	-	-	11011.23	-	11011.23	545.44	1896.59	14380.08	1167.62	17989.73
II	-	-	7745.80	-	7745.80	636.55	323.44	11520.80	686.59	13167.38
III	-	-	7943.06	-	7943.06	1372.08	1191.48	10362.91	386.05	13312.52
IV-A	-	-	5428.89	-	5428.89	956.66	1809.76	7537.69	460.87	10764.98
IV-B	-	-	3782.27	-	3728.27	85.61	345.82	7191.26	532.56	8155.25
V	-	-	4012.86	-	4012.86	786.85	993.01	6550.47	547.78	8878.11
VI	-	-	7486.82	-	7486.82	654.41	935.25	11487.60	223.67	13300.93
VII	-	-	5854.05	-	5854.05	303.66	1192.36	9089.97	526.04	11112.03
VIII	-	-	5113.86	-	5113.86	1016.22	407.12	7466.02	432.05	9321.44
IX	-	-	5210.93	-	5210.93	64.20	625.00	7980.22	532.16	9201.58
X	-	-	9675.19	-	9675.19	727.60	562.51	13489.47	1204.00	15983.58
XI	-	-	9306.09	-	9306.09	523.72	254.15	13631.48	1382.98	15792.33
XII	-	-	7408.08	-	7408.08	442.14	96.84	9623.94	1627.46	11790.38

付属資料８

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