

MINISTRY OF PUBLIC WORKS & HIGHWAYS
BRBDP ROAD COMPONENT
PROJECT MANAGEMENT OFFICE

MONTHLY PROGRESS REPORT
September, 1981

DCCD ENGINEERING CORPORATION

Prepared By:

Submitted By:


GAUDENCIO L. BENITO
Resident Engineer


RICARDO S. BASA
Project Manager

BEST AVAILABLE COPY

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MONTHLY PROGRESS REPORT
September, 1981

1 GENERAL

This report covers the activities for the CONSTRUCTION SUPERVISION of the BICOL SECONDARY and FEEDER ROADS PROJECT, Package III. This Package is composed of Subproject Nos. 7, 8, 12 and 13.

Subproject No. 7 - The project was completed and turned over to the agencies concerned on August 19, 1981.

Subproject No. 8 - Change Order No. 2 covering extra or emergency work, change in scope and extension of contract time by 61 days has been submitted for approval to the PMO. The Contractor is slightly behind progress based on the revised schedule.

Subproject No. 12 - The Contractor has made satisfactory progress during the month with the favorable weather condition prevailing during the period. The Contractor has made arrangement with deliveries of asphalt materials at site from supplier in Manila.

Subproject No. 13 - Deficiency in equipment and poor coordination of work activities resulted in very low pro-

gress during the month. The Consultant has warned the Contractor to correct the deficiencies in order to increase progress. Change Order No. 1 covering repair and additional works on damages caused by typhoons Daling and Elang is being prepared for submission by October.

2 PROGRESS

Subproject No. 8 (Topaz-Palsong-Bula)

The accomplishment for the month is 2.62% making a total completion to date of 81.13% based on the Revised Progress Schedule. The Contractor is behind schedule due to the deficiency in equipment. The Consultant has repeatedly advised the Contractor regarding this problem.

A. Secondary Road

Roadwork - Progress is slightly behind schedule.

Subbase for shoulder is lagging too far behind the completed base course and asphalted sections. As mentioned in the July Progress Report, the remaining earthwork is at Bicol River Bridge Approach which is scheduled to be completed when the bridge abutments are poured.

Base Course - There was a decrease in the production of crushed aggregates during the month due to repairs made in the screen mechanism of the crusher. Subsequent washing of the boulders prior to crushing was done to produce better quality aggregates. A total of 617 lineal meters of Item 200 were accomplished during the period. The remaining section is the 1.1 km. stretch after Bicol River Bridge, bridge first approach and Panoypoyan Intersection.

Surface Courses and Pavement - Again the DBST paving suffered some delays due to the breakdown of one asphalt kettle and occurrence of rainy days after mid month. At the end of the month, the following sections were asphalted. Km. 3 / 800 to Km. 4 / 700 left lane and Km. 3 / 800 to Km. 4 / 190 right lane, placing the total accomplishment to date at 4.44 kms. Remaining section to be completed is 6.58 kms.

Structures (Bridges) - Additional 19 meters length of superstructure and second approach abutment were poured during the month. A total of 47 meters of the

86 meters length Bicol River Bridge has been completed to date. Partial removal of falseworks and formworks at completed spans is underway. Rebars and formworks placement is also ongoing at superstructures spans 1, 2 and 3. The Contractor has rescheduled the completion of the bridge to November.

Structures (Drainage) - Six (6) pieces of 0.61mØ pipe culverts were installed at Feeder Road B intersection to meet limits of widening. Riprapping works continue at Km. 8 / 480 to Km. 8 / 400 and at Km. 8 / 400 to Km. 8 / 440.

B. Feeder Roads

Feeder Roads A and B - completed.

Feeder Road C

Roadwork - Hauling, spreading and compaction of aggregate subbase on completed subgrade continue. Segment completed during the month was from Km. 2 / 000 to Km. 2 / 900. The subgrade at the end section will be reprepared after damage due to the saturated condition caused by typhoon Rubing.

Structure (Drainage) - Hauling of 0.61mØ R.C. pipes to Km. 2 / 000. Excavation for pipes installation in the area was postponed due to mechanical problem in the backhoe.

Subproject No. 12 (Iriga-Salvacion-Bato)

The accomplishment for the month is 11.31% making a total completion to date of 26.98%. The Contractor positive progress increased further from 9.14% last month to 11.31% this month due to favorable weather and complete fleet of earthwork equipment.

A. Secondary Road

Roadwork - Hauling, spreading and compaction works on section deficient in fill materials along the stretch of the road continue. The Contractor has experienced difficulty in working on super-elevated sections due to repeated disappearance of construction stakes and other reference points placed on the sections. Completed during the month were the fill sections at the two box culvert structures recently poured and approximately 1 km. reparation of existing subbase. The Consultant has also advised the Contractor regarding revisions in vertical and horizontal alignments

from Km. 0 / 000 to Km. 0 / 500 due to the existence of water utility lines crossing the roadway and right of way problems .

Base Course - Due to unreliable source of power in the area the Contractor has procured the standby engines required in switching the operation of the crusher from electrically to mechanically operated crusher. Meanwhile hauling and stockpiling of stones for crushing continued at the crusher yard. Item 200 placement is schedule in October.

Surface Courses and Pavement - The Contractor is now making arrangement with supplier in Manila regarding deliveries of asphalt materials at site. DBST paving is scheduled to start in December.

Structures (Drainage) - Progress is ahead of schedule. The two (2) box culvert structures have been completed and backfilled. Productions and installations of R.C. Pipes are progressing satisfactorily. Pipe culverts installed during the period are as follows:

- Culvert No. 6 - 10 pcs. - 1.22 mØ
- Culvert No. 8 - 14 pcs. - 1.07 mØ

Culvert No. 13 - 12 pcs. - 1.22 mØ
Culvert No. 14 - 13 pcs. - 1.07 mØ
Culvert No. 15 - 20 pcs. - 1.07 mØ
Culvert No. 28 - 10 pcs. - 0.61 mØ
Culvert No. 30 - 6 pcs. - 0.61 mØ
Culvert No. 32 - 13 pcs. - 0.91 mØ

Feeder Road A

The remaining 200 M. stretch at the end section is now covered with Item 108 materials. Reshaping and compaction works were done at some sections to maintain cross-fall and correct loose subbase.

Drainage pipe culverts installed and backfilled in the section are as follows:

Culvert No. 1 - 10 pcs. - 0.61 mØ
Culvert No. 4 - 7 pcs. - 0.91 mØ
Culvert No. 5 - 10 pcs. - 0.61 mØ

Feeder Road B

This section is likewise substantially complete. The sections deficient in width will be completed after the crops planted in the area are harvested this coming November.

There were no drainage pipes installed in the section during the period.

Feeder Road C

Placement of Item 107 on completed subgrade from Km. 1 / 000 to Km. 3 / 000 (end section) completed. Subsequent hauling, stockpiling and spreading of subbase materials is underway and progressing satisfactorily.

There were no drainage pipes installed in the section during the period.

Subproject No. 13 (Polangui-Lidong-Buhi)

The accomplishment for the month is 1.13% against scheduled progress of 17.16%. The Contractor is 16.03% behind schedule due to deficiency of equipment and poor coordination among personnel regarding work activities. The Consultant has repeatedly advised the Contractor regarding these deficiencies.

A. Secondary Road

Resurvey of horizontal alignment was completed. The survey crew is now establishing construction stakes for vertical control at every 20 meters station starting from Km. 1 / 820. Stockpiling of subbase and

materials at Km. 4 / 000 is underway. Roadway and drainage excavation at Lallo Bridge first approach is also in progress.

