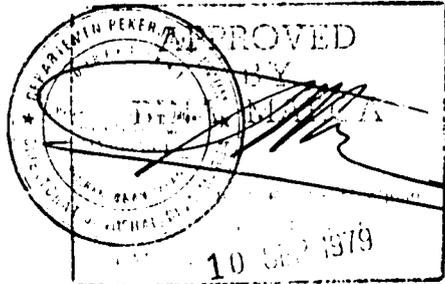




REPORT NO. 63

JAGORAWI HIGHWAY PROJECT
CONSULTING SUPERVISORY SERVICE

SUBMITTED BY :



Larry G. Buntzen
LARRY G. BUNTZEN
Engineer in Charge

FOR THE MONTH OF
JULY 1979

PREPARED BY : JOINT VENTURE
AMMANN & WHITNEY
TRANS-ASIA ENGINEERING
ASSOCIATES INC.,
P.O. BOX 44
BOGOR
INDONESIA

JAGORAWI HIGHWAY

SITE MAP

SCALE 1:250,000

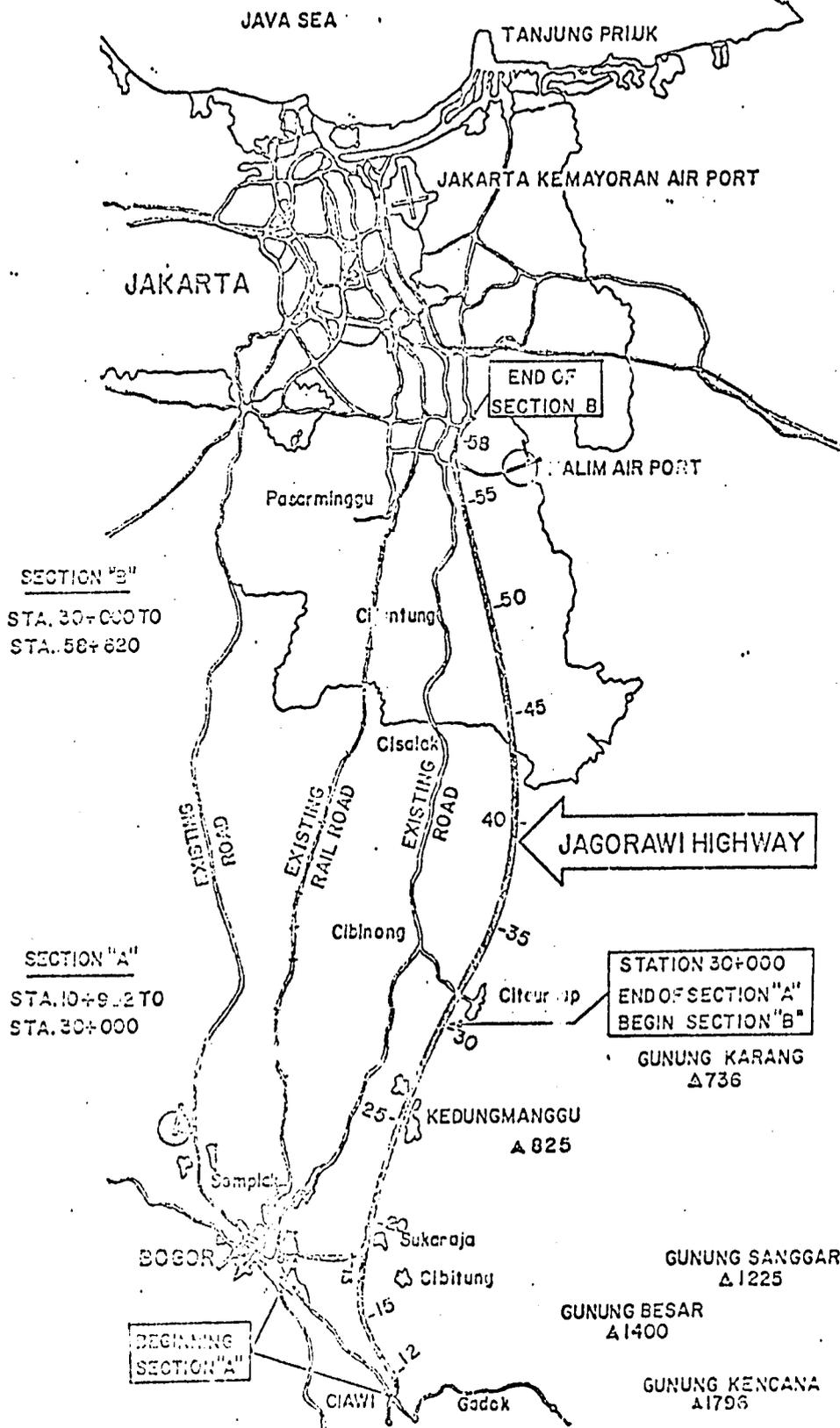


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SECTION I NARRATIVE SUMMARY

I. NARRATIVE SUMMARY

Bina Marga has taken no action to commission the Ciawi Section of Jagorawi. Construction of the Ciawi Toll Office (by others) is not complete and a power supply for the Ciawi traffic signal system has not been provided.

A formal final inspection of all of Section A was made on July 10, 1979. A few additional minor defects were noted. The Contractor corrected all of these defects during July. Major work to be deferred into the maintenance guarantee period includes

- 1) Demobilization of plants and equipment and vacating the quarry site (6-months time proposed).
- 2) Testing and commissioning of the Ciawi Traffic Signals (1-week after power is supplied is proposed).
- 3) Probable re-planting of strip sodding on some cut slope (work to be done during the rainy season).
- 4) Removal of temporary ramps at the quarry site (if requested by Bina Marga).

Bina Marga has requested the Engineer to review and prepare a report on the Contractor's major claim for Section A and B. A preliminary claim review was submitted by the Engineer by letter referenced 4557/C-19/BM dated July 17, 1979. Bina Marga has returned the claim to the Contractor for re-submittal through the Contractor's authorized site representative. The Engineer has requested 14-weeks of Engineer Specialist time for review and preparations of a report on this claim.

The Contractor's claim for additional payments (at extra work rates) for the Ciawi Intersection and Toll Plaza and the Bogor Toll Plaza and Baranangsiang Intersection is being reviewed by the Engineer. The Engineer's review of the rupiah cost portion of the Contractor's rupiah devaluation claim is complete and a recommendation will be given to Bina Marga soon.

