6.2. 両国工事負担区分

(1) 日本側負担工事区分

日本国政府は次の鋼材等供与する。表6.2-1 参照

表6.2-1 供与鋼桁の数量

1)鋼 桁

支間長	支間数	1橋当り桁本数	H形鋼桁サイズ
12.0 m	1	4	700× 300×13×24
16.0	1	4	700× 300×13×24
17.0	2	4	700× 300×13×24
18.0	2	4	792× 300×13×24
19.0	6	4	800× 300×14×26
20.0	7	4	890× 299×15×23
21.0	2	4	900× 300×16×28
22.0	3	4	900× 300×16×28
23.0	5	4	912× 300×18×24
25.0	7	5	900× 300×16×28
計	36	41	

2)横 桁

H形鋼 ; 596× 199×10×15

形鋼 ; 250× 90× 9

鋼 板 ; 9～ 12 ㎜厚

3)沓

数量 ; 151ヶ（固定）

151ヶ（可動）

4)排水桝

数量　；　96ヶ

5)トルクレンチ

数量　；　24ヶ

6)ガードレール及び支柱

1橋当り　；　15.0 m× 4＝60m

合　計　　；　60　×　24＝1440m

6.3. 事業実施スケジュール

本事業の実施計画にあたっては、次に述べる各項目の時期等を充分考慮の上、事業実施スケジュールを作成した。

・日本側閣議決定
・交換公文締結
・工事工程
　　乾　期；　１１月～　５月
　　雨　期；　　６月～１０月

・予算措置（フィリピン側）
　　1988年；　2,000 万ペソ（既　決）
　　1989年；　2,000 万ペソ（修正可能）

本計画に関する日本国政府とフィリピン共和国政府との交換公文の締結の時期は昭和６３年４月中旬と見込んでいる。

工事工程については、特に下部工で河川流域内施工となる橋脚工の施工時期を仮締切工の不要な乾期となる様に配慮した。乾期中の１２月から１月が最適な施工時期と判断される。

これらの点を充分考慮し、工事発注時期および施工時期を２径間橋梁と１径間橋梁とに区分し、２径間橋梁については発注時期を昭和６３年５月、着工時期を昭和６３年８月と設定し、一方、１径間橋梁については発注時期を昭和６３年７月、着工時期を昭和６３年１０月と設定した。

鋼材供与対象橋梁の24橋の径間別、Region別の内訳は表6.3-1 に示すとおりである。

表6.3-1　１径間及び２径間橋梁

Region	１径間橋梁	２径間橋梁	計
Ⅱ	—	2	2
Ⅳ－B	2	—	2
Ⅴ	1	—	1
Ⅵ	—	2	2
Ⅶ	1	2	3
Ⅷ	3	—	3
Ⅸ	1	3	4
Ⅹ	4	—	4
ⅩⅠ	—	2	2
ⅩⅡ	—	1	1
計	12	12	24

以上の諸条件を考慮した本事業実施のスケジュールは次頁の、図6.3-1 フェーズⅠ橋梁、事業実施スケジュールに示すとおりである。

図6.3-1

事業実施スケジュール

フェーズⅠ橋梁

Activities \ Year		1987		1988												1989												1990		
		F.Y 62					F.Y. 63												F.Y. 64											
		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Basic Design (Phase I)				F/R																										
Appraisal and Approval						A/C	E/N																							
Detailed Design of Superstructure																														
Tendering (Steel Materials)																														
Steel Materials	Fabrication																													
	Shipment																													
Detailed Design of Substructures and Access Roads																														
2-Span Bridges (12 Br.)	Tendering																													
	Construction of Substructures and Bridge Approaches																													
	Transportation and Erection of Steel Girder																													
	Construction of Deck Slabs and Accessories																													
1-Span Bridges (12 Br.)	Tendering																													
	Construction of Substructure and Bridge Approaches																													
	Transportation and Erection of Steel Girders																													
	Construction of Deck Slabs and Accesories																													

6.4. 予算措置

フィリピン共和国側負担工事の事業費としては約4,400 万ペソと概算された。一方、フィリピン共和国の年度別公共事業投資計画によれば、本事業への予算は表6.4-1 のとおり、計上されている。

表6.4-1 事業予算配分

In Thousand Constant Price

	1988	1989	1990	Total
TP	20,000	20,000	96,000	136,000
P	20,000	20,000	96,000	136,000
S	0	0	0	0

NOTE: TP = Total Pesos (合計)
P = Peso Portion (ペソ分)
S = Foreign Portion (外貨分)

本事業計画への1988年度及び1989年度での予算額は4,000 万ペソであり、 400 万ペソ不足しているが、公共事業道路省は1988会計年度予算は既決しているが、1989会計年度予算は十分に修正可能としている。従って1989会計年度予算は、詳細設計・積算結果を踏まえ、修正するよう勧告した。

6.5. 設計・施工管理計画

本事業計画は、フィリピン共和国政府公共事業道路省の管轄により実施され、計画推進の責任者は、計画担当次官補（The Assistant Secretary for the Planning Service ）がその任務にあたる。

本事業計画に於ける設計業務の担当は設計局（Bureau of Design）であり、設計業務の主な内容は次のとおりである。

・下部工の設計・積算
・供与鋼材の内陸輸送、架設工の積算
・床版工、高欄工その他の設計・積算
・排水系統、カルバートその他の設計・積算
・護岸工の設計・積算
・取付道路の設計・積算

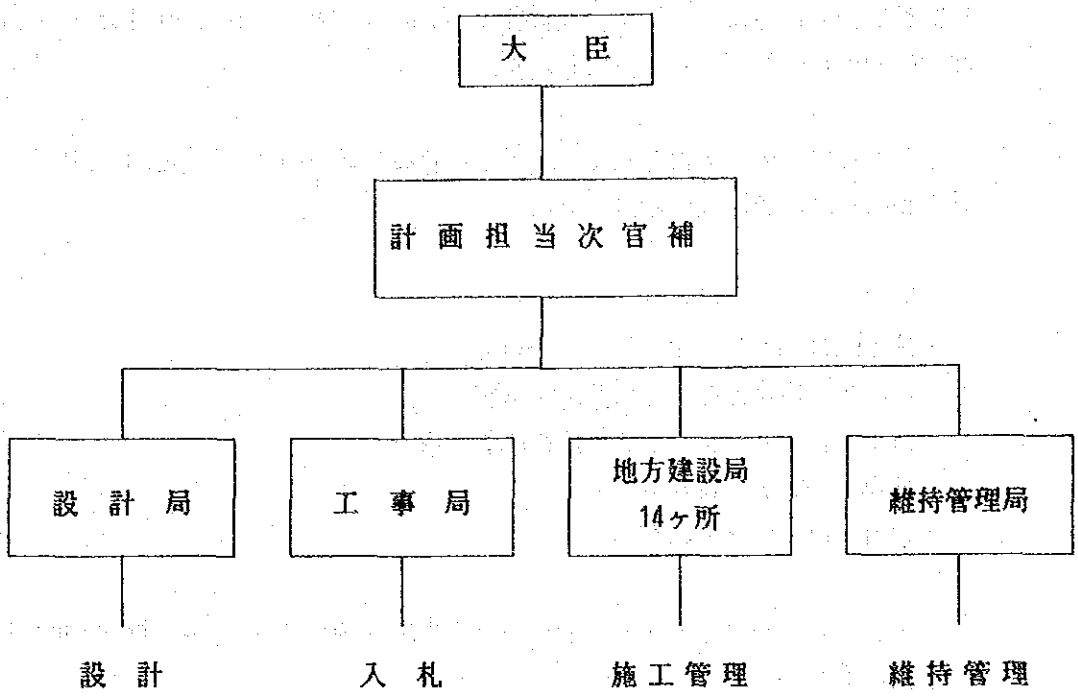
本事業計画に於ける入札業務の担当は工事局（Bureau of Construction）であり、入札業務の主な内容は次のとおりである。

・工事費、仕様書、事前資格審査等の契約書類の作成
・入札業務の実施

本事業計画に於ける施工管理は地方建設局（Regional Offices）が担当し、各Regional Office は各自管轄Regionに於ける本工事の施工について、請負業務の指揮、監督にあたる。

本事業計画の設計・入札・施工管理の各担当機関の機構は図6.5-1 事業計画実施の機構図に示すとおりである。

図6.5-1 事業計画実施の機構図



6.6. 維持管理計画

フィリピン共和国に於ける国道および橋梁の維持管理は維持管理局（The Bureau of Maintenance）が管轄している。

公共事業道路省が実施している維持管理に関しては次のような４項目からなる維持管理方式がある。

・日常維持管理…年間を通じ毎日が原則
・定期維持管理…１年以上、周期的に繰り返す
・緊急時維持管理…地滑り、洪水等の影響のため必要となる緊急時の補修
・特別維持管理…平常の維持管理の範囲外のもの

フィリピン共和国道路維持管理実施方式（ＰＨＭＭＳ）は、現在56項目の実施手法からなっているが、橋梁の維持管理方式に関しては、その内８項目の実施手段がある。

橋梁の維持管理実施方式の８項目の実施手法については表6.6-1 に示すとおりである。

表6.6-1　橋梁維持管理の実施手法

実施番号	実施手法
151	橋梁の清浄
152	ＰＣコンクリート版のパッチング
153	コンクリート橋の補修
154	鋼橋の補修
155	鋼トラス仮橋の補修
157	橋梁排水装置の掃除
402	橋梁についての緊急時の初期対応
65X	橋梁の塗装替え

フィリピン共和国道路維持管理実施方式（ＰＨＭＭＳ）で採用されている道路の維持管理実施規定のうち鋼橋の維持管理に必要な実施規定のみを表6.6-2（1～4)に示した。

これらの規定は、非常によく整備されているが、実際には予算不足などにより実行されていないこともあるので、橋梁の維持管理を適切な時期に実施するように勧告した。

表 6.6-2(1) 橋梁の維持管理 実施規定

Effective Date: 01 January 1985 MPWH - Highway Maintenance

ACT NO. 151 Name: Cleaning Bridges

DESCRIPTION: Use this activity for cleaning bridge deck wearing surface (including sidewalks), drains, rail posts and railings, wingwalls, joints, seats, tops of piers and lower chords of trusses, etc. Includes removal of unauthorized writing, but does not include painting for beautification purposes 1/.