Base Course - Progress is 7% behind schedule. A mobile 20 TPD crusher was set up at Km. 2 / 000 during the month. Sections deficient in crushed items is now being supplied by this unit, however, base reparation is slow due to lack of proper equipment. To achieve progress, the Consultant has advised the Contractor to put up a fleet of grader, compactor and water truck.

Surface Courses and Pavement - Two (2) asphalt kettle arrived from Manila. The Contractor is looking for suppliers of aggregates in the area for DBST so as to start the paving works. This item is already 9% behind schedule.

Structures - Excavation of pier footing at Lallo Bridge using a 3 ton capacity chain block for removing boulders, one water pump for dewatering and manpower for removing loose debris is ongoing. The Contractor has started excavation two weeks ago and progress is

indeed very slow. To speed up the operation the Consultant reiterated the need of appropriate equipment as listed in the Tender Documents. Such equipment as crane or backhoe, jackhammer and compressor and at least two dewatering pumps is required.

Feeder Road E

Structure - Excavation works at the two (2) box culverts location at Km. 0 / 875.50 and Km. 2 / 068 is underway.

Feeder Road F

Structure - Preparation for pouring of wall slab and wingwall of box culvert structure at Km. 2 / 168 is underway.

3 MISCELLANEOUS

During the month of September, 1981 six (6) personnel from the Administrative Department completed their assignments, thus reducing the Consultant's Staff under BRBDP Project to 23 personnel.

CONTRACTOR: V.P. EUSEBIO CONSTRUCTION, INC.

BIDDING DATE: NOVEMBER 11, 1977

OFFICIAL STARTING DATE: SEPTEMBER 18, 1978

ORIGINAL COMPLETION DATE: MARCH 10, 1980

100% COMPLETION DATE: JUNE 28, 1981

BICOL SECONDARY AND FEEDER ROADS PACKAGE III

CONTRACT NO. I

STO. DOMINGO-BULA-OMBAO (SUB-PROJECT 7)

PROGRESS CHART

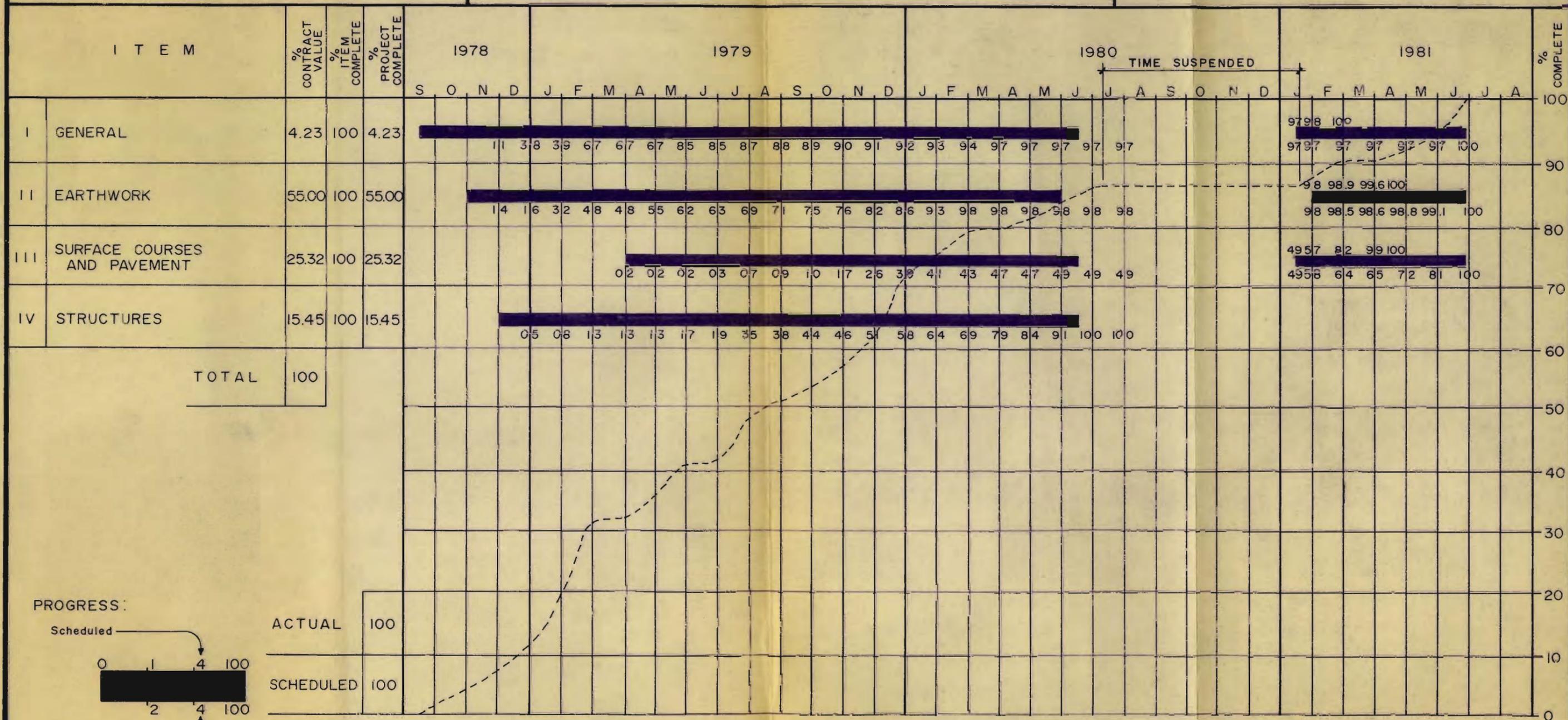
PROGRESS OF WORK

PREPARED BY: GAUDENCIO L. BENITO, R.E.

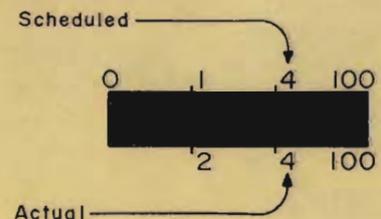
NET CONTRACT BID AMOUNT: ₱ 11,488,673.90

APPROVED REVISED CONT. AMOUNT: ₱ 11,684,096.56

FINAL COST: — — —



PROGRESS:



ACTUAL 100
SCHEDULED 100

COMPLETION:

LEGEND:

----- ACTUAL

BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE III

Subproject No. 8 (Topaz-Palsong-Bula)

CONTRACTOR'S STAFF
CAPITOL INDUSTRIAL CONSTRUCTION GROUPS, INC.
As of September 30, 1981

| | | |
|------------------------------|-----------|------------|
| 1. Project Manager | 1 | |
| 2. Superintendent/Staff | 2 | |
| 3. Field Supervisors | 8 | |
| 4. Surveyor Aides | 3 | |
| 5. Control/Logistics | 2 | |
| 6. Administration/Accounting | 19 | |
| 7. Timekeeper | 2 | |
| 8. Skilled Laborer | 60 | |
| 9. Unskilled L | <u>84</u> | <u>181</u> |

T O T A L 181

BICOL RIVER BASIN DEVELOPMENT PROGRAMME
PROGRAM OFFICE
San Jose, Pili, Camarines Sur