SECTION I NARRATIVE SUMMARY

I. NARRATIVE SUMMARY

Cooperation by the Contractor in resolving Contract item payments and some non-claim related change orders is now good. Basically all quantities in Section B, except earthwork, have been agreed. Cost adjustment data for major item overruns/underruns has still not been submitted by the Contractor.

The lacklog of Contractor rupiah invoices has been paid this month. A problem has developed in that rupiah funds authorized by the Contract Tender plus Amendments No. 1 through 3 have been expended. G.O.I Treasury payments to the Contractor exceed authorized disbursements by about Rp 800,000,000, and it is possible that future Contractor invoices may not be honored by the Treasury. The Engineer has prepared a draft revision for Amendment No. 1 to provide funding for the rupiah devaluation adjustment authorized by Bina Marga, and a draft supplement to Amendment No. 3 to authorize additional funding for rupiah change orders approved to date.

The problem lies in the Contractor's refusal to sign change orders for which all work is complete and payments have been invoiced and approved. These pending change orders represent payments of about one billion rupiahs, which can not be formalized on an amendment and given to the Treasury.

The Contractor, without requesting approval of the Engineer or Bina Marga, has shipped spare parts to Indonesia for the purpose of overhauling project equipment prior to export. The cost of lost import duties, added labor and fuel escalation payments and possible violation of US/AID shipping regulations will represent additional costs to Bina Marga. A policy decision by Bina Marga on this matter is needed very soon.

The Contractor's maintenance guarantee period for Section B expired July 31, 1979. Full maintenance responsibility is now carried by Bina Marga.

SECTION II ADMINISTRATION

II. 1. SUBMISSIONS/APPROVALS

The Engineer's Rupiah Invoice No. 62 for June was submitted and approved by Bina Marga.