PURPOSE: To prevent deterioration due to abrasion, corrosion, rutting and inadequate expansion and to provide safety to the travelling public.

AUTHORIZATION: District/City Engineer WORK CONTROL CATEGORY: Limited

SCHEDULING: Schedule each bridge at least once a year. Schedule prior to or during the rainy season so that rains flush the bridges. In addition to annual cleaning, schedule problem bridges as needed.

TYPICAL CREW:

1. Operator*
2*-4 Laborers

*If air compressor is used

TYPICAL WORK METHOD

1. Place safety devices.
2. Place scaffoldings if needed.
3. Perform required cleaning
4. Remove scaffolding if used.
5. Remove safety devices

TYPICAL EQUIPMENT:

No.	Code	Description
1	A1	Air compressor*
		Hand Tools
		Safety Devices

*Cleaning with compressed air is preferable to hand cleaning

TYPICAL MATERIALS:

Code	Description
	None

DAILY PRODUCTION RANGE:
12-24 linear meters of bridge cleaned

NOTES: 1/Use Act. 209 for painting concrete parts for beautification purposes.

表 6.6-2(2)　橋梁の維持管理　　実施規定

Effective Date: 01 January 1985　　MPWH - HIGHWAY MAINTENANCE

ACT. NO. 154　　NAME: Repairs to Steel Bridges

DESCRIPTION: Use this activity for minor to moderate routine repairs to steel bridges (including composite bridges). Repairs to bituminous overlays on bridge deck are included. Concrete deck patching (Act. 152), repairs to approach pavement/surface repairs, involving structural analysis and emergency repairs are not included.

PURPOSE: To maintain bridges in as-constructed conditions.

AUTHORIZATION: District/City Engineer　　WORK CONTROL CATEGORY: Limited

SCHEDULING: Schedule repairs of hazardous conditions as soon as possible. Schedule repairs of non-hazardous defects/deficiencies as needed to maintain as-constructed conditions

TYPICAL CREW:

1. Foreman
2. Driver*

3-5 Laborers or Artisan (Maintenance Man)

*If service vehicle is used

TYPICAL EQUIPMENT:

No.	Code	Description
1	H1	Service Vehicle* Hand Tools Safety Devices

*For several work locations during the day

TYPICAL MATERIALS:

Code	Description
13/23	Gravel
12/22	Sand
14/24	Boulders
30	Bituminous Hot Mix
31	Bituminous Cold Mix
32	Emulsified Asphalt
41	Portland Cement
61	Lumber*.
64	Bridge Paint

TYPICAL WORK METHOD

Work includes but not limited to:

1. Repair of:
   a. Deck wearing surface
   b. Joints
   c. Railings
   d. Sidewalks and Curbs
   e. Riprap and other erosion protection at abutments
2. Spot Painting of:
   a. Steel Members
3. Patching of:
   a. Abutment and Pier Surfaces

DAILY PRODUCTION RANGE:
1 - 3 bridges repaired

*Not to be reported

NOTE: 1/ Use Act. 71x for major repairs and repairs involving structural analysis.
2/ Use Act 209 for painting concrete parts for beautification purposes.

表 6.6-2(3) 橋梁の維持管理 実施規定

Effective Date: MPWH - Highway Maintenance

ACT. NO. 157 NAME: Clearing Bridge Waterways

DESCPRITION: Use this activity for removing debris or sand and gravel bars from waterways at the immediate vicinity of the bridge. Clearing the waterway beyond the right-of-way limits not included.

PURPOSE: To keep clear the bridge opening to full flood capacity.

AUTHORIZATION: District/City Engineer WORK CONTROL CATEGORY: Unlimited

SCHEDULING: Schedule when siltation and sedimentation occur within the bridge structure. Schedule annual cleaning during the dry season or when the bed can support equipment.

TYPICAL CREW:

1 Foreman
1 Operator*
1 Driver
2*-5 Laborers

* When equipment is used

TYPICAL EQUIPMENT

No.	Code	Description
1	L2	Front-End Loader* or
1	L1	Crawler-Mounted Tractor*
1	H3	Dump Truck

* Used when bed will support equipment

TYPICAL MATERIALS

TYPICAL WORK METHOD:

1. Take cross-section of the riverbed within the bridge right-of-way.
2. Plot the finish elevation of the riverbed and measure the volume of be removed.
3. Bring in equipment and remove the debris or sand and gravel sedimentation.
4. Throw debris out of the riverbed.
5. Use excavated sand or gravel to fill low portion downstream or bring out of riverbed and throw where it will not cause sedimentation again, or if the material passes the specification for road surfacing same may be stockpiled within the road right-of-way for maintenance use.

DAILY PRODUCTION RANGE:

100 m^3 of sediment cleared.

NOTES: (1) Use Act. 402 for removal of debris during floods.
(2) This activity does not include clearing beyond the road right-of-way limits.

表 6.6-2(4) 橋梁の維持管理 実施規定

Effective Date: 01 January 1985 MPWH-BO

ACT. NO. 65x NAME: Bridge Repainting

DESCRIPTION: Use this activity for complete repainting of steel member of bridges.

PURPOSE: To paint steel member of bridges for protection against erosion.

AUTHORIZATION: Regional Director WORK CONTROL CATEGORY: Project

SCHEDULING: Schedule after regional approval is received.

TYPICAL CREW:

1 Foreman
6-10* Laborers including artisans (maintenance men)
1 Driver

TYPICAL WORK METHOD:

1. Place safety devices.
2. Place scaffoldings, if needed.
3. Clean steel members, removing all corrosion.
4. Paint with primer immediately following cleaning
5. Apply final paint coat.
6. Remove safety devices.

* If no equipment is used

TYPICAL EQUIPMENT:

No.	Code	Description
1	X5	Sand Blasting Equipment
1	A1	Air Compressor
1	X4	Paint Outfit (Including paint spray gun)
		Hand Tools*
		Safety Devices
		Scaffoldings

* Includes steel brushes

TYPICAL MATERIALS:

Code	Description
64	Bridge Paint

DAILY PRODUCTION RANGE:

1 bridge painted every 5 to 10 days

NOTES: (1) Use the appropriate subgroup 15 - activity for spot repainting
(2) Use Act. 689 for transporting equipment and material to the job site.

6.7. 概算建設費

総建設費は概算で７億円と見積られた。このうち、日本国側負担分は４億円、フィリピン国側負担分は３億円である。

表6.7-1 参照。

項　目	数　量	単　価	費　用
日本国側負担分			
鋼材製作	970ｔ	385,000 円	373,000,000円
船輸送	970ｔ	28,000 円	27,000,000円
		計	400,000,000円
フィリピン側負担分			
橋台	48ヶ所	252,000 ペソ	12,100,000ペソ
橋脚	12ヶ所	317,000 ペソ	3,800,000ペソ
内陸輸送と桁架設	970ｔ	690,000 ペソ	6,700,000ペソ
ＰＣＣ舗装等	6360㎡	2,400 ペソ	15,300,000ペソ
橋梁取付道路	360ｍ	7,600 ペソ	2,700,000ペソ
カルバートボックス等	20ヶ所	100,000 ペソ	2,000,000ペソ
護岸工	9000㎡	150 ペソ	1,400,000ペソ
		計	44,000,000ペソ
			(300,000,000円)
		合計	700,000,000円

第７章　事業評価

第７章　事業評価

老朽化などによる橋梁の機能停止は単に交通障害のみならず、これらの橋梁の影響を受ける地方部での経済開発促進や、国民生活を直接あるいは間接的に圧迫している。これらの橋梁で影響を受ける地方部では輸送手段の確保に信頼がおけず、私企業の投資意欲を減退させ、地方部の開発促進を阻害している。

本事業計画の完成後は、輸送手段の確保により、地方部の開発の展望が開けるであろう。とりわけ輸送施設のレベル向上に伴い、地方部の生産性の向上および社会生活の発展に大きく寄与できるものと考えられる。

従って、本事業計画の効果については、交通関連の観点からのみならず、社会・経済関連の観点からも評価すべきである。

(1)　直接効果

本事業計画から発生する直接効果は、道路利用者側の便益および政府側の便益である。前者は、道路利用者の車輌運行、輸送時間及び事故減少などによって評価される。一方、後者は、維持管理コスト、修繕コストなどの節減およびプロジェクトの残存価格によって評価される。

また、本事業の現実的な効果としては、次の項目が考えられる。

1) 雨期における交通途絶が解消される。
2) 輸送・運行時間が短縮される。
3) 重機・大型荷物トラック等が安全に通行できる。
4) 地方道路網の機能が向上する。
5) 交通の安全性が飛躍的に向上する。

(2) 間接効果

本事業計画の種々の間接効果は、いずれも計量化できないが、社会・経済効果の観点から評価されるべきものである。

その効果としては、次の項目が考えられる。

1)住民の生活レベル向上
2)社会活動の活性化
3)雇用機会の拡大
4)地域格差の解消
5)物価の安定
6)農業および工業生産力の開発
7)私企業の投資意欲の促進

本事業計画は、地方部住民の経済活動促進に貢献するばかりではなく、さらに、孤立化した遠隔地の住民をフィリピン共和国の社会・経済活動の主流に導き、統合する手段としても有効であると考えられる。

第8章　結論と提言

第８章　結論と提言

8.1.　結　論

本計画はフィリピン国地方道の老朽橋、あるいは仮橋を永久橋に架け替えを行ない、雨期において、しばしば孤立する地域の交通の確保を目的とするものである。

アキノ新政権は1987年１月、地方部における生産性を高め、貧困の緩和を基本目標とする「フィリピン中期開発計画」（Medium-Term Philippine Development Plan 1987-1992）を策定した。その中に述べられている道路開発計画においては農村と市場間を接続する地方道の改良を強調し、その一貫として仮橋、老朽橋を永久橋に架け替えることを重要な戦略の１つとして取り上げている。

本計画は正にこの中期開発計画の戦略と合致したものであり、地方地域の開発を促進し、雇用機会の拡大ひいては持続的経済成長に大きく寄与するものと確信される。したがって本計画が日本政府の無償資金援助によって実施されることは極めて有意義であり、その妥当性は高いといえる。