SUMMARY OF MANILA-BASED PERSONNEL AND LOCAL
SUB-CONTRACTORS

As of September 30, 1981

| PERSONNEL | TECHNICAL/ ENGINEERING | SKILLED | UNSKILLED | ADMINISTRATIVE | TOTAL |
|---|---------------------------|-----------|-----------|----------------|------------|
| From outside Bicol River Basin Area (Manila-Based, etc.) | 11 | 16 | - | 5 | 32 |
| Within BRBD Area (Local/Sub-Contractor etc.) | 3 | 44 | 84 | 18 | 149 |
| TOTAL | 14 | 60 | 84 | 23 | 181 |

Prepared by:

CAPITOL IND. CONST. GROUPS, INC.
Name of Contractor

QUIMZON D. LIAO
Name

Topaz-Palsong-Bula
Project/Contract Section

Project Manager
Designation

STATUS OF CONTRACTOR'S EQUIPMENT ON SITE
CAPITOL INDUSTRIAL CONSTRUCTION GROUPS, INC.
As of September 30, 1981

| <u>Equipment</u> | <u>Available on site</u> | <u>Required for the month</u> | <u>Deficiency</u> |
|----------------------------|------------------------------|-----------------------------------|-------------------|
| 1. Crushing Plant | 1 | 1 | - |
| 2. CAT Dozer D8 | 1 | 1 | - |
| 3. CAT Dozer D4 | 1 | 1 | - |
| 4. Pay Loader | 3 | 3 | - |
| 5. Road Grader | 3 | 3 | - |
| 6. Backhoe | 1 | 1 | - |
| 7. Vibratory Compactor | 1 | 1 | - |
| 8. Plate Compactor | 1 | 1 | - |
| 9. Road Roller | 2 | 2 | - |
| 10. Dump Truck 10 Wheelers | 6 | 6 | - |
| 11. Dump Truck 6 Wheelers | 3 | 3 | - |
| 12. Water Truck | 1 | 1 | - |
| 13. Asphalt Kettle | 2 | 2 | - |
| 14. 1-Bagger Mixer | 4 | 4 | - |
| 15. Concrete Vibrator | 2 | 2 | - |
| 16. Water Pump | 2 | 2 | - |
| 17. Welding Machine | 3 | 2 | 1 unit spare |
| 18. Generating Set | 1 | 1 | 1 |
| 19. Chain Saw | 1 | 1 | - |

STATUS OF ACCOMPLISHMENT FOR THE MONTH OF SEPTEMBER, 1981
Subproject No. 3 (Topas-Palsong-Bula Section)

| Item No. | Description | Contract Quantity | Accomplished Qty. to date | % Accomplishment | | Actual | Slippage | Remarks |
|----------|---|------------------------|---------------------------|------------------|----------|--------|----------|------------|
| | | | | This period | Schedule | | | |
| 4a | Provision of Survey Equipment | 14,000.00 | 14,000.00 | - | 100 | 100 | - | Completed |
| 4b | Provision of Lab. Equip. | 39,000.00 | 39,000.00 | - | 100 | 100 | - | Completed |
| 4c | Provision of 4-wheel drive diesel engine vehicle for RE (1unit) | 110,000.00 | 110,000.00 | - | 100 | 100 | - | Completed |
| 100 | Clearing & Grubbing | 63,000 m ² | 69,899 m ² | - | 100 | 100 | - | Completed |
| 105 | Roadway & Drainage Excavation | 108,531 m ³ | 77,182 m ³ | 3.71 | 85 | 98.41 | +12.41 | W/underrun |
| 105 (5) | Roadway & Drainage Excavation (Removal of Slides) | 1,433 m ³ | 1,433 m ³ | 100 | 100 | 100 | - | Completed |
| 105 SPL | Rock Excavation | 1,500 m ³ | 1,500 | - | 100 | 100 | - | Completed |
| 106 | Excavation for Structures (Drainage) | 3,370 m ³ | 3,148 m ³ | 4.75 | 95 | 93.41 | -1.59 | - |
| 107 | Borrow | 45,893 m ³ | 50,514 m ³ | 1.21 | 100 | 96.56 | -3.44 | W/overrun |
| 108 | Aggregate Subbase | 50,136 m ³ | 41,076 m ³ | 2.30 | 79 | 81.53 | +2.93 | - |
| 200 | Aggregate Base Course | 11,750 m ³ | 9,334 m ³ | 5.46 | 84 | 79.44 | -4.56 | - |
| 302 (1) | Bit. Prime Coat | 105 mt. | 37 mt. | 1.90 | 42 | 35.24 | -6.76 | - |

2/ Subproject No. 8 (Topaz-Palsong-Bula)

| | | | | | | | | |
|--------------|--------------------------------------|----------------------|-----------------------|-------|-----|-------|--------|-------------|
| 314 (1) | Asphalt for Bit Surface Treatment | 1,615 m ³ | 700 m ³ | 2.04 | 51 | 43.90 | -7.10 | - |
| 314 (3) | Asphalt Cement | 212 mt. | 79 mt. | 1.89 | 45 | 37.26 | -7.74 | - |
| 402 2.5 | Concrete Piles | 432 m | 431 m | - | 100 | 100 | - | Completed |
| 402b | Concrete Test Piles | 75 m | 75 m | - | 100 | 100 | - | Completed |
| 403 | Concrete Railing | 172 m | - | - | 28 | - | -28 | Not started |
| 405 3.1a | Class A Concrete | 998 m ³ | 829.40 m ³ | 8.72 | 84 | 83.11 | -0.89 | - |
| 405 4.21 | Falsework | 3,846 m ³ | 3,160 m ³ | 9.36 | 100 | 82.16 | -17.84 | - |
| 405 4.21a | Formwork for Bridges | 1,140 m ² | 796 m ² | 27.19 | 87 | 69.82 | -17.18 | - |
| 405 4.21b | Formwork for Culverts | 2,320 m ² | 2,201 m ² | - | 100 | 94.87 | -5.13 | - |
| 406 | Reinforcing Steel | 87,760 Kg. | 67,985 Kg. | 8.54 | 97 | 77.47 | -19.53 | - |
| 407 | Structural Steel | 380 Kg. | 225 Kg. | 42.37 | 58 | 59.21 | +1.21 | - |
| 413a | RCPC, 0.61 m. dia. | 512 m | 548 m | - | 100 | 100 | - | Completed |
| 413b | RCPC, 0.91 m. dia. | 145 m | 145 m | - | 100 | 100 | - | Completed |
| 413c | RCPC, 1.07 m. dia. | 207 m | 184 m | 4.83 | 100 | 100 | - | W/underrun |
| 413d | RCPC, 1/22 m. dia. | 63 m | 63 | - | 100 | 100 | - | Completed |
| 500a | Riprap Grouted | 1,117 m ³ | 659 m ³ | 3.85 | 62 | 59 | -3.00 | - |
| 500c | Filter Layer for Riprap | 250 m ³ | 23 m ³ | - | 09 | 9 | - | - |
| 506 | Wood Guardrail | 390 m | - | - | 0 | - | - | Not started |