The Engineer's Dollar Invoice No. 45 for March, April and May was submitted. Approval is pending. Contractor back Rupiah Invoices No. 58, No. 59, Invoice No. 10 for Contract Amendment No. 1, Invoice No. 1 for Supplement No. 1 to Amendment No. 1, and a special invoice for the release of retention money for Contract Amendment No. 1 were all approved by Bina Marga.

A request to increase visiting specialist and principal per diem to Rp 18,750 was submitted.

Mr. Gerald Takayesu was approved to fill the vacant Deputy Resident Engineer, Quantity position.

A request for 12 weeks ($3\frac{1}{2}$ M-M) specialist time to review and prepare recommendations on the Contractor's claim for Section A and B was submitted.

A request to increase local staff wages and resident expatriate living allowances, due to inflation following the rupiah devaluation, was submitted.

A complete listing of all correspondence for the month is contained in the appendix of this report.

II. 2. DECISIONS

There were no major decisions this month.

II. 3. MAJOR CONFERENCES

A Contractor/Engineer/Bina Marga meeting was held July 7, 1979. Purpose of the meeting was to discuss unresolved change orders. Agreement on several non-claim related change orders was obtained.

SECTION II ADMINISTRATION

II. 3. MAJOR CONFERENCES (Cont'd)

Agreement in principle, on the Contractor's proposed adjustment due to decreased efficiency of operations under traffic conditions in Section B was also obtained.

Bina Marga offered to allow adjustment of item work to actual costs (extra work time and materials rates) for change order work at Ciawi Intersection and Baranangsian Intersection. The Contractor held out for this same adjustment at Bogor and Ciawi Toll Plazas. These four locations and the aggregate fill change order were not resolved.

Change orders for the bridge modification work at Ramp 23, foot bridges in Section B, and the bridge construction at Station 34+443 appear to be stalemated. US/AID did not participate in these costs. The Contractor is now requesting dollar payments from Bina Marga rather than equivalent rupiahs as provided by the pending CCOs.

Agreement in principal on the Contractor's rupiah devaluation claim was obtained; however, approval and final decisions will be made by a Bina Marga review committee.

II. 4. OFFICIAL VISITS

Weekly visits by Mr. Koski of US/AID continued.

II. 5. FINANCIAL OVERRUNS/UNDERRUNS

The dollar letter of credit for the Engineer's Contract Amendment No. 4 (\$110,000) has not been established. Bina Marga is initiating approval procedures. There will be about \$ 130,000 remaining in the existing letters of credit after Invoice No. 45 is approved.

DOLLAR COSTS

Payments for additional earthwork quantities in Section B

SECTION II ADMINISTRATION

II. 5. FINANCIAL OVERRUNS/UNDERRUNS (Cont'd)

were approved by the Engineer. Added dollar costs are about \$ 120,000. Because of delays in opening letters of credit for the maintenance equipment, inflationary increases will probably occur. The maintenance equipment costs have been increased 10% to \$ 660,000. An AID audit of the Contractor's records in March indicates that an additional \$ 250,000 of ineligible shipping will have to be deducted from the Contractor. The net affect of these changes is an increase in the dollar contingency balance of \$ 170,000.

RUPIAH COSTS

After evaluation of the Contractor's rupiah devaluation claim, it appears that the Rp 340,000,000 requested for rupiah contract item work will be settled for about Rp 120,000,000. We have reduced rupiah costs accordingly.

Presently rupiah treasury payments exceed authorized costs by about Rp 800,000,000. In order to authorize additional funds, all approved contract change orders must be placed on an amendment to the Contract. The Engineer prepared a draft supplemental agreement to Amendment No. 3 that authorizes all additional approved COs to date. The Engineer also prepared a revision to Amendment No. 1, authorizing approved rupiah devaluation payments that apply to that Amendment.

The cost of the Contractor's major claim has not been shown in the cost breakdown; Based on the Engineer's preliminary review, most if not all, of this claim should be denied.

II. 6. CLAIMS

Rupiah Devaluation

Agreement at the project level has nearly been obtained. The Contractor's request for a 50% increase in rupiah payments has been analyzed by the Engineer. The Engineer recommends

SECTION II ADMINISTRATION

II. 6. CLAIMS (Cont'd)

an 11% increase for Section B and 18% increase for Section A.