8.2.　提　言

フィリピン国の現況からみて、地域の開発、雇用の確保は緊急を要する課題であり、本計画は可及的速やかに実施されることが必要である。

そのため日本国政府とフィリピン共和国政府の間において、鋼材引渡し後１年以内に全てのフェーズＩ対象橋梁の架け替えが終るというスケジュールが合意されている。

このスケジュールに沿って本計画の工事を完成するためにはフィリピン政府として充分な対応がとられることが必要であり、以下の提言を行なう。

(1) 本計画実施のための予算措置が速やかに取られること。

フィリピン共和国側負担工事の事業費としては約 4,400万ペソと概算された。一方、フィリピン共和国の年度別公共事業投資計画によれば、本事業計画への1988年度および1989年度での予算額は 4,000万ペソであり、 400万ペソ不足しているが、詳細設計・積算結果を踏まえ、修正されること。

(2) 本計画の実施に対する組織を確立すること。

本計画は、フィリピン共和国政府公共事業道路省の管轄により実施され、計画推進の責任者は、計画担当次官補がその任務にあたり、設計業務は設計局、入札業務は工事局、施工管理は地方建設局が各々担当するが、本計画推進のため、必要かつ適切な技術者、人員を配置すること。

(3) 本計画の実施スケジュールは、次に述べる各項目の時期等を充分考慮の上、設定すること。

工事工程については、特に下部工で河川流域内施工となる橋脚工の施工時期を仮締切工の不要な乾期中の12月から１月となるよう工事発注時期および施工時期を２径間橋梁と１径間橋梁とに区分し、２径間橋梁については発注時期を昭和63年５月、着工時期を昭和63年８月に設定すること。１径間橋梁については発注時期を昭和63年７月、着工時期を昭和63年10月に設定すること。

(4) 本計画の詳細設計は、次に述べる各項目を充分考慮の上、実施すること。

上部工の詳細設計は、日本のコンサルタントが行なうが、下部構造、およびその他橋梁取付部等の必要な付帯工事の設計および施工は、公共事業道路省の責任において実施されること。

上部工、下部工の詳細設計に適用される設計条件は、公共事業道路省と調査団が検討し、合意した設計条件に基づき実施されること。

橋梁建設位置は、計画一般図に図示されているが、公共事業道路省は現地の地形状況、河川洪水状況、道路線形、施工方法を再検討し、最終的に建設位置を決定するものとする。しかし、建設位置の変更に伴う橋長と基本形式には変更がないものとする。

付 属 資 料

付属資料 1

調査団の構成・現地調査団日程、面会者リスト

1．調査団の構成

担当業務	氏　　名	現　　職
総　　括	神　　弘　夫	本州四国連絡橋公団企画開発部 調査課課長
鋼材供与計画	有　本　俊　幸	通商産業省基礎産業局鉄鋼業務課 課長補佐
計画管理	力　石　寿　郎	国際協力事業団無償資金協力計画 調査部基本設計調査第二課
橋梁計画	戸　次　庸　夫	（株）片平エンジニアリング
橋梁設計	内　田　信　行	（株）片平エンジニアリング
施工計画	三　浦　　実	（株）片平エンジニアリング
積　　算	阿久津　澄　男	（株）片平エンジニアリング

2．現地調査団日程

昭和62年11月24日より同年12月23日まで実施した本調査団の現地調査日程は下記のとおりである。

日順	月　日	曜日	調査業務の概要
1	昭和62年11月24日	火	マニラ到着 日本大使館，JICAにおいて会議
2	〃　〃　25日	水	DPWHスタッフと会議 インセプションレポートの説明・協議 資料の収集、照査
3	〃　〃　26日	木	資料分析 調査団内打合せ
4	〃　〃　27日	金	現地視察0401a，0403a 橋
5	〃　〃　28日	土	資料分析 調査団内打合せ
6	〃　〃　29日	日	収集資料の照査 フェイズⅠ橋梁選定
7	〃　〃　30日	月	収集資料の照査 フェイズⅠ橋梁選定
8	〃　12月 1日	火	DPWHスタッフと技術協議 フェイズⅠ、フェイズⅡ橋梁選定理由の説明
9	〃　〃　2日	水	フェイズⅠ、フェイズⅡ橋梁選定理由の説明
10	〃　〃　3日	木	ミニッツ案について協議 ミニッツ締結 日本大使館JICAにて報告会議

11	昭和62年12月 4日	金	神氏、有本氏、力石氏帰国
12	〃 〃 5日	土	収集資料の分析 橋梁の一般図作成
13	〃 〃 6日	日	収集資料の分析 橋梁の一般図作成
14	〃 〃 7日	月	収集資料の分析 フェイズⅠ橋梁の一般図作成
15	〃 〃 8日	火	収集資料の分析 フェイズⅠ橋梁の一般図作成
16	〃 〃 9日	水	収集資料の分析 フェイズⅠ橋梁の一般図作成
17	〃 〃 10日	木	フェイズⅠ橋梁の一般図作成 フェイズⅡ橋梁の一般図作成
18	〃 〃 11日	金	フェイズⅠ橋梁基本設計 フェイズⅡ橋梁基本設計
19	〃 〃 12日	土	フェイズⅠ橋梁基本設計 フェイズⅡ橋梁基本設計 フェイズⅠ橋梁問題の検討
20	〃 〃 13日	日	フェイズⅠ橋梁の施工方法の検討 フェイズⅠ橋梁の概算工事費の算出 フェイズⅡ橋梁問題の検討
21	〃 〃 14日	月	DPWHスタッフと技術協議 フェイズⅠ橋の施工方法の検討 フェイズⅠ橋梁の概算工事費の算出 フェイズⅡ橋梁問題の検討

22	昭和62年12月15日	火	DPWHスタッフと技術協議
23	〃 〃 16日	水	DPWHスタッフと技術協議 下部構造物設計と舗装設計の指導
24	〃 〃 17日	木	DPWHスタッフと技術協議 舗装設計と河川護岸設計の指導
25	〃 〃 18日	金	フェイズⅠ橋梁の社会経済影響の調査 フェイズⅠ橋梁のメインテナンスシステムと組織体制の調査・検討
26	〃 〃 19日	土	フェイズⅠ橋梁の社会経済影響の調査 フェイズⅠ橋梁実施スケジュールの検討 DPWH側のフェイズⅠ橋梁のメインテナンスシステムと組織体制の検討
27	〃 〃 20日	日	フェイズⅠ橋梁の実施スケジュールの検討
28	〃 〃 21日	月	DPWHスタッフと技術協議
29	〃 〃 22日	火	日本大使館JICAにおいて報告会議
30	〃 〃 23日	水	帰国

3．面会者リスト

本調査団が面談した関係者は以下のとおりである。

所属および氏名	地位
フィリピン	
日本大使館	
谷崎　泰明　氏	一等書記官
神長　耕二　氏	一等書記官
国際協力事業団	
フィリピン事務所	
大島　勝彦　氏	次　長
小澤　勝彦　氏	所　員
公共事業道路省	
中村　俊行　氏	JICA派遣専門家（道路計画・交通工学）
公共事業道路省	
FIORELLO R. ESTUAR	- Undersecretary
TEODORO T. ENCARNACION	- Undersecretary
JOSE F. MABANTA	- Undersecretary
MANUEL M. BONOAN	- Asst. Secretary for Planning
FRANCISCO N. PASCUAL	- Director, Bureau of Design
EDMUNDOR V. MIR	- Director, Bureau of Construction
LINDA M. TEMPLO	- Chief Civil Engineer DPD, Planning Service
GERONIMO S. ALONZO	- Chief Civil Engineer PMO-Feasibility Study
CRISPIN B. BANAAG, JR	- Chief Economist DPD, Planning Service
PACIANO D. TUBAL	- Supvg. Civil Engineer Bureau of Construction
CARLOS V. RODRIGUEZ	- Chief Civil Engineer Bureau of Design
EDWIN C. MATANGUIHAN	- Supvg. Civil Engineer II Bureau of Design
RUFINO D. VALIENTE	- Supvg. Civil Engineer Bureau of Design

付属資料２

協　議　議　事　録

MINUTES OF DISCUSSIONS
of
THE BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE I)
in
THE REPUBLIC OF THE PHILIPPINES

In response to the request by the Government of the Republic of the Philippines, the Government of Japan decided to conduct a basic design study on the project for constructing bridges along rural roads in the Philippines (Phase I) (hereinafter referred to as "the Project"). The Japan International Cooperation Agency (JICA) sent the Basic Design Study Team headed by Mr. Hiro-o JIN, Head, Research Division, Planning and Development Department, Honshu-Shikoku Bridge Authority, from November 24 to December 23, 1987.

The Japanese Team held a series of discussions and exchanged views on the Project with the authorities concerned of the Government of the Philippines.

As a result of the study and discussions, both parties mutually agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined toward the realization of the Project.

Manila December 3, 1987

神 弘夫

Mr. HIRO-O JIN
Leader
Basic Design Study Team
JICA

MANUEL M. BONOAN
Assistant Secretary for Planning
Department of Public Works & highways

ATTACHMENT

1. The scope of the Japan's Grant Aid for the Project (Phase I) is to provide steel materials necessary for constructing bridges which are listed in Annex 1.

   Steel materials consist of:

   1. Steel Girder
   2. Cross Beam
   3. Shoe
   4. Drainage Box
   5. Torque Wrench
   6. Steel Railing and Post for the Bridge Approach

2. The Government agency in the Philippines responsible for the implementation of the Project is the Department of Public Works and Highways.

3. The bridges for Phase I are shown in Annex 1.

4. The candidate bridges for Phase II are shown in Annex 2.

5. The Team will convey to the Government of Japan, the desire of the Government of the Philippines that the former will provide necessary arrangements and steel materials necessary in implementing the Project within the scope of Japan's Grant Aid.

6. The Philippines side has understood the system of the Japan's Grant Aid and the necessity of engaging the services of a Japanese consulting firm for the implementation of the Project.

7. The Government of the Philippines will undertake to provide the necessary measures as listed in Annex 3 on condition that Japan's Grant Aid is extended to the Project.

8. The Government of the Philippines will provide the necessary budget and personnel for the proper and effective maintenance of the bridges to be constructed under the Japan's Grant Aid.