ITEMIZED SUMMARY OF ACCOMPLISHMENT
Sub-Project No. 8 (Topaz-Palsong-Bula)

| | Description | Contract amount | Amount Accomplished to date | % Accomplishment | | REMARKS |
|-----|----------------------------|-----------------|-----------------------------|------------------|---------|-----------|
| | | | | This period | To Date | |
| I | GENERAL | 163,000.00 | 163,000.00 | - | 100 | Completed |
| II | EARTHWORK | | | | | |
| | Secondary Road | 4,148,220.86 | 3,874,415.36 | 1.50 | 93.40 | - |
| | Feeder Roads: | | | | | |
| | A | 579,505.00 | 579,505.00 | - | 100 | Completed |
| | B | 513,148.00 | 513,148.00 | - | 100 | Completed |
| | C | 2,197,678.68 | 1,346,145.78 | 5.89 | 61.25 | - |
| III | BASE COURSE | | | | | |
| | Secondary Road | 925,900.00 | 735,519.20 | 5.46 | 79.44 | - |
| IV | SURFACE COURSES & PAVEMENT | | | | | |
| | Secondary Road | 836,628.60 | 315,140.60 | 1.92 | 37.67 | - |
| V | STRUCTURES (Drainage) | | | | | |
| | Secondary Road | 427,789.30 | 386,847.59 | 4.14 | 90.43 | - |

| Feeder Roads: | | | | | | |
|---------------|------------------------------|--------------|------------|-------|-------|---------------------|
| | A | 37,229.60 | 37,229.60 | - | 100 | Completed |
| | B | 26,523.60 | 26,523.60 | - | 100 | Completed |
| | C | 58,920.00 | 58,920.00 | - | 100 | Completed |
| VI | STRUCTURES (Box Culverts) | | | | | |
| | Secondary Road: | | | | | |
| | RCBC # 1 | 202,420.00 | 201,836.00 | - | 100 | Complete/W/underrun |
| | RCBC # 2 | 139,224.50 | 139,224.50 | - | 100 | Completed |
| | RCBC # 3 | 91,433.50 | 91,433.50 | - | 100 | Completed |
| | RCBC # 4 | 136,638.00 | 136,638.00 | - | 100 | Completed |
| | RCBC # 5 | 91,644.00 | 91,644.00 | - | 100 | Completed |
| VII | STRUCTURES (Bridges) | | | | | |
| | Secondary Road | 1,090,246.20 | 785,849.80 | 11.59 | 72.08 | - |
| VIII | INCIDENTAL CONST. | | | | | |
| | Secondary Road | 22,035.00 | - | - | - | Not started |

PHYSICAL ACCOMPLISHMENT OF MAJOR WORK ITEMS

| I - <u>ROADS</u> | <u>ACTUAL</u> | <u>PROGRAMMED</u> | | <u>ACTUAL</u> | <u>PROGRAMMED</u> |
|-----------------------|---------------|-------------------|----------------|---------------|-------------------|
| Secondary: | | | Feeder: | | |
| Subgrade | 10.98 Km. | 11.019 Km. | Subgrade | 11.35 Km. | 11.65 Km. |
| Subbase | 9.98 Km. | 11.019 Km. | Subbase | 8.65 Km. | 11.65 Km. |
| Base Course | 8.98 Km. | 11.019 Km. | | | |
| Pavement or Surfacing | 4.26 Km. | 11.019 Km. | | | |

II - STRUCTURES (Bridges)

Bicol River:

| | | |
|---------------------|------|------|
| a.) Sub-structure | 47 m | 86 m |
| b.) Super-structure | 47 m | 86 m |

WEATHER REPORT FOR THE MONTH OF SEPTEMBER, 1981

Subproject No. 3 (Topaz-Palsong-Bula)

| Date | Weather Condition | Remarks | Time Extension Recommended |
|-------------|--------------------------------|------------|----------------------------|
| September 1 | Fair | Workable | None |
| 2 | Fair | -do- | -do- |
| 3 | Fair | -do- | -do- |
| 4 | Fair | -do- | -do- |
| 5 | Fair | -do- | -do- |
| 6 | Fair | -do- | -do- |
| 7 | Cloudy w/slight rain in P.M. | -do- | -do- |
| 8 | Fair | -do- | -do- |
| 9 | Fair | -do- | -do- |
| 10 | Fair | -do- | -do- |
| 11 | Fair | -do- | -do- |
| 12 | Fair | -do- | -do- |
| 13 | Fair | -do- | -do- |
| 14 | Fair | -do- | -do- |
| 15 | Fair | -do- | -do- |
| 16 | Cloudy | -do- | -do- |
| 17 | Rainy caused by typhoon Rubing | Unworkable | -1 day |
| 18 | Rainy | -do- | -1 day |
| 19 | Rainy | -do- | -1 day |
| 20 | Cloudy | Workable | None |
| 21 | Fair | -do- | -do- |
| 22 | Fair | -do- | -do- |
| 23 | Cloudy w/afternoon rains | -do- | -do- |
| 24 | Cloudy w/slight rain in P.M. | -do- | -do- |
| 25 | Rainy caused by typhoon Saling | Unworkable | -1 day |
| 26 | Cloudy | Workable | None |
| 27 | Fair | -do- | -do- |
| 28 | Fair | -do- | -do- |
| 29 | Cloudy w/afternoon rainshower | -do- | -do- |
| 30 | Rainy | Unworkable | -1 day |

EXTENSION RECOMMENDED 5 days

BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE III

Subproject No. 9 (Topaz-Palsong-Bula Section)

CAPITOL INDUSTRIAL CONSTRUCTION GROUPS, INC.
As of September 30, 1981

a) Contractor's Staff

| | | |
|-----------------------|---|------------------|
| Project Manager | : | Quinson D. Liao |
| Field Engineer | : | Paul Fernandez |
| Drainage Supervisor | : | Julio E. Acabado |
| Structural Supervisor | : | Roberto Lorenzo |
| Earthwork Supervisor | : | George Zeumert |

b) Percent Time Elapsed : 98.78% based on approved Revised Progress Schedule.
89.32% based on recommended Revised Progress Schedule.

c) Cause/Causes of (-) Slippage

Unfavorable weather and deficiency in equipment.

BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE III

Sub-Project No. 12 (Iriga-Salvacion-Bato)

CONTRACTOR'S STAFF
MOONROCK CONSTRUCTION
As of September 30, 1981

| | | |
|------------------------------|-----------|------------|
| 1. General Manager | 1 | |
| 2. Project Manager | 1 | |
| 3. Superintendent/Staff | 2 | |
| 4. Field Supervisors | 3 | |
| 5. Surveyors/Aides | 9 | |
| 6. Administrative/Accounting | 4 | |
| 7. Skilled Laborer | 40 | |
| 8. Unskilled Laborer | <u>83</u> | <u>143</u> |
| <u>TOTAL</u> | | <u>143</u> |

BICOL RIVER BASIN DEVELOPMENT PROGRAMME
PROGRAM OFFICE
San Jose, Pili, Camarines Sur

SUMMARY OF MANILA-BASED PERSONNEL AND LOCAL
SUB-CONTRACTORS

As of September 30, 1981

| PERSONNEL | TECHNICAL/ ENGINEERING | SKILLED | UNSKILLED | ADMINISTRATIVE | TOTAL |
|---|---------------------------|---------|-----------|----------------|-------|
| From outside Bicol River Basin Area (Manila-Based, etc.) | - | - | - | - | - |
| Within BRBD Area (Local/Sub-Contractor e) | 11 | 40 | 83 | 9 | 143 |
| TOTAL | 11 | 40 | 83 | 9 | 143 |

Prepared by:

J. ANTONIO P. DILANCO
Name

MOONROCK CONSTRUCTION
Name of Contractor

Iriga-Salvacion-Bato
Project/Contract Section

Project Manager
Designation

STATUS OF CONTRACTOR'S EQUIPMENT ON SITE
MOONROCK CONSTRUCTION
As of September 30, 1981

| <u>Equipment</u> | <u>Available on site</u> | <u>Required for the month</u> | <u>Deficiency</u> |
|-----------------------------------|------------------------------|-----------------------------------|-------------------|
| 1. Bulldozer D6 | 1 | 1 | - |
| 2. Bulldozer D7 | 1 | 1 | - |
| 3. Road Grader | 2 | 2 | - |
| 4. Pay Loader | 2 | 2 | - |
| 5. Road Roller | 1 | 1 | - |
| 6. Mini Road Roller w/Prime Mover | 1 | 1 | - |
| 7. Water Truck | - | 2 | 2 |
| 8. Dump Trucks | 7 | 10 | 3 |
| 9. Stake Trucks | 6 | - | - |
| 10. Concrete Vibrator | 1 | 1 | - |
| 11. Water Pump | 1 | 1 | - |
| 12. Bar Cutter and Bender | 1 | 1 | - |
| 13. Vibratory Compactor | - | 1 | 1 |
| 14. Rock Crushing Plant 60 Tph | 1 | 1 | - |
| 15. Concrete Mixer (1-bagger) | 3 | 1 | - |
| 16. Stake Truck w/boom | 1 | 1 | - |
| 17. Backhoe | - | 1 | 1 |
| 18. Service Vehicles | 6 | - | - |

STATUS OF ACCOMPLISHMENT FOR THE MONTH OF SEPTEMBER, 1991
Sub-Project No. 12 Iriga-Salvacion-Bato Section)

| Item No. | Description | Contract Quantity | Accomplished Qty. to date | % Accomplishment | | Actual | Slippage | Remarks |
|----------|--|-----------------------|---------------------------|------------------|----------|--------|----------|-------------|
| | | | | This period | Schedule | | | |
| 100 | Clearing and Grubbing \checkmark | 384 m ² | 384 m ² | 9.12 | 100 | 100 | - | Completed |
| 105 | Rdway. and Drainage Excavation | 14,692 m ³ | 9,332 m ³ | 33.51 | 31.00 | 63.52 | +32.52 | - |
| 106 | Excavation Structures (Drainage) | 1,763 m ³ | 851 m ³ | 21.16 | 38.00 | 48.27 | +10.27 | - |
| 107 | Borrow | 3,901 m ³ | 5,692 m ³ | 41.20 | 32.00 | 63.95 | +31.95 | - |
| 108 | Aggregate Subbase | 21,056 m ³ | 6,607 m ³ | 12.21 | 7.00 | 31.38 | +24.38 | - |
| 118 | Repreparation of Existing Road (Subbase) | 9.20 Km. | 8.276 Km. | 23.32 | 100 | 89.96 | -10.04 | - |
| 200 | Aggregate Base Course | 9,800 m ³ | - | - | 0 | - | -0 | Not started |
| 302 (1) | Bit. Prime Coat | 85 mt. | - | - | - | - | - | Not started |
| 314 (1) | Aggregate for Bit. Surface Treatment | 1,140 m ³ | - | - | - | - | - | Not started |
| 314 (3) | Asphalt Cement | 170 mt. | - | - | - | - | - | Not started |

2/ Sub-Project No. 12 (Iriga-Salvacion-Bato)

| | | | | | | | | | |
|---------|---------------------------|--------------------|--------------------|--------|-------|--------|--------|-------------|--|
| 405 | | | | | | | | | |
| (3.1a) | Class A Concrete | 166 m ³ | 171 m ³ | 42.47 | 96.00 | 103.01 | +7.01 | W/overrrun | |
| (4.21b) | Formwork for Box Culverts | 690 m ² | 564 m ² | 29.42 | 96.00 | 81.74 | -14.26 | - | |
| 406 | Reinforcing Steel | 13,529 Kg. | 12,565 Kg. | 33.55 | 96.00 | 92.87 | -2.13 | - | |
| 413a | RCPC, 0.61 m. dia. | 346 m | 69 m | 10.40 | 24.00 | 19.94 | -4.06 | - | |
| 413b | RCPC, 0.91 m. dia. | 93 m | 38 m | 21.50 | 24.00 | 40.36 | +16.86 | - | |
| 413c | RCPC, 1.07 m. dia. | 106 m | 65 m | 44.34. | 24.00 | 61.32 | +37.32 | - | |
| 413d | RCPC, 1.22 m. dia. | 192 m | 30 m | 21.88 | 24.00 | 41.67 | +17.67 | - | |
| 500a | Riprap Grouted | 681 m ³ | 107.00 | 6.83 | 24.00 | 15.71 | -8.29 | - | |
| 500c | Filter Layer for Riprap | 176 m ³ | -3.00 | -1.70 | 24.00 | 1.70 | -22.30 | - | |
| 506 | Wood Guardrail | 484 m | - | - | - | - | - | Not started | |

ITEMIZED SUMMARY OF ACCOMPLISHMENT
Sub-Project No. 12 (Iriga-Salvacion-Bato)

| Description | Contract amount | Amount Accomplished to date | % Accomplishment | | REMARKS |
|--|-----------------|-----------------------------|------------------|---------|-------------|
| | | | This | To Date | |
| I EARTHWORKS | | | | | |
| Secondary Road | 1,008,008.35 | 390,575.47 | 6.83 | 38.75 | - |
| Feeder Road: | | | | | |
| A | 304,583.05 | 197,933.30 | 32.32 | 64.98 | - |
| B | 405,572.94 | 259,971.53 | 39.22 | 64.10 | - |
| C | 735,498.94 | 223,866.16 | 24.36 | 30.44 | - |
| II BASE COARSE | | | | | |
| Secondary Road | 1,934,390.00 | - | - | - | Not started |
| III SURFACE COARSE & PAVEMENT | | | | | |
| Secondary Road (DBST) | 1,427,019.90 | - | - | - | Not started |
| IV STRUCTURES (Drainage) | | | | | |
| Secondary Road | 645,589.98 | 238,485.20 | 20.74 | 36.93 | - |

2/ Sub-Project No. 12 (Irisa-Salvacion-Rate)

Feeder Roads:

| | | | | | |
|---|-----------|-----------|-------|-------|-------------|
| A | 43,664.13 | 17,835.91 | 32.91 | 40.85 | - |
| B | 43,029.34 | 9,888.70 | - | 22.56 | - |
| C | 63,013.06 | - | - | - | Not started |

V STRUCTURES
(Box Culverts)

Secondary Road

| | | | | | |
|-----|------------|------------|-------|--------|---------------------|
| # 1 | 168,682.52 | 137,990.70 | 60.36 | 81.40 | - |
| # 2 | 166,244.76 | 176,527.44 | 9.60 | 106.18 | Completed/w/overrun |

VI INCIDENTAL CONST.

| | | | | | |
|----------------|-----------|---|---|---|-------------|
| Secondary Road | 81,592.72 | - | - | - | Not started |
|----------------|-----------|---|---|---|-------------|

PHYSICAL ACCOMPLISHMENT OF MAJOR WORK ITEMS

| I - ROADS | <u>ACTUAL</u> | <u>PROGRAMMED</u> | <u>ACTUAL</u> | <u>PROGRAMMED</u> |
|------------------------------|---------------|-------------------|---------------|-------------------|
| Secondary : | | | Feeder : | |
| Subgrade | 6.67 Km. | 9.217 Km. | Subgrade | 4.53 Km. |
| Subbase | 4.93 Km. | 9.217 Km. | Subbase | 2.54 Km. |
| Base Course | 0 Km. | 9.217 Km. | | |
| Pavement or Surfacing (DBST) | 0 | 9.217 Km. | | |