Ciawi Toll, Bogor Toll, Bogor Intersection, and Ciawi Intersection.

The Engineer is reviewing the Contractor's claim for actual costs at these locations. The Engineer's production rates, determined from scale sheets and inspector's daily reports, are generally greater than those estimated by the Contractor. The Contractor has agreed to reduce his cost estimate to agree with the actual higher production rates determined from the Engineer's records.

Major Claim, Section A and B

The Engineer has submitted a preliminary review of the claim to Bina Marga. Bina Marga has refused to accept the claim on the grounds that it was not submitted by an authorized representative of Hyundai Construction Co., Ltd. The claim was returned to the Contractor for submittal through the Company's authorized representative.

The claim was resubmitted by Site Manager, Kim, Jong Won on August 1, 1979. The claim was submitted directly to the Director General, Bina Marga and not through the Engineer.

Bina Marga has requested that the Engineer review and report on this claim. The Engineer has requested specialist review time as follows :

Robert McLaughlin (Bridge Engineer)	1 week
William Burroughs (Engineer in Charge)	4 weeks
George Katavolos (Engineer in Charge)	1 week
Claims Specialist	<u>8 weeks</u>
T o t a l	14 weeks

Claim correspondence follows :

AMMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE
ARCHITECTS ENGINEERS CONSULTANTS PLANNERS

Please reply to : P.O. Box 44/Bogor
Indonesia

July 4, 1979

Ref. No. : 4538/C-18/BM

To : Ir. J. Hendro Moeliono
Project Manager, Jagorawi

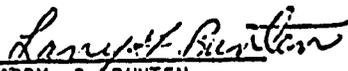
Subject : Contractor's Letter of Claim for Section A & B

Ref. : Contractor letter Ref. HD-232/BM/G, dated June 28, 1979.

A copy of the above claim, addresses to the Directorate General, Bina Marga was received by the Engineer on June 29, 1979. The claim was not routed through the Engineer.

If you wish the Engineer to review and comment on this claim, so state in writing. At the minimum, a home office review is warranted due to the involvement of the Engineer in several of the claims.

Very truly yours,


LARRY G. BUNTEN

Engineer In Charge

LGB/ar

c.c. : Director of Construction
Joint Venture - NYC
Trans Asia - Jakarta
US/AID - Jakarta
DRE Quantities ✓
DRE Quality Control



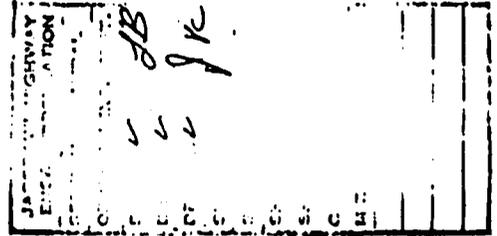
DEPARTEMEN PEKERJAAN UMUM
 DIREKTORAT JENDERAL BINA MARGA
 DIREKTORAT PEMBANGUNAN JALAN
PROYEK PEMBANGUNAN JALAN JAKARTA-BOGOR-CIAWI
(J A G O R A W I)

Alamat : 1. Jl. Senopati No. 26 Telp. 770942 Kebayoran Baru - Jakarta
 2. Louwinutug - Citeureup Kotak Pos No. 87 - Bogor

July 9, 1979

No. : BM-446/E

AMMANN & WHITNEY
 Trans Asia Engineering Associates Inc.
P.O. Box 44 - BOGOR



Subject : Contractor's Letter of Claim for Section A & B.

Ref. : Contractor letter Ref. HD-232/BM/G, dated June 28, 1979

Rewarding to your letter Ref. No. : 4538/C-18/BM, dated July 4, 1979.

Bina Marga wishes the Engineer to review and comment on the Contractor's Claim.

Your prompt attention will be appreciated.

629

RECORDED
 9 JUL 1979
 AMMANN & WHITNEY
 TRANS ASIA - ENG
 a Joint Venture

JAGORAWI HIGHWAY PROJECT.
 Ir. J. Hendro Moeljono
 Project Manager

- c.c. :
1. Director General of Highways
 2. Director of Construction.

HYUNDAI CONSTRUCTION CO., LTD.