LIST OF BRIDGES FOR PHASE I

Bridges No.	Name of Bridges	Location
02.03	Baan Bridge # 2	Km. 246 + 171 Nueva Viscaya-Benguet Road Baan, Kayapa, Nueva Vizcaya
02.04	Diora Bridge	Km. 634 + 195 Dugo-San Vicente Road Sta. Ana, Cagayan
04.07b	Dipulao Bridge	Km. 2 + 706 Coron-Busuanga National Road Coron, Palawan
04.08b	Cogon Bridge	Km. 64 + 974 Odiongan (Tulay)-Looc Road Looc, Romblon
05.02	Patitinan Bridge	Km. 499 + 200 Sagnay-Tiwi-Albay Bdry. Road Patitinan, Sagnay, Camarines Sur
06.02	Cataan Bridge	Km. 65 + 930 Tiolas-Sinogbuhan Road San Joaquin, Iloilo
06.4	Guintas Bridge	Km. 106 + 500 Tapaz-Jamindan Road Jamindan, Capiz
07.03	Campanga Bridge	Km. 63 + 500 Carcar-Barili-Mantayupan Road Barili, Cebu
07.04	Camachiles Bridge	Km. 49 + 800 Toledo-Tabuelan-San Remegio Road Talavera, Toledo City
07.05	Lagnason Bridge	Km. 115 + 200 Anatalio Bacalso Avenue Lagunde, Oslob Cebu
08.01	Poray Bridge	Km. 1043 + 798 Jct. Buenavista-Lawa-an Road Parina, Balangiga, E. Samar
08.02	Iba Bridge	Km. 914 + 800 Basey-Magallanes Road Iba, Basey, Samar

LIST OF BRIDGES FOR PHASE I

Bridges No.	Name of Bridges	Location
08.05	Pinucawan Bridge	Km. 68 + 280 La Paz-Javier-Bito Road Javier, Leyte
09.01	Batungal Bridge	Km. 26 + 440 Isabela-Maluso Road Maluso, Basilan
09.02	Mangop Bridge	Km. 439 + 740 Sindangan-Liloy Road Zamboanga del Norte
09.03	Canawan Bridge	Km. 449 + 740 Sindangan-Liloy Road Zamboanga del Norte
09.04	Piangon Bridge	Km. 337 + 380 Dipolog-Sindangan National Road Sindangan, Zamboanga del Norte
10.02	Maradugao Bridge	Km. 1608 + 942 Maradugao-Camp Kibaritan Road Kalilangan, Bukidnon
10.03	Maundo Bridge	Km. 1386 + 957 Pulang Lupa-Patrocinto Road Sta. Josefa, Agusan del Sur
10.04	Sta. Irene Bridge	Km. 1282 + 110 Bayugan-Kalaitan-Tandag Road Sta. Irene, Agusan del Sur
10.05	Malubog Bridge	Km. 185 + 760 Labuyo-Tangub-Silanga Road Barangay 4, Tangub City
11.01	Lambunao Bridge	Km. 1267 + 027 Surigao Sur-Davao Coastal Road Lanuza, Surigao del Sur
11.03	Calabanit Bridge	Km. 1716 + 083 Davao del Sur-South Cotabato Coastal Road Glan, South Cotabato
12.03	Upian Bridge	Km. 239 + 002 Cotabato-Bukidnon Road Kimadzil, Carmen, North Cotabato

LIST OF BRIDGES FOR PHASE II

Bridges No.	Name of Bridges	Location
02.01	Sta. Cruz Bridge	Km. 640 + 747 Dugo-San Vicente Road Sta. Ana, Cagayan
02.02	Dumadata Bridge	Km. 339 + 770 Cordon-Diffun-Madella-Aurora Road Mangandingay, Cabarroguis Quirino
02.05	Diduyon Bridge	Km. 374 + 060 Cordon-Diffun-Madella-Aurora Road Maddela, Quirino
04.01a	Binambang Bridge	Km. 107 + 540 Balayan-Balibago-Calatagan Road Caloocan, Balayan, Batangas
04.03a	Leviste II Bridge	Km. 92 + 430 Talisay-Laurel-Agoncillo Road Laurel, Batangas
04.04b	Lumang Bayan Bridge	Km. 34 + 954 Mamburao-North Puerto Galera Road Orelan, Abra de Ilog Mindoro Occidental
04.05b	Olangoan Bridge	Km. 74 + 524 Puerto Princesa North Road Concepcion, Puerto Princesa City Palawan
04.06b	Bongabon Bridge	Km. 122 + 720 Calapan South-Bulalacao- San Jose Road Bongabon, Oriental Mindoro
05.03	Narangasan I Bridge	Km. 31 + 145 Jct. Tawad-Balud Road Milagros, Masbate
06.03	Iyang Bridge	Km. 109 + 962 Concepcion-San Dionisio National Road Concepcion, Iloilo
07.01	Banban Bridge	Km. 61 + 100 Pinamungahan-Aloguinsan- Mantalongon Road Pinamungahan, Cebu

LIST OF BRIDGES FOR PHASE II

Bridges No.	Name of Bridges	Location
07.02	Campacas Bridge	Km. 97 + 600 Dalaguete-Mantalongon Road Dalaguete, Cebu
08.03	Habay Bridge	Km. 1075 + 440 Liloan-San Francisco Road Habay, San Francisco, S. Leyte
08.04	Talisayan River Crossing	Km. 66 + 440 La Paz-Javier-Bito Road Talisayan, Javier, Leyte
09.05	Patunan Bridge	Km. 375 + 090 Dipolog-Sindangan Road Manukan, Zamboanga del Norte
10.01	Hayangabon I Bridge	Km. 1202 + 586 Surigao-Davao Coastal Road Hayangabon, Claver Surigao del Norte
11.04	Manay Bridge	Km. 1643 + 783 Davao Oriental-Surigao del Sur National Road Manay, Davao Oriental
12.01	Pikinit Bridge	Km. 136 + 936 Dobleston-Tukuran Road Caromatan, Lanao del Norte
12.02	Durugao Bridge	Km. 216 + 498 Awang-Upi-Lebak Road Durugao, South Upi, Maguindanao
12.04	Dangolaan Bridge	Km. 133 + 983 Dobleston-Tukuran Road Caromatan, Lanao del Norte
12.05	Sapakan Bridge	Km. 211 + 530 Dulawan-Marbel Road Sapakan, Maguindanao

ANNEX 3

The Government of the Republic of the Philippines will take necessary measures on the following matters:

1. To provide necessary data and information for basic design study.

2. To construct the bridges listed in Annex 1 within the period of 1 year after delivery of steel materials at designated port of entry provided under the Japan's Grant Aid.

3. To ensure prompt unloading and customs clearance at port of entry in the Philippines.

   - Tax exemption and customs clearances of the steel materials at the port of entry and prompt internal transportation therein of the steel materials provided under the Japan's Grant Aid.

4. To exempt Japanese nationals engaged on the Project from customs duties, internal tax and other fiscal levies which may be imposed in the Philippines with respect to the services to be rendered by said nationals.

5. To assume all the other expenses necessary for the construction of the bridges as well as for inland transportation of the bridge steel materials provided under the Japan's Grant Aid from the port of entry to each bridge site.

   - All necessary application for permits and their expenses as required by law in the Philippines.

6. To bear the following commissions to the Japanese foreign exchange bank/for the banking services based upon the Banking Arrangement.

   - Advising commission of Authorization to Pay
   - Payment commission

付属資料３

当初要請橋梁リスト

当初要請橋梁リスト

	橋梁名	橋長	備考
I	1. Malaya Bridge Tagudin, Cervantes Road Ilocos Sur, Km. 337 + 339	50 L.M.	老朽仮橋
	2. Ellet Bridge Gurel - Bokod - Kabayan Baguias - Abatan Road, Benguet, Km. 324 + 730	25 L.M.	同 上
	3. Balacis Bridge Manila North Road Darat Sct. - Pinili - Nueva Era Road Ilocos Norte	50 L.M.	同 上
II	1. Lamo Bridge Daang Maharlika Jct. Lamo - Malasin Rd., Nueva Vizcaya	45 L.M.	現橋流失
	2. Cadcadin Bridge # 1 Bangag - Allacapan Magapit Road, Cagayan	30 L.M.	同 上
	3. Dumadata Bridge Cabarroguis, Quirino	30 L.M.	老朽仮橋
III	1. Ligaya Bridge Km. 158 + 822 Tablang, Gabaldan - Quezon Road Nueva Ecija	25 L.M.	同 上
	2. Pasong Inchic Bridge Nueva Ecija - Pangasian Rd. Nueva Ecija	50 L.M.	同 上
	3. Cabcaban Bridge Mariveles, Bataan	25 L.M.	同 上
IV-A	1. Sabang Bridge Km. 87 + 610 Calamba, Nagcarlan Road Laguna	25 L.M.	現橋崩壊
	2. Casiguran Bridge Baler, Casiguran National Road, Aurora	55 L.M.	老朽仮橋

当初要請橋梁リスト

	橋梁名	橋長	備考
VI-B	1. Dangalasan Bridge CSR Victoria, Calapan Oriental Mindoro Km. 14 + 000	35 L.M.	老朽仮橋
	2. Washington Bridge Odiongan, Tablas Island Romblon	35 L.M.	同 上
	3. Olargoan Bridge PPNR Road, Section Puerto Princesa City Km. 76 + 135	35 L.M.	同 上
V	1. Buguit Bridge Km. 312.848 Manila South Road Camarines Norte	30 L.M.	上部工架け替え要
	2. Patitinan Bridge Km. 500.40 Sangay, Camarines Sur	20 L.M.	老朽仮橋
	3. Narangan Bridge Tawad-Balud Road Masbate	45 L.M.	同 上
VI	1. Talus Bridge Bacolod-Muricia- Pandanon-Don Salvador Benedicto-Calatrava Road Negros Occidental	30 L.M.	同 上
	2. Nasali Bridge Odiongan-Sibalom- San Remigio-Leon Road Antique Km. 115.800	20 L.M.	同 上
	3. Gubaton Bridge Iloilo East Coast Capiz Road, Sara, Iloilo, Km. 95.60	25 L.M.	同 上
VII	1. Camachiles Bridge Km. 49.800, Toledo-Tabuelan	35 L.M.	同 上
	2. Jagonipa Bridge #88.86 Dumaguete South Rd. Negros Oriental	45 L.M.	同 上