WEATHER REPORT FOR THE MONTH OF SEPTEMBER, 1981

Subproject No. 12 (Iriga-Salvacion-Bato)

| Date | Weather Condition | Remarks | Time Extension Recommended |
|-------------|--|------------|----------------------------|
| September 1 | Fair | Workable | None |
| 2 | Fair | -do- | -do- |
| 3 | Fair | -do- | -do- |
| 4 | Fair | -do- | -do- |
| 5 | Fair | -do- | -do- |
| 6 | Fair | -do- | -do- |
| 7 | Fair | -do- | -do- |
| 8 | Fair | -do- | -do- |
| 9 | Fair | -do- | -do- |
| 10 | Fair | -do- | -do- |
| 11 | Fair | -do- | -do- |
| 12 | Fair | -do- | -do- |
| 13 | Fair | -do- | -do- |
| 14 | Fair | -do- | -do- |
| 15 | Cloudy to fair | -do- | -do- |
| 16 | Fair to cloudy | -do- | -do- |
| 17 | Cloudy w/slight rain | -do- | -do- |
| 18 | Rainy due to typhoon Rubing signal no. 2 | Unworkable | -1 day |
| 19 | Rainy due to typhoon Rubing signal no. 2 | -do- | -1 day |
| 20 | Fair | Workable | None |
| 21 | Fair | -do- | -do- |
| 22 | Fair | -do- | -do- |
| 23 | Fair | -do- | -do- |
| 24 | Fair | -do- | -do- |
| 25 | Rainy | Unworkable | -1 day |
| 26 | Cloudy w/slight rain | Workable | None |
| 27 | Fair | -do- | -do- |
| 28 | Fair | -do- | -do- |
| 29 | Cloudy w/afternoon rainshower | -do- | -do- |
| 30 | Rainy | Unworkable | -1 day |

EXTENSION RECOMMENDED 4 days

BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE III

Sub-Project No. 12 (Iriga-Salvacion-Bato)

MOONROCK CONSTRUCTION
As of September 30, 1981

a) Contractor's Staff

| | | |
|----------------------|---|-------------------------|
| General Manager | : | Julio D. Ceguera |
| Project Manager | : | J. Antonio P. Dilanco |
| Superintendent/Staff | : | Gerardo C. Agawa |
| Field Supervisor | : | Sofronio A. Baldoza Jr. |
| Surveyor/Aides | : | Telesforo P. Abejero |
| Structural Foreman | : | Ulpiano Orolfo |
| Earthwork Foreman | : | Roger M. Naperi |

b) Percent Time Elapsed : 20.61%

Time elapsed is 20.61% as of September 30, 1981.

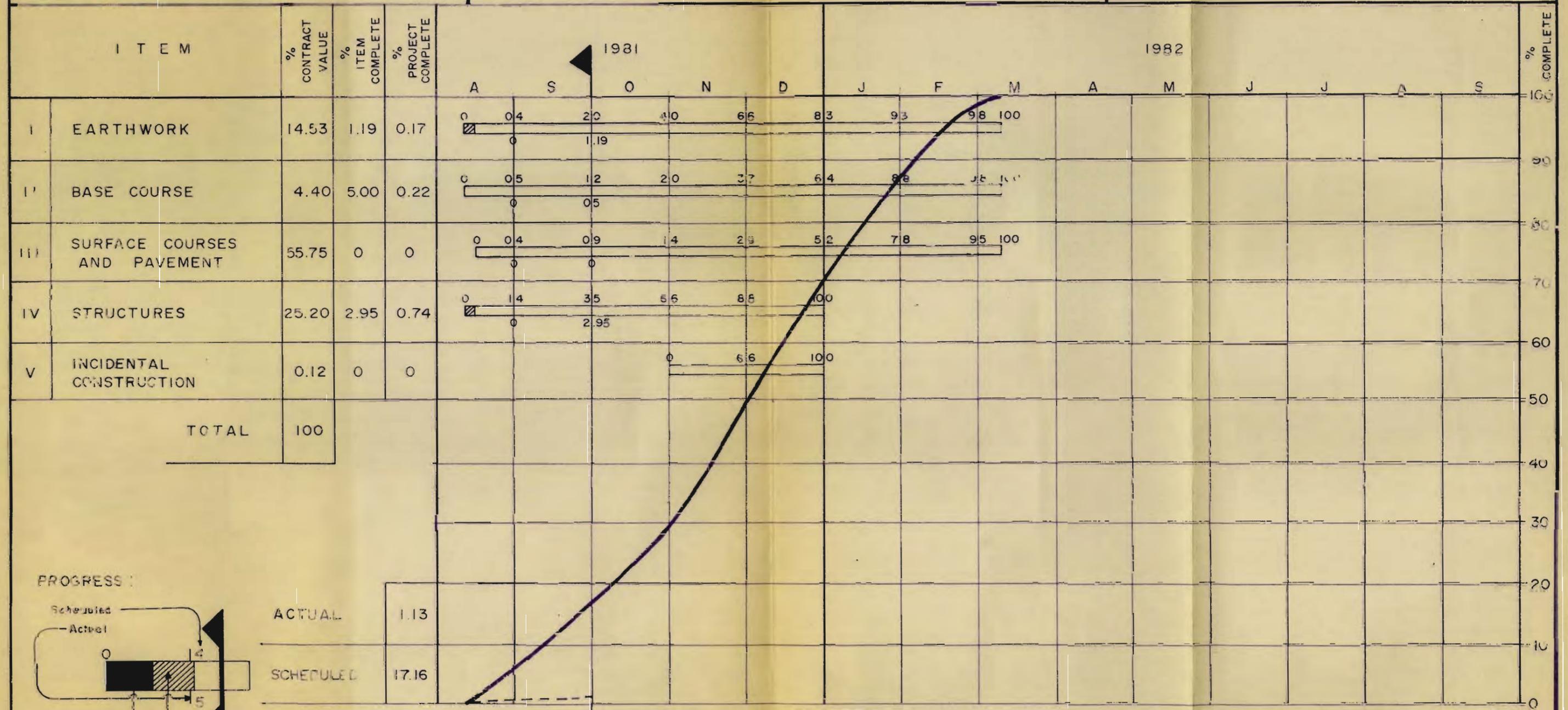
CONTRACTOR: LAL CONSTRUCTION
 BIDDING DATE: MAY 31, 1981 (THRU SEALED BID)
 OFFICIAL STARTING DATE: AUGUST 11, 1981
 ORIGINAL COMPLETION DATE: MARCH 9, 1982
 RECOMM'D COMP. DATE:
 PROBABLE COMPLETION DATE:

BICOL SECONDARY AND FEEDER ROADS PACKAGE III

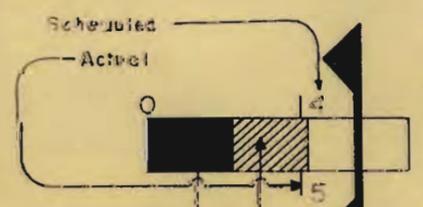
CONTRACT NO. I
 POLANGUI-LIDONG - BUHI (SUB-PROJECT 13)

MONTHLY PROGRESS REPORT AS OF: SEPT. 30, 1981
 PREPARED BY: GAUDENCIO L. BENITO, R.E.
 NET CONTRACT BID AMOUNT ₱ 6,135,119.56
 REVISED CONT. AMOUNT:
 CURRENT ESTIMATED FINAL COST:

PROGRESS CHART

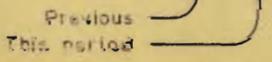


PROGRESS:



ACTUAL 1.13
 SCHEDULED 17.16

COMPLETION:



LEGEND:

- ORIGINAL PROGRESS SCHEDULE
- ACTUAL PROGRESS

BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE IIISubproject No. 13 (Polangui-Lidong-Buhi)CONTRACTOR'S STAFF
L.A.L CONSTRUCTION
As of September 30, 1981

| | | |
|------------------------------|----------|------------|
| 1. Engineers | 5 | |
| 2. Foreman | 5 | |
| 3. Surveyor/Aides | 7 | |
| 4. Administrative/Accounting | 12 | |
| 5/ Skilled | 41 | |
| 6. Unskilled | 56 | |
| 7. Timekeeper/Checker | 2 | |
| 8. Sec. Guards | <u>3</u> | <u>115</u> |
| <u>TOTAL</u> | | <u>115</u> |

BICOL RIVER BASIN DEVELOPMENT PROGRAMME
PROGRAM OFFICE
San Jose, Pili, Camarines Sur

SUMMARY OF MANILA-BASED PERSONNEL AND LOCAL
SUB-CONTRACTORS

As of September 30, 1981

| PERSONNEL | TECHNICAL/ ENGINEERING | SKILLED | UNSKILLED | ADMINISTRATIVE | TOTAL |
|---|---------------------------|-----------|-----------|----------------|------------|
| From outside Bicol River Basin Area (Manila-Based, etc.) | 1 | - | - | - | 1 |
| Within BRBD Area (Local/Sub-Contractors etc.) | 5 | 41 | 56 | 12 | 114 |
| TOTAL | 6 | 41 | 56 | 12 | 115 |

Prepared by:



LORENZO C. TOLENTINO
Name

L.A.L. CONSTRUCTION
Name of Contractor

Polangui-Lidong-Buhi
Project/Contract Section

Asst. Project Engineer
Designation

STATUS OF CONTRACTOR'S EQUIPMENT ON SITE
 L.A.L. CONSTRUCTION
As of September 30, 1981

| <u>Equipment</u> | <u>Available on site</u> | <u>Required for the month</u> | <u>Deficiency</u> |
|--------------------------|------------------------------|-----------------------------------|-------------------|
| 1. Bulldozer | 1 | 1 | - |
| 2. Road Grader | 2 | 2 | - |
| 3. Road Roller | 1 | 2 | 1 |
| 4. Payloader | 1 | 2 | 1 |
| 5. Rock Crusher (20 Tph) | 1 | 1 | 1 |
| 6. Dump Truck | 2 | 4 | 2 |
| 7. Gas Truck | 5 | 6 | 1 |
| 8. Asphalt Kettle | 2 | 2 | - |
| 9. Cement Mixer | 4 | 4 | - |
| 10. Concrete Vibrator | 1 | 2 | 1 |
| 11. Compactor Vibrator | 1 | 1 | - |
| 12. Conc. Buggies | 4 | 4 | - |
| 13. Water Pump | 2 | 2 | - |
| 14. Welding Machine | 1 | 1 | - |
| 15. Water Springles | 1 | 1 | - |
| 16. Bar Cutter | 2 | 2 | - |

STATUS OF ACCOMPLISHMENT FOR THE MONTH OF SEPTEMBER, 1981
Suproject No. 13 (Polangui-Lidong-Buhi Section)

| Item No. | Description | Contract Quantity | Accomplished Qty. to date | % Accomplishment | | Actual | Slippage | Remarks |
|----------|---|-----------------------|---------------------------|------------------|----------|--------|----------|--------------------|
| | | | | This period | Schedule | | | |
| 105 | ROADway & Drainage Excavation | 11,542 m ³ | 60 m ³ | 0.51 | 22 | 0.51 | 21.49 | Behind Schedule |
| 106 (1) | Excavation for Structures (Drainage Structures) | 660 m ³ | 170 m ³ | 1.06 | 58 | 1.06 | 56.94 | Behind Schedule |
| 106 (3) | Excavation for Structures (Bridges) | 80 m ³ | 40 m ³ | 50 | 100 | 50 | 50 | Behind Schedule |
| 108 | Aggregate Subbase | 7,232 m ³ | - | - | 20 | - | 20 | Not started |
| 118 | Repreparation of Existing Road (Base Course) | 19.31 Km. | 0.70 Km. | 3.62 | 16 | 3.62 | 12.38 | Started this month |
| 200 | Aggregate Base Course | 3,000 m ³ | 150 m ³ | 5 | 12 | 5 | 7 | -do- |
| 302 (1) | Medium Curing Cut Back Asphalt Grade MC-70 for Bit. Prime Coat | 186 mt. | - | - | 10 | - | 10 | Not started |
| 314 (1) | Aggregate for Bit. Surface Treatment (Hot Asphalt Type) | 2,628 m ³ | - | - | 9 | - | 9 | Not started |
| 314 (3) | Asphalt Cement Penetration Grade 85-100 for Bit. Surface Treatment (Hot Asphalt Type) | 382 mt. | - | - | 8 | - | 8 | Not started |
| 403 | Concrete Railing | 66 m | - | - | - | - | - | |

2/ Subproject No. 13 (Polangui-Lidong-Buhi)

| | | | | | | | | |
|----------------|--------------------------|----------------------|--------------------|------|-----|------|-------|---------------------------|
| 405 §.1a) | Class "A" Concrete | 545 m ³ | 14 m ³ | 2.56 | 29 | 2.56 | 26.44 | Started this month |
| 805 (4.21a) | Falsework | 1,960 m ³ | - | - | 36 | - | 36 | Behind Schedule |
| 405 (4.21b) | Formwork for Bridges | 1,217 m ² | - | - | 46 | - | 46 | |
| 405 (4.21c) | Formwork for Box Culvert | 1,114 m ² | 123 m ² | 1.10 | 44 | 1.10 | 42.90 | Started |
| 406 | Reinforcing Steel | 56,915 Kg. | 2,550 Kg. | 4.48 | 37 | 4.48 | 32.52 | Started |
| 407 | Structural Steel | 1,520 Kg. | - | - | 36 | - | 36 | |
| 413a | RCPC, 0.61 m ϕ | 12 m | - | - | 100 | - | 100 | No RCPC installed to date |
| 413b | RCPC, 0.91 m ϕ | 6 m | - | - | 100 | - | 100 | No RCPC installed to date |
| 413c | RCPC, 1.07 m ϕ | 8 m | - | - | 100 | - | 100 | No RCPC installed to date |
| 413d | RCPC, 1.22 m ϕ | 27 m | - | - | 100 | - | 100 | No RCPC installed to date |
| 500a | Riprap Grouted | 595 m ³ | - | - | 12 | - | 12 | |
| 500c | Filter Layer | 160 m ³ | - | - | 24 | - | 24 | |
| 506 | Wood Guardrail | 60 m | - | - | - | - | - | |