GENERAL CONTRACTOR

SITE OFFICE:
 JAGORAWI HIGHWAY PROJECT
 P.O. BOX 184 BOGOR
 INDONESIA.

July 16, 1979

JAKARTA OFFICE I
 KOREA CENTER BUILDING
 JL. GATOT SUBROTO KAV. No. 88
 TEL. 1 811488

Ammann & Whitney
 Trans-Asia Engineering Assoc., Inc.,
 A Joint Venture
 P.O. Box 44 - Bogor.

RECEIVED	EXPL. DIVISION	GENERAL	ORIG. EXP. CTY.	DATE	BY	NO.	CHK	REF. NO.
✓	✓	✓	✓	16/7/79	[Signature]	[Blank]	[Blank]	HD-C-880

Attention : Mr. Larry G. Bunten
 Engineer In Charge

Subject : Our claim for US Dollar 23.8 million
 Contractors' Representative

Dear Sir,

We refer to your letter of the 4 July 1979 reference number 453/C-107 on which we have the following comments :

1. Our claim was submitted to the Directorate General Bina Marga in strict accordance with the requirements of Section 105.18 of the Special Provisions. That clause requires all disputes or differences whatsoever arising between the parties to the contract or their respective representatives to be submitted to the Directorate General. It is clear that the clause contemplates that reference is to be made direct to the Directorate General and not through the Engineer. Unless therefore you are saying that there is no dispute or difference because our claim will be met in full, we believe that we have followed exactly the requirements of the contract in submitting the claim as we have done.
2. You are not correct in your assertion that the claim data was prepared under the direct administration of persons other than Mr. Kim, Jong Won. Mr. Kim participated directly in the preparation of the claims and the basic claim documentation was completed under his direct administration. The claim would be nonetheless valid if it had not been prepared under the direct administration of Mr. Kim, Jong Won, but we have thought it best to set the record straight.
3. It is also not correct to say that by Hyundai's letter HD-134/DM/G of 1st May 1978 only Mr. Kim, Jong Won is authorized to represent Hyundai on this project. The letter authorizes Mr. Kim, Jong Won to act for Hyundai but it does not in any way limit the authority of Mr. Kim, Jong Won's superiors in the company to represent it. Thus, Mr. Kim, Jong Won's authority could be validly revoked at any time by Hyundai through its representative officers, whether president or vice president, and another site manager and contractor's representative appointed in his place. In view of the importance of the claim document and the gravity of the matters raised in it, it was felt entirely appropriate that it should be sent to the

RECEIVED

16 JUL 1979

AMMANN & WHITNEY
 TRANS-ASIA-ENG
 a Joint Venture

1604

Directorate General

HYUNDAI CONSTRUCTION CO., LTD.

Directorate General Bina Marga under a covering letter signed by Mr. Lee, Ki Chang, who is the vice president responsible for the activities of Hyundai Construction Company Limited throughout the whole of south east Asia.

Mr. Lee, Ki Chang is Mr. Kim, Jong Won's superior and it is axiomatic that any matters approved by Mr. Lee, Ki Chang have the approval of Mr. Kim, Jong Won by this letter, Mr. Kim, Jong Won expressly confirms that the claim document has, and has always had, his full approval and authority.

4. For the reasons set out above we reject entirely your conclusion that the claim is not valid. Apart from the fact that you have no contractual grounds upon which to base this assertion, you have also no authority under the Contract to rule on the validity or invalidity of any claim. If you will consider the terms of Special Provision 105.01 you will see that in respect of claims your authority is to advise the Directorate General Bina Marga on these (see Sub-Paragraph (L)).
5. If you wish to give to the Directorate General Bina Marga specific examples of where you consider that the claims submitted under cover of Mr. Lee, Ki Chang's letter of the 28 June 1979 overlap and conflict with those previously submitted by Mr. Kim, Jong Won then we will be happy to consider these and to discuss them together with the contents of the claim document with the Directorate General Bina Marga and its advisers (including of course yourself) whenever it is convenient.
6. Although we do not believe that there can be any doubt as to Mr. Kim, Jong Won's continued authority under the terms of his original appointment, which have not been varied in any way, it is hereby confirmed that he still has and continues to exercise that authority.
7. We would point out that Special Provision 105.18 provides for the Director General to give his ruling on the claims within 30 days of receipt and no doubt you will be so informing him in your advisory capacity under Sub-Paragraph (L) of Special Provision 105.01.
8. We enclose herewith a copy of this letter for onward transmission to the Directorate General Bina Marga and should be grateful if you would forward this to the Directorate General Bina Marga.