当初要請橋梁リスト

	橋梁名	橋長	備考
VII	3. Tangohoy Bridge Km. 39.192, Tagbilaran East Road Bohol II	45 L.M.	上部工鉄筋露出
VIII	1. Poray Bridge Km. 236 + 130 Eastern Samar	20 L.M.	老朽仮橋
	2. Biliran Bridge Km. 1132 + 661 Maasin, Southern Leyte	50 L.M.	同上
	3. Iba Bridge Km. 914 + 800 Catbalogan, Samar	20 L.M.	同上
IX	1. Sanga-Sanga Bridge Km. 8 + 180, Bonga-Panut Sanga-Sanga Road Tawi-Tawi	30 L.M.	同上
	2. Batungal Bridge Km. 26.440 Isabela-Maluso Road Basilan	20 L.M.	同上
	3. Bobongan Bridge #111 Liloy-Labason Road Zamboanga del Norte	40 L.M.	同上
X	1. Hayangabon Bridge #1 Surigao-Davao Coastal Road Surigao del Norte Km. 1202.596	40 L.M.	同上
	2. Ticalaan Bridge Km. 1513 - 410, Jct. Ticalaan - Panganan Road Bukidnon	40 L.M.	同上
	3. Maundo Timber Bridge Km. 1386 + 957.20 Agusan del Sur	50 L.M.	同上
XI	1. Lambunao Bridge Lanuza, Surigao del Sur	40 L.M.	同上
	2. Balidadon Bridge #111 Cortes, Surigao del Sur	35 L.M.	同上

当初要請橋梁リスト

	橋梁名	橋長	備考
XI	3. Carabatuan Creck Davao Oriental - Surigao Sur Road Davao Oriental	35 L.M.	現橋なし
XII	1. Pikinit Bridge Km. 136 + 936 Dobleston-Tukuran Road Lanao del Norte	20 L.M.	老朽仮橋
	2. Darugao Bridge Km. 216 + 498 Awang-Upi-Lebak Road Maguindanao	40 L.M.	同上
	3. Upian Bridge Km. 239 + 002 Cotabato	45 L.M.	同上

付属資料4

変更要請橋梁リスト

変更要請橋梁リスト

橋梁番号	橋 梁 名	橋 長(m)	現況の橋種
01.01	ELLET BRIDGE Km. 327 + 500 Gurel-Bokod-Kabayan-Buguias Road Bokod-Kabayan Boundary Benguet	25	鋼トラス仮橋
01.02	BIMMILOG BRIDGE Km. 376 + 658 Narvacan-Sulvec Port Road Turod, Narvacan, Ilocos Sur	30	木構脚橋
01.03	MALAYA BRIDGE Km. 376 + 570 Tagudin-Cervantes Road Cervantes, Ilocos Sur	50	鋼トラス橋
02.01	STA. CRUZ BRIDGE Km. 640 + 747 Dugo-San Vicente Road Sta. Ana, Cagayan	90	木 橋
02.02	DUMADATA BRIDGE Km. 339 + 770 Cordon-Diffun-Maddela-Aurora Road Mangandingay, Cabarroguis Quirino	30	鋼トラス仮橋
02.03	BAAN BRIDGE # 2 Km. 246 + 171 Nueva Vizcaya-Benguet Road Baan, Kayapa, Nueva Vizcaya	45	同 上
02.04	DIORA BRIDGE Km. 634 + 195 Dugo-San Vicente Road Sta. Ana, Cagayan	50	木 橋
02.05	DIDUYON BRIDGE Km. 374 + 060 Cordon-Diffun-Maddela-Aurora Road Maddela, Quirino	30	同 上（流 失）
03.01	SEGUM BRIDGE Km. 153 + 798 Jct. Tablang-Gabaldon-Quezon Boundary Road Pinto, Gabaldon, Nueva Ecija	34	木 橋
03.02	CALABASA BRIDGE Km. 157 + 269 Jct. Tabalang-Gabaldon-Quezon Boundary Road Calabasa, Gabaldon, Nueva Ecija	12	同 上

変更要請橋梁リスト

橋梁番号	橋梁名	橋長(m)	現況の橋種
03.03	MALINAO BRIDGE Km. 166 + 631 Jct. Tablang-Gabaldon-Quezon Boundary Road Malinao, Gabaldon, Nueva Ecija	12	木橋
03.04	ASAN BRIDGE Km. 166 + 295 Jct. Tablang-Gabaldon-Quezon Boundary Road Gabaldon, Nueva Ecija	36	同上
04.01a	BINAMBANG BRIDGE Km. 107 + 540 Balayan-Balibago-Calatagan Road Caloocan, Balayan, Batangas	80	スピルウェイ
04.02a	MANGO BRIDGE Km. 26 + 700 San Mateo-Rodriquez (Montalban) Rd. Rodriquez, Rizal	40	下部構造物の欠陥
04.03a	LEVISTE II BRIDGE Km. 92 + 430 Talisay-Laurel-Agoncillo Road Laurel, Batangas	40	木橋（流失）
04.04b	LUMANG BAYAN BRIDGE Km. 34 + 954 Mamburao-North Puerto Galera Road Orelan, Abra de Ilog Mindoro Occidental	60	鋼トラス仮橋
04.05b	OLANGOAN BRIDGE Km. 74 + 524 Puerto Princesa North Road Concepcion, Puerto Princesa City Palawan	36	同上
04.06b	BONGABON BRIDGE Km. 122 + 720 Calapan South-Bulalacao-San Jose Rd. Bongabon, Oriental Mindoro	351	コンクリート下部工、 鋼トラス仮橋 支間長27m，13径間
04.07b	DIPULAO BRIDGE Km. 2 + 706 Coron-Busuanga National Road Coron, Palawan	30	鋼トラス仮橋
04.08b	COGON BRIDGE Km. 64 + 974 Odiongan (Tulay)-Looc Road Looc, Romblon	20	同上
05.01	DAGUIT BRIDGE Km. 312 + 848 Manila South Road Daguit, Labo, Camarines Norte	30	I形鋼桁橋

変更要請橋梁リスト

橋梁番号	橋梁名	橋長(m)	現況の橋種
05.02	PATITINAN BRIDGE Km. 499 + 200 Sagnay-Tiwi-Albay Bdry. Road Patitinan, Saganay, Camarines Sur	20	鋼トラス仮橋
05.03	NARANGASAN I BRIDGE Km. 31 + 145 Jct. Tawad-Balud Road Milagros, Masbate	45	木 橋
06.01	TALUS BRIDGE Km. 41 + 150 Murcia-Don Salvador-Calatrava Road Murcia, Negros Occidental	40	水面下
06.02	CATAAN BRIDGE Km. 65 + 930 Tiolas-Sinogbuhan Road San Joaquin, Iloilo	45	鋼トラス仮橋
06.03	IYANG BRIDGE Km. 109 + 962 Concepcion-San Dionisio National Rd. Concepcion, Iloilo	25	木 橋
06.04	GUINTAS BRIDGE Km. 106 + 500 Tapaz-Jamindan Road Jamindan, Capiz	20	鋼トラス仮橋
06.05	TUMALALUD BRIDGE Km. 104 + 400 Jct. National Road-San Rafael Road Tumalalud, Dumarao, Capiz	30	コンクリート下部工 鋼トラス仮橋
07.01	BANBAN BRIDGE Km. 61 + 100 Pinamungahan-Aloguinsan-Mantalongon Rd. Pinamungahan, Cebu	30	木 橋
07.02	CAMPACAS BRIDGE Km. 97 + 600 Dalaguete-Mantalongon Road Dalaguete, Cebu	25	鋼トラス仮橋
07.03	CAMPANGA BRIDGE Km. 63 + 500 Carcar-Barili-Mantayupan Road Barili, Cebu	15	同 上
07.04	CAMACHILES BRIDGE Km. 49 + 800 Toledo-Tabuelan-San Remegio Road Talavera, Toledo City	35	同 上
07.05	LAGNASON BRIDGE Km. 115 + 200 Anatalio Bacalso Avenue Lagunde, Oslob Cebu	35	同 上

変更要請橋梁リスト

橋梁番号	橋 梁 名	橋 長(m)	現況の橋種
08.01	PORAY BRIDGE Km. 1043 + 798 Jct. Buenavista-Lawa-an Road Parina, Balangiga, E. Samar	20	木 橋
08.02	IBA BRIDGE Km. 914 + 800 Basey-Magallanes Road Iba, Basey, Samar	22	鋼トラス仮橋
08.03	HABAY BRIDGE Km. 1075 + 448 Liloan-San Francisco Road Habay, San Francisco, S. Leyte	62	同 上
08.04	TALISAYAN RIVER CROSSING Km. 66 + 800 La Paz - Javier-Bito Road Talisayan, Javier, Leyte	60	現橋なし
08.05	PINUCAWAN BRIDGE Km. 68 + 280 Lapaz-Javier-Bito Road Javier, Leyte	15	木 橋
09.01	BATUNGAL BRIDGE Km. 26 + 440 Isabela-Maluso Road Maluso, Basilan	20	同 上
09.02	MANGOP BRIDGE Km. 439 + 740 Sindangan-Liloy Road Zamboanga del Norte	45	同 上
09.03	CANAWAN BRIDGE Km. 449 + 740 Sindangan-Liloy road Zamboanga del Norte	35	同 上
09.04	PIANGON BRIDGE Km. 337 + 380 Dipolog-Sindangan National Road Sindangan, Zambo del Norte	20	鋼トラス仮橋
09.05	PATUNAN BRIDGE Km. 375 + 090 Dipolog-Sindangan Road Manukan, Zamboanga del Norte	25	同 上
10.01	HAYANGABON I BRIDGE Km. 1202 + 586 Surigao-Davao Coastal Road Hayangabon, Claver Surigao del Norte	40	木 橋