ITEMIZED SUMMARY OF ACCOMPLISHMENT
Subproject No. 13 (Palangui-Lidong-Suni)

| Description | Contract amount | Amount Accomplished to date | % Accomplishment | | REMARKS |
|--------------------------------|-----------------|-----------------------------|------------------|---------|-------------|
| | | | This period | To Date | |
| I EARTHWORKS | | | | | |
| Secondary Road | 404,525.18 | 6,784.60 | 1.68 | 1/68 | Not started |
| Feeder Road | 486,610.00 | - | - | - | - |
| II BASE COURSE | | | | | |
| Secondary Road | 270,000.00 | 13,500.00 | 5 | 5 | Not started |
| III SURFACE COURSES & PAVEMENT | | | | | |
| Secondary Road | 3,420,527.73 | - | - | - | Not started |
| IV STRUCTURES (Drainage) | | | | | |
| Secondary Road | 28,833.50 | - | - | - | Not started |
| Feeder Roads | 53,692.20 | - | - | - | Not started |

| | | | | | | |
|-----|------------------------------|------------|-----------|-------|-------|---------------------------|
| V | STRUCTURES (Box Culverts) | | | | | |
| | Secondary Road | 116,043.00 | - | - | - | Not started |
| | Feeder Road | 412,095.00 | 48,067.50 | 11.66 | 11.66 | Not on schedule |
| VI | STRUCTURES (Bridges) | | | | | |
| | Secondary: | | | | | |
| | Lallo Bridge | 866,862.50 | 1,380.00 | 0.16 | 0.16 | |
| | Batang Bridge | 36,238.00 | - | - | - | Riprapping not Started |
| | Araga Bridge | 53,892.50 | - | - | - | Riprapping not Started |
| VII | INCIDENTAL CONST. | 7,200.00 | - | - | - | |

PHYSICAL ACCOMPLISHMENT OF MAJOR WORK ITEMS

| I - <u>ROADS</u> | <u>ACTUAL</u> | <u>PROGRAMMED</u> | | <u>ACTUAL</u> | <u>PROGRAMMED</u> |
|------------------|---------------|-------------------|----------|---------------|-------------------|
| Secondary: | | | Feeder: | | |
| Subgrade | 21.215 Km. | 21.464 Km. | Subgrade | 20.503 Km. | 22.361 Km. |
| Subbase | 20.35 Km. | 21.464 Km. | Subbase | 19.203 Km. | 22.361 Km. |
| Base Course | 20.76 Km. | 21.464 Km. | | | |
| Pavement | 1.99 Km. | 21.464 Km. | | | |

II - STRUCTURES (Bridges)

Lallo Bridge:

| | | |
|--------------------|---------|---------|
| a) Sub-structure | 33 L.m. | 33 L.m. |
| b) Super-structure | 0 | 33 L.m. |

Araga Bridge:

| | | |
|--------------------|---------|---------|
| a) Sub-structure | 18 L.m. | 18 L.m. |
| b) Super-structure | 18 L.m. | 18 L.m. |

Batang Bridge:

| | | |
|-----------------|------------|------------|
| Sub-structure | 33.61 L.m. | 33.61 Km. |
| Super-structure | 33.61 L.m. | 33.61 L.m. |

Note:

Riprapping of second approach of Araga Bridge not yet completed.

Both approaches of Batang Bridge not yet completed.

WEATHER REPORT FOR THE MONTH OF SEPTEMBER, 1981

Subproject No. 13 (Polangui-Lidong-Buhi)

| Date | Weather Condition | Remarks | Time Extension |
|-------------|--------------------------------|------------|----------------|
| | | | Recommended |
| September 1 | Fair | Workable | None |
| 2 | Fair | -do- | -do- |
| 3 | Fair | -do- | -do- |
| 4 | Fair | -do- | -do- |
| 5 | Fair | -do- | -do- |
| 6 | Fair | -do- | -do- |
| 7 | Cloudy w/slight rain in P.M. | -do- | -do- |
| 8 | Fair | -do- | -do- |
| 9 | Fair | -do- | -do- |
| 10 | Fair | -do- | -do- |
| 11 | Fair | -do- | -do- |
| 12 | Fair | -do- | -do- |
| 13 | Fair | -do- | -do- |
| 14 | Fair | -do- | -do- |
| 15 | Fair | -do- | -do- |
| 16 | Cloudy | -do- | -do- |
| 17 | Rainy caused by typhoon Rubing | Unworkable | -1 day |
| 18 | Rainy | -do- | -1 day |
| 19 | Rainy | -do- | -1 day |
| 20 | Cloudy | Workable | None |
| 21 | Fair | -do- | -do- |
| 22 | Fair | -do- | -do- |
| 23 | Cloudy w/afternoon rain | -do- | -do- |
| 24 | Cloudy w/slight rain in P.M. | -do- | -do- |
| 25 | Rainy caused by typhoon Saling | Unworkable | -1 day |
| 26 | Cloudy | Workable | None |
| 27 | Fair | -do- | -do- |
| 28 | Fair | -do- | -do- |
| 29 | Cloudy w/afternoon rainshower | -do- | -do- |
| 30 | Rainy | Unworkable | -1 day |

EXTENSION RECOMMENDED 5 days

BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE III

Subproject No. 13 (Polangui-Lidong-Buhi Section)

LAL CONSTRUCTION
As of September 30, 1981

a) Contractor's Staff

| | | |
|------------------------|---|----------------------|
| Project Engineer | : | Julian T. Regalado |
| Asst. Project Engineer | : | Lorenzo C. Tolentino |
| Bridge Engineer | : | Artemio Antonio |
| Material Engineer | : | Ramon Regalado |

b) Percent Time Elapsed : 24.28%

c) Cause/Causes of (-) Slippage

1. Lack of appropriate equipments for Pier foundation excavation and for Roadwork.
2. Too small crusher to supply different aggregates requirement.
3. Poor coordination of work activities.

DCCD ENGINEERING CORPORATION
BICOL RIVER BASIN SECONDARY & FEEDER ROADS PROJECT
PACKAGE III

CONSULTANT'S STAFF
As of September 30, 1981

CONSULTANT TECHNICAL STAFF

Key Staff

| | | | |
|----|--------------------------|----------|---|
| 1. | Project Manager | 1 | |
| 2. | Resident Engineer | 1 | |
| 3. | Deputy Resident Engineer | <u>1</u> | 3 |

Support Staff

| | | | |
|----|-----------------------|----------|----|
| 1. | Asst. Civil Engineers | 3 | |
| 2. | Inspectors | 3 | |
| 3. | Survey Aides | 3 | |
| 4. | Sr. Lab. Technician | 1 | |
| 5. | Draftsman | <u>1</u> | 11 |

Administrative Staff and Support Personnel

| | | | |
|----|--------------------------|----------|---|
| 1. | Administrative Officer | 1 | |
| 2. | Administrative Assistant | 1 | |
| 3. | Accountant | 1 | |
| 4. | Clerk/Typist | 1 | |
| 5. | Utility Men/Janitor | 1 | |
| 6. | Drivers | 2 | |
| 7. | Security Guards | <u>2</u> | 9 |

T O T A L 23

BICOL RIVER BASIN DEVELOPMENT PROGRAMME
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONSULTANT DCCD ENGINEERING CORPORATION

FOR THE MONTH OF SEPTEMBER, 1981

| | | Administrative/ Finance | Engineering/ Technical | Skilled | Unskilled |
|----------------|----|----------------------------|---------------------------|----------|-----------|
| Manila-Based | 1/ | 3 | 7 | 1 | 1 |
| Local-Hired | 2/ | 1 | 3 | 7 | |
| Sub-Contractor | 3/ | | | | |
| TOTAL | | 4 | 10 | 8 | 1 |

1/ Excluded permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted by:

Richard S. Basa
RICHARD S. BASA
Project Manager