変更要請橋梁リスト

橋梁番号	橋 梁 名	橋 長(m)	現況の橋種
10.02	MARADUGAO BRIDGE Km. 1608 + 942 Maradugao-Camp Kibaritan Road Kalilangan, Bukidnon	25	鋼トラス橋
10.03	MAUNDO BRIDGE Km. 1386 + 957 Pulang Lupa-Patrocinio Road Sta. Josefa, Agusan del Sur	20	木 橋
10.04	STA. IRENE BRIDGE Km. 1282 + 110 Bayugan-Kalaitan-Tandag Road Sta. Irene, Agusan del Sur	20	丸太橋
10.05	MALUBOG BRIDGE Km. 185 + 760 Labuyo-Tangub-Silanga Road Barangay 4, Tangub City	25	木 橋
11.01	LAMBUNAO BRIDGE Km. 1267 + 027 Surigao Sur-Davao Coastal Road Lanuza, Surigao del Sur	40	鋼トラス仮橋
11.02	BALIBADON BRIDGE # 3 Km. 1296 + 814 Surigao Sur-Davao Coastal Road Balibadon, Cortes Surigao del Sur	36	木 橋
11.03	CALABANIT BRIDGE Km. 1716 + 083 Davao del Sur-South Cotabato Coastal Road Glan, South Cotabato	40	鋼トラス仮橋
11.04	MANAY BRIDGE Km. 1643 + 783 Davao Oriental-Surigao del Sur National Road Manay, Davao Oriental	45	同 上
11.05	CULAMAN I BRIDGE Km. 1650 + 758 Davao del Sur-South Cotabato Coastal Road (Malalag-Don Marcelino- Jose Abad Santos Section), Culaman Malita, Davao del Sur	72	同 上
12.01	PIKINIT BRIDGE Km. 136 + 936 Dobleston-Tukuran Road Caromatan, Lanao del Norte	20	同 上
12.02	DURUGAO BRIDGE Km. 216 + 498 Awang-Upi-Lebak Road Durugao, South Upi, Maguindanao	40	同 上

変更要請橋梁リスト

橋梁番号	橋 梁 名	橋 長(m)	現況の橋種
12.03	UPIAN BRIDGE Km. 239 + 002 Cotabato-Bukidnon Road Kimadzil, Carmen, North Cotabato	45	鋼トラス仮橋
12.04	DANGOLAAN BRIDGE Km. 133 + 983 Dobleston-Tukuran Road Caromatan, Lanao del Norte	25	木 橋
12.05	SAPAKAN BRIDGE Km. 211 + 530 Dulawan-Marbel Road Sapakan, Maguindanao	100	コンクリート仮橋 鋼トラス仮橋
	T O T A L ----------	2,413	

付属資料５

要請橋梁の調査データ

NAME OF BRIDGE : ELLET BRIDGE NO : 01.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 327 + 500	Gurel-Bokod-Kabayan-Buguias Road	Benguet	I
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	24.40 LM	Bailey	Fair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		486,989	Vegetables, Potato, Coffee, Beans and Edible Fruits	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	151	Cars, big bus and trucks	Business	10 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling to Mountainous		Sand, gravel and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
			Bad to Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at BOE in Trinidad, Bengued, RES, Banang, La Union	Construction Materials Available locally	The route will be along Baguio-Ambuclao-Nueva Vizcaya Road and connect with Gurel-Borod-Kabayan Road	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ;	No Data	

NAME OF BRIDGE : BIMMILOG BRIDGE NO : 01.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 376 + 658	Narvacan-Sulvec Port Road	Ilocos Sur	I
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	30 LM	Timber Trestle	Bad	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		508,367	Tobacco, Rice	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	133	Jeeps, Cars Trucks and Motorcycles	Business	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Clay, Sand	
	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 BOE, Vigan, Ilocos Sur RES, Bauang, La Union	Available at the locality and nearby towns	Along Manila North Road and connects with Narvacan Sulvec Port Road	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ;	No Data	

NAME OF BRIDGE : MALAYA BRIDGE NO : 01.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 376 + 570	Tagudin-Cervantes Road	Ilocos Sur	I
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	48.78 LM	Steel Truss	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		508,367	Tobacco, Rice	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	237	Cars, Jeepneys, Small Bus and Big Bus	Business Visit/Pleasure	5 tons
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
	Available at BOE Vigan, Ilocos Sur, RES, Bauang, La Union	Available at the locality and nearby towns	Along Manila North Road and connects with Tagudin-Cervantes	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ;	No data	

NAME OF BRIDGE : STA. CRUZ BRIDGE NO : 02.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 640 + 747	Dugo- San Vicente Rd.	Cagayan	II
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	90 LM	Timber	Dilapidated Temporary Bridge	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		842,586	Palay, Corn, Peanut, Veg. Fish and forest products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	281			
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Silty Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Maximum Flood Level = 100.20 M Ordinary Flood Level = 98.20 M High Tide Level = 97.70 M Low Tide Level = 96.50 M		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	3 @ 30 = 90 m	Continous steel girder	T type Abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON; Long span, flood area, cofferdam		

NAME OF BRIDGE : DUMADATA BRIDGE NO : 02.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 339 + 770	Cordon-Diffun Maddela-Aurora Road	Quirino	II
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	30 LM	Bailey	Fair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		108,719	Palay, Corn, Peanut, Coffee Livestock and Mineral Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	261			5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sandy Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 100.50 m OFL = 98.50 m OWL = 95.04 m		Bad PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	17 + 17 = 34 m	H-Beam	. T type abutment . Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ; Cofferdam		

NAME OF BRIDGE : BAAN BRIDGE #2 NO : 02.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 248 + 171	Nueva Vizcaya-Benguet Road	Nueva Vizcaya	II
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	39.634 LM	Bailey	Dilapidated	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		300.862	Palay, legumes root crops	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
				3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Clayey gravel with shoulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 281.0 m OWL = 216.0 m		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	23 + 23 = 46 m	H-Beam	. T type abutment . Wall type pier	R.C. Pile
EVALUATION	PHASE 1,2	REASON ;	No Difficulty	

NAME OF BRIDGE : DIORA BRIDGE NO : 02.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 634 + 195	Dugo-San Vicente Road	Cagayan	II
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	48 LM	Timber	Dilapidated temporary bridge	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		842,588	Palay, Corn, Peanut, Veg. Forest Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	281			5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Gravel and Sand	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 96.65 m OFL = 95.70 m HTL = 95.133 m LTL = 93.923 m		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	25 + 25 = 50 m	H-Beam	. T type abutment . Wall type pier	R.C. Pile
EVALUATION	PHASE 1,2	REASON; No difficulty in construction		

NAME OF BRIDGE : DIDUYON BRIDGE NO : 02.05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 373 + 060	Cordon-Diffun Maddela-Aurora Road	Quirino	II
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	30 LM	Timber	Washed - Out	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		108.719	Palay, Corn, Rootcrops, Live-stock and Mineral Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	261			
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Clayey gravel with rocks boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 97.0 m OFL = 96.50 m OWL = 94.265 m		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Bridge type cannot be proposed because of flood area			
EVALUATION	PHASE 1,2	REASON; Bridge length cannot be decided		

NAME OF BRIDGE : SEGUM BRIDGE NO : 03.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 153 + 798	Jct. Tablang-Gabaldon-Quezon Bdry. Road	Nueva Ecija	III
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	15.6 LM	Timber	Destroyed	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		1,069,409 (1980)	Agricultural and Marine Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Bus/Jeepneys	Business	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Clay, gravel, boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Good Drainage Conditions		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at DPWH Eng'g. District of Nueva Ecija	Available at DPWH Eng'g. District of Nueva Ecija	Manila North Road	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Topographic survey does not show the alignment of existing road and river			
EVALUATION	PHASE 1,2	REASON ;		

NAME OF BRIDGE: CALABASA BRIDGE NO: 03.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 157 + 269	Jct. Tablang-Gabaldon-Quezon Bdry. Road	Nueva Ecija	III
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	11.10 LM	Timber	Dilapidated Condtion	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		1,069,409 (1980)	Agricultural, Forestry and Marine Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Bus and Jeepneys	Business	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Gravel with Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Good Drainage Condition		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at DPWH Eng'g. District of Nueva Ecija	Available at DPWH Eng'g. District of Nueva Ecija	Manila North Road	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Topographic survey does not show the alignment of existing road and river			
EVALUATION	PHASE 1,2	REASON;		

NAME OF BRIDGE : MALINAO BRIDGE NO : 03.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 166 + 631	Jct. Tablang-Gabaldon, Quezon Bdry. Road	Nueva Ecija	III
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	15 LM	Timber	Destroyed	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		1,069,409 (1980)	Agricultural, Forestry and Marine Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Bus and Jeepneys	Business	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Gravel with clay boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Good Drainage Condition		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at DPWH Eng'g. District of Nueva Ecija	Available at DPWH Eng'g. District of Nueva Ecija	North Manila Road	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Topographic survey does not show the alignment of existing road and river			
EVALUATION	PHASE 1,2	REASON;		

NAME OF BRIDGE : ASAN BRIDGE NO : 03.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 168 + 295	Jct. Tablang Gabaldon-Quezon Bdry. Road	Nueva Ecija	III
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	36 LM	Timber	Destroyed	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		1,069,409 (1980)	Agricultural, Forestry and Marine Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Bus and Jeepneys	Business	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Gravel with Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Good Drainage Conditions		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at DPWH Eng'g. District of Nueva Ecija	Available at DPWH Eng'g. District of Nueva Ecija	Manila North Road	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Topographic survey does not show the alignment of existing road and river			
EVALUATION	PHASE 1,2	REASON;		

NAME OF BRIDGE : BINAMBANG BRIDGE NO : 04.01a

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 107 + 540	Balayan-Balibago Calatagan Road	Batangas	IV-A
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	80 LM	Spillway	Bad	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Agricultural Products	
	TRAFFIC VOLUME(ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Trucks - Bus Jeepneys, Cars	Business, School Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat to Rolling		Sandy, Silty Gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 44.90 m OWL = 41.40 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	Balayan-Lian National Road	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	3@ 25 = 75 m	H-Beam Girder	. T type abutment . Wall type pier	Spread Footing
EVALUATION	PHASE 1,2	REASON; Flood water level shall be studied		

NAME OF BRIDGE : MANGO BRIDGE NO : 04.02a

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 26 + 700	San Mateo-Rodriguez Montalbon Road	Rizal	IV-A
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	40 LM	RCDG	Defective Superstructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Construction Material	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Trucks, buses, jeeps, cars, tricycles	Business, Sch. Visit/Pleasure	15 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Gravel with Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
			Good 6.7 m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally		Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON; Widening only		

NAME OF BRIDGE : LEVISTE II BRIDGE NO : 04.03a

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 92 + 430	Talisay-Laurel-Agoncillo Road	Batangas	IV-A
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	40	Timber	Washed - Out	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Agricultural Products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	520	Light and heavy vehicles	Business, School, Visit, Pleasure	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling to Mountainous		Sandy Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 16.86 m OFL = 13.40 m		Bad to Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally		Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	20+20+20+20 = 80m	. H-Beam	. T type abutment . Wall type pier	Spread
EVALUATION	PHASE 1,2	REASON ; Maximum high flood water level shall be checked		

NAME OF BRIDGE : LUMANG BAYAN BRIDGE NO : 04.04b

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 34 + 954	Mamburao-North Puerto Galera Road	Occidental Mindoro	IV-B
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	60 LM	Bailey	Under repair for light vehicle, reconstruction of bridge for heavy equip and cargo trucks to pass thru.	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		12,917 as of May 1980	Rice, Corn, Fish, Fruits and Vegetable, Coconut and livestock	Opening of Matabang port and the Abra de Ilog North Puerto Galera Road
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	208	Jeepns, Trucks and Tricycles	Business, Visit Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Sand Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 21.17 m OWL = 17.02 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality	From Manila of Batangas port of Matabang port, Abra de Ilog	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	3@30 = 90 m	Continous steel girder	. T type abutment . Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON; Flood Area		

NAME OF BRIDGE : OLANGOAN BRIDGE NO : 04.05b

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 74 + 524	Puerto Princesa North Road	Palawan	IV-B
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	36.50 LM	Bailey	Under repair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		88.614	Oil and Agri-cultural products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Bus, jeeps trucks and cars	Transporting people and agricultural products	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Sand and Clay	
	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 in the locality	Available in the locality	Puerto Princesa to Dangoan Bridge	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 ;	Cofferdam	

NAME OF BRIDGE : BONGABON BRIDGE NO : 04.06b

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 122 + 720	Calapan South Bulalacao-San Jose Road	Oriental Mindoro	IVB
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	360.35 LM	Bailey with permanent substructure	Baileys panels out of alignment and is critical conditions, needs immediate reconstruction	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		446,938 As of 1980	Rice, Corn, Copra, Fruits, Vegetables	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	153 as of May 1986	Jeeps, Bus and Trucks	Business, Visit/Pleasure	8 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Silty Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 128.23 m OWL = 124.83 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality	From Manila to Caloocan Wharf or from Manila to Dalapian Beach to Job-site	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Depends on stability of substructure			
EVALUATION	PHASE 1,2	REASON; Permanent substructure		

NAME OF BRIDGE : DIPULAO BRIDGE NO : 04.07b

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 2 + 706	Coron-Busuanga National Road	Palawan	IVB
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	24.92 LM	Bailey	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		16,032 (May 1980)	Rice, Corn, Fish, Cattle and Rattan	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	50	Jeeps, Bus and Trucks	Business, Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Sand, Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFE = 17.65 m OWL = 15.20 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Not available in the locality	Available in the locality	From Manila to Coron wharf to jobsite	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	25 m	H-Beam (Skew)	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE : COGON BRIDGE NO : 04.08b

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 64 + 974	Odiongan-Looc Road	Romblon	IVB
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	18.9 LM	Bailey	Bailey component needs replacement	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		218,624	Rice, Corn, Copra and fish	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	60	Jeepney, bus, car, van, pick-up, dump truck	transporting people and agri-cultural products	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Clayey gravel with rocks	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 18.50 m OWL = 16.00 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality	From Manila to Odiongan Wharf to jobsite (Looc Road)	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	23 m	H-beam	T type abutment	Spread Footing
EVALUATION	PHASE 1,2	REASON;	No difficulty	

NAME OF BRIDGE : DAGUIT BRIDGE NO. 1 NO : 05.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 312 + 848	Manila South Rd.	Camarines Norte	V
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	29.2 LM	Steel I-Beam	Good	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		1,200 household	Copra	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	1561	Cars, bus, trucks, jeep-neys, tricycles	Business, school visit/pleasure	20 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Clay, gravel and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	Dry Season = March to October Wet Season = November to Feb. MFL = 50.00 m OWL = 46.10 OFL = 49.50 m		Good 6.7m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Crane, bull-dozer, concrete mixer	Reinforcing steel, cement, form lumber and course and fine aggregates	Manila South Road	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ; Urgent replacement is not recommended		

NAME OF BRIDGE : PATITINAN BRIDGE NO : 05.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 499 + 200	Sagnay-Tiwi-Albay Bdry. Rd.	Camarines Sur	V
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	15.60 LM	Bailey	Dilapidated Superstructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		100 Household	Copra	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	624	Bus, jeeps, trucks, cars	School, business visit/pleasure	7 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Gravel, rocks and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 73.40 m OFL = 71.00 m OWL = 69.40 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Crane, bull-dozer concrete mixer	Reinforcing steel, cements, form, lumber and course and fine aggregates	Road from junction msr. Anayan to Tigaon-Concrete Road from junction Tigaon to Patitinan-All weather (gravel)	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	20 m	H-beam	T type abutment	Spread Footing
EVALUATION	PHASE 1,2	REASON ;	No difficulty	

NAME OF BRIDGE : NANGARASAN I BRIDGE NO : 05.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 31 + 145	Jct. Tawad-Balud Road	Masbate	V
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	45 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
	2 @ 35 = 70 m	Continous Steel Girder	. T type abutment . Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON; Bridge length shall be reviewed		

NAME OF BRIDGE : TALUS BRIDGE NO : 06.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 41 + 150	Along Murcia-Don Salvador Benedicto-Calatrava Rd.	Negros Occidental	VI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	40.58 LM	Bailey	Bad to Fair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		17.300	Corn, Pineapple Lumber and Sugar Canes	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	2420 (1985 AADT)	Cars, Jeeps, Bus and Trucks	Business	10 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Silty, gravel with boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	OWL = 173.50 m HFL = 178.50 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		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ; Construction of bridge is only recommended		

NAME OF BRIDGE : CATA-AN BRIDGE NO : 06.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 65 + 930	Tiolas-Sinogbuhan Road	Iloilo	VI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	45.1 m	Bailey	Fair to Good	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Marine and Agricultural Product	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	390	Buses, Trucks, Cars, Jeepneys and Tricycles	Business, Visit/Pleasure	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling to Mountainous		Sand, clay, gravel and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HFL = 10.16 LFL = 7.90		Fair to Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally		Good Road and No sharp curve along the route
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 : IYANG BRIDGE NO : 06.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 109 + 962	Concepcion-San Dionisio National Road	Iloilo	VI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	25 LM	Timber	Dilapidated	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		1,759,428	Rice, Corn, Copra and Fish	Dev. of Fishing Industry and Irrigation
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	526	Cars/Vans, Jeepneys, Buses, Trucks, others	Business, School, Visit/ Pleasure	3.5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Gravel and Sandy clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HWL = 1.720 m LWL = 1.088 m		Fair to Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally	Iloilo City - Iloilo East Coast Road - Capiz Bdry.	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	28 m	Steel Plate Girder	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON ; Swampy area, cofferdam		

NAME OF BRIDGE : GUINTAS BRIDGE NO : 06.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 106 + 500	Tapaz-Jamindan Road	Capiz	VI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	20 LM	Bailey	Destroyed	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		29,934	Agricultural	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	60 VPD	Light Weight Vehicles	Business-Visit/Pleasure	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Clay with boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HFL = 20.92 LFL = 15.08		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available Locally	Available Locally	Roxas City-Ivisan-Sigman Guintas	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	21 + 21 = 42 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE: TUMALALUD BRIDGE NO: 06.05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 104 + 400	JCT. National Rd. San Rafael Road	Capiz	VI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	30 LM	Bailey with Permanent Sub-structure	Superstructure - Fair, All sub-structure are existing and in good condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		33,986	Agricultural	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	92 VPD	Light Weight Vehicles	Business Visit/ Pleasure Military	7 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand and clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HFL = 19.705 LFL = 11.757		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally	Roxas City-Ivisan-Cuartero	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	Permanent substructure			
EVALUATION	PHASE 1,2	REASON; Urgent replacement is not recommended		

NAME OF BRIDGE : BANBAN BRIDGE NO : 07.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 61 + 100	Toledo-Pinamungahan National Road	Cebu	VII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	25.38 m	Timber	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Coconut, Rice, Corn	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	97 (AADT)	Jeeps, Cars, Bus and Trucks	Transporting Farm Products	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sandy clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	LWL = 2.652 m HWL = 4.100 m OWL = 1.520 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	30 m	Steel plate girder	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON; Flood area		

NAME OF BRIDGE : CAMPACAS BRIDGE NO : 07.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 97 + 600	Dalaguete-Manta longon Road	Cebu	VII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	20.83 m	Bailey	Fair Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Coconut, Corn	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	34	Cars, Trucks and Jeeps	Business, Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Clayey Gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	LWL = 397.80 m HWL = 400.78 m OWL = 397.80 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
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 : CAMPANGA BRIDGE NO : 07.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 63 + 500	Carcar-Barili-Mantayupan Rd.	Cebu	VII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	9.21 m	Bailey	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Coconut, Corn	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	89 (AADT)			3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Silty Gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HWL = 48.56 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	12 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE : CAMACHILES BRIDGE NO : 07.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 49 + 300	Toledo-Tabuelan San Remigio Rd.	Talavera, Toledo City	VII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	35 LM	Timber	Fair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		5,438	Copra, Vegetables, Fruits, Corn, Fish, Silica	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	267	Cars, jeeps, pick-up, vans, bus, trucks, tricycles	Business, visit/ /pleasure, school	10 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand, gravel and boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HWL = 2.0 m OWL = 0.0 m CWE = 1.0 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality	Cebu City wharf to Naga-Uling Toledo City Rd.	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	18 + 18 = 36 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON; No difficulty		

NAME OF BRIDGE : LAGNASON BRIDGE NO : 07.05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 113 + 200	Lagunde, Oslob	Cebu	VII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	33.78 m	Timber	Fair to Bad	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
			Coconut, Vegetables	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	50 (AADT)			5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sandy clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 3.64 m OFL = 2.16 m		Good 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	19 + 19 = 38 m	H-Beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE : PORAY BRIDGE NO : 08.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1043 + 798	Giporlos-Balangiga	Eastern Samar	VIII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	18 LM	Timber Trestle	Bad	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
	45	360,000	Coconuts and root crops	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	96	light	Business, Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat to rolling		Sandy clay with gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 8.49 m HWL = 7.43 m LWL = 6.52 m		Bad to Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in rental	Available in the locality	Tacloban City-Wright-Taft-Borongan-Buena vista, Giporlos, Balangiga	Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	22 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON; No difficulty		

NAME OF BRIDGE : IBA BRIDGE NO : 08.02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 914 + 800	Basey-Magallanes Road	Northern Samar	VIII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	21.65 LM	Bailey	Unpassable due to dilapidated steel members	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		36,760.00	Rice, Copra and marine products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sandy clay with gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 9.74 m OWL = 6.40 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at Res, Pawing, Polo, Leyte	Aggregates at Babatngon, Leyte or Tacloban City Lumber-within the locality cement-Tacloban City	Tacloban City-Basey - Magallanes	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
EVALUATION	PHASE 1,2	REASON ;		

NAME OF BRIDGE : HABAY BRIDGE NO : 08.03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 2075 + 448	Liloan-San Francisco-Pintuyan Road	Southern Leyte	VIII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	61.45 LM	Bailey	Good	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		61034	Rice, copra, corn, banana, marine products	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Jeepney, buses, motorcycles and trucks	Business, Visit/Pleasure	7 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Gravel with shoulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	EFL = 16.830 m HFL = 16.000 m		Bad to Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at Pawing, Palo Leyte	Aggregate bridge site lumber within the locality cement-Maasin, Southern Leyte	Tacloban-Mahaplag Sogod-Liloan or Maasin-Sogod-Liloan	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	22+22+22 = 66m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ;	Flood area	

NAME OF BRIDGE : TALISAYAN RIVER CROSSING NO : 08.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 66 + 800	Lapaz-Javier Bito Road	Leyte	VIII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	51.4 LM from bank to bank	River Crossing		
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		98,005	Rice, Banana Copra, Cassava Corn, Camote	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Jeepneys, Bus Motorcyles, Trucks	Business	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand clay with gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HFL = 9.56 m OWL = 6.92 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at Res, Pawing Palo, Leyte	Available in the locality	Tacloban-Palo Tanguan-Taloso Dulag-Mayorao McArthur-Bito Javier	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	27 + 27 = 54 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ; Flood area		

NAME OF BRIDGE : PINUKAWAN BRIDGE NO : 08-05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 68 + 280	Lapaz-Javier Bito Road	Leyte	VIII
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	13.70 LM	Timber Trestle	Bad	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		98,085	Rice, Corn Copra, Banana Cassava, Camote	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Jeepney, Bus Motorcyles, Trucks	Business Visit/Pleasure	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand, clay and gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 9.44 m OWL = 7.80 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available at Res, Pawing, Palo, Leyte	Available in the locality	Tacloban City Palo-Tanuan Talosa-Dulag-Mayoga-McArthur Bito-Javier	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	16 m	H-Beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON ;	No difficulty	

NAME OF BRIDGE : BATUNGAL BRIDGE NO : 09-01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 26 + 440	Isabela-Maluso Road	Basilan	IX
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	15.40 m	Timber	Bad - deteriorated substructure and superstructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		229,951	Copra, Lumber, Rubber	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	340	Cars Jeepneys Trucks	Business, school visit/pleasure	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat to rolling		Sandy clay with gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 4.30 m OFL = 3.60 m HWL = 2.80 m OWL = 2.10 m		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available locally	Available locally	Port Holland Maluso-Batungal	Bad to Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	23 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON : No difficulty		

NAME OF BRIDGE : MANGOP BRIDGE NO : 09-02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 439 + 740	Sindangan Liloy Road	Zamboanga del Norte	IX
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	45 LM	Timber	Bad - deteriorated substructure and superstructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		660,465	Copra, Corn; Rice	
	TRAFFIC VOLUME(ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	590	Cars, Jeepneys, Minibus, Bigbus, Trucks	Business School Visit/Pleasure	3 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Coastal Raod - Flat to Mountainous		Gravel and Sand	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 2.104 m OFL = 0.81 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	Dipolog City Port to Sindangan-Liloy Road	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	17 + 17 = 34 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE : CANAWAN BRIDGE NO : 09-03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 44 + 740	Sindangan-Liloy Road	Zamboanga Del Norte	IX
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	35.5 LM	Bailey	Bad - deteriorated substructure and superstructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		660,645	Copra, Corn, Rice	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	590	Cars, Jeepneys, Mini bus, Big bus, Trucks	Business, School Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat to Rolling		Clayey gravel with boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 38.06 m OFL = 37.0 m OWL = 35.8 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	Dipolog City Port to Sindangan-Liloy Road	Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	19 + 19 = 38 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ;	No difficulty	

NAME OF BRIDGE : PIANGON BRIDGE NO : 09-04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	km. 337 + 380	Dipolog-Sindangan Nat'l Road	Zamboanga Del Norte	IX
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	25 LM	Bailey	Bad - deteriorated substructure	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		660,465	Rice, Corn, Copra	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	667	Cars, Jeepneys, Minibus, Bigbus, Trucks	Business, School Visit/Pleasure	7 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 8.50 m OWL = 5.40 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the area	Availabale in the area	Dipolog City Port to Sindangan Road	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 : PATUNAN BRIDGE NO : 09-05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 375 + 090	Dipolog-Sindangan Road	Zamboanga Del Norte	IX
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	25 LM	Bailey	Fair	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		660,465	Copra, Corn, Rice	
	TRAFFIC VOLUME(ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	667	Cars, Jeepneys Minibus, Bigbus, Trucks	Business, School Visit/Pleasure	7 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 9.0 m OWL = 8.4 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	Dipolog City Port to Sindangan Road	Fair to Good
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	25 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON : Permanent and timber trestle		

NAME OF BRIDGE : HAYANGABON BRIDGE NO : 10-01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1202 + 586	Surigao-Davao Coastal Road	Surigao del Norte	X
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	40 LM	Timber	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		442,718	Rice, Coconuts, Fish, Mining	Mining Development
	TRAFFIC VOLUME(ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	55	Cars, Jeepneys, Minibus, Bigbus, Trucks	Business, School Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Flat		Sand and gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 18.4 m OWL = 17.32 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	21 + 21 = 42 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON ; Cofferdam		

NAME OF BRIDGE : MARADUGAO BRIDGE NO : 10-02

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1608 + 942	Maradugo-Camp Kibarutan Road	Bukidnon	X
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	21 LM	Bailey	Dilapidated condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		803,437	Rice, Corn	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	1,319	Cars, Jeepneys, Trucks	Business, Visit/Pleasure	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Clayey gravel with boulders	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 479.51 m OFL = 476.19 m		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	25 m	H-beam	T type abutment	Spread footing
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE : MAUNDO BRIDGE NO : 10-03

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1386 + 957	Pulang Lupa-Patrocinio Road	Agusan Del Sur	X
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	18 LM	Bailey	Dilapidated condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		447,017		
	TRAFFIC VOLUME(ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Trucks, Jeepneys	Business	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Clayey gravel with rocks	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	HFL = 49.00 OWL = 45.24		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	22 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1, 2	REASON ; No difficulty		

NAME OF BRIDGE : STA. IRENE BRIDGE NO : 10.04

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1282 + 110	Bayugan-Kalaitan Tandag Road	Agusan del Sur	X
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	20 LM	Log Bridge	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		477,017		
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
		Logging Trucks, Jeepneys	Business, Visit/Pleasure	
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Mountainous		Silty Clay	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 49.0 m OFL = 46.0 m OWL = 44.15 m		Bad 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		Fair
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	22 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON ; No difficulty		

NAME OF BRIDGE : MALUBOG BRIDGE NO : 10.05

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 185 + 760	Labuyo-Tangub-Silanga Road	Cagayan de Oro	X
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	25 LM	Timber	Dilapidated Condition	
SOCIO-ECONOMIC AND TRAFFIC INFORMATION	POPULATION AFFECTED		MAIN PRODUCT	DEVELOPMENT PLAN
		48,777	Coconuts	
	TRAFFIC VOLUME (ADT)	TRAFFIC COMPOSITION	TRIP PURPOSE	DESIGN TRAFFIC LOAD
	362	Car, Trucks, Minibus, Bigbus	Business, Visit/pleasure, School	5 tons
ENGINEERING INFORMATION	TOPOGRAPHIC CONDITION		GEOLOGICAL CONDITION	
	Rolling		Clayey gravel	
	RIVER/HYDROLOGICAL CONDITION		CONDITION OF ACCESS ROAD	
	MFL = 6.05 Average Water Level 2.17 m (Dry Season 2.41 m (Wet Season)		Fair 6m PROPOSED WIDTH FOR IMPROVEMENT	
CONSTRUCTION INFORMATION	AVAILABILITY		TRANSPORTATION OF STEEL GIRDER	
	ERECTION EQUIPMENT	LOCAL MATERIAL	ROUTE ROAD	CONDITION
	Available in the locality	Available in the locality		
PROPOSED BRIDGE TYPE	TOTAL LENGTH	SUPERSTRUCTURE	SUBSTRUCTURE	FOUNDATION
	23 m	H-beam	T type abutment	Pile
EVALUATION	PHASE 1,2	REASON; No difficulty		

NAME OF BRIDGE : LAMBUNAO BRIDGE NO : 11.01

LOCATION	STATION	ROUTE	PROVINCE	REGION
	Km. 1267 + 027	Surigao del Sur Davao Coastal Road	Surigao del Sur	XI
EXISTING CONDITION	LENGTH	TYPE	PRESENT CONDITION	
	40 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
	19 + 19 = 38 m	H-beam	T type abutment Wall type pier	Pile
EVALUATION	PHASE 1,2	REASON; No difficulty		