Sincerely yours,

HYUNDAI CONSTRUCTION CO., LTD.


KIM, JONG WON
Site Manager

c.c : Project Manager
Director General
Director of
Construction
US/AID - Jakarta
ND Head Office

*Ans by letter
dated July 19 79
JB*

AMMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

July 17, 1979
Ref. No. : 4557/C-19/6H

To : Mr. J. Hendro Soeljono
Project Manager, Jakarta

Subject : Preliminary Review of Contractor's Claim for
Section A and B with Recommendations.

Reference : 1) Contractor letter referenced HD-232/SM/A dated June 28,
1979 and signed by Mr. Leo, KI Chang.
2) Engineer letter to Hyundai Construction Company Ltd.,
reference 4539/G-307 dated July 4, 1979.
3) Engineer letter to Bina Marga referenced 4539/C-10/6H,
dated July 4, 1979.
4) Bina Marga letter reference BH-447/E, dated July 9,
1979 to the Engineer.
5) Hyundai letter referenced PD-G-406 dated July 16, 1979.

Bina Marga has requested the Engineer to review and comment on the Contractor's claim for additional payments for Section A and B.

The review will be in two phases :

Phase I - Preliminary review and recommendations.

Phase II - Technical review, and through search of project records
with recommendations.

Phase II will require some two to three months for a claims specialist to be on site to evaluate the claim, project records and prepare a recommendation report. Ideally, some input from Mr. William Burroughs and Mr. George Katsavlos should be obtained. Both are presently residing in the Philippines. A home office review by these men would be helpful. Possibly, Mr. Burroughs may be available to discuss the claim with Bina Marga, and research files here in Indonesia.

(Cont'd page 2)

Best Available Document

AMMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

Page : 2

July 17, 1973
Ref. No. : 4557/C-19/DH

To : Mr. J. Hendro Meljono
Project Manager, Jangrawi

Subject : Preliminary Review of Contractor's Claim for
Section A and B with Recommendations.

Mr. Robert McLaughlin is familiar with the prestress cable rejection claim and can provide input for the excess cement portion of the claim. Mr. McLaughlin is residing in Indonesia and may be available on a day basis.

Recommended Specialist Review (subject to availability of personnel)

<u>N a m e</u>	<u>Location of Review</u>	<u>Amount of Time Required</u>
George Katsavlos	Manila	1 week
William Burroughs	Manila	1 week
William Burroughs	Lewwinutug	3 weeks (non-continuous)
Robert McLaughlin	Lewwinutug	1 week
Claim Specialist	Lewwinutug	<u>8 weeks</u>
	T o t a l	14 weeks
	or	<u>2$\frac{1}{2}$ man-months</u>

The Engineer's preliminary review of the claim is enclosed. After Dina Margas reviewed, please authorize the Engineer to proceed with the Specialist review as outlined above.

Very truly yours,

LGS/jag

cc : Director of Construction,
Joint Venture - N.Y.C.
Joint Venture - Manila
Trans Asia - Jakarta.
US/AID - Jakarta.
Claim File.

LARRY G. BUITEN
Engineer in Charge

DRE Quantities.
DRE Quality Control.
William Burroughs c/o Trans Asia Manila.

AMMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

July 18, 1979

Ref. No. : 4558/C-20/BM

To Ir. J..Hendro Moeliono
Project Manager, Jagorawi

Subject Additional Claim Correspondence

Attached is a copy of Hyundai letter referenced HD-G-480, dated July 16, 1979 and the Engineer's reply referenced 4557/C-19/BM, dated July 17, 1979. Both letters are relevant to the claim for Section A and B.

Very truly yours,

LGB/ar

c.c. : Director of Construction
Joint Venture - NYC
Trans Asia - Jakarta
DRE Quantities
DRE Quality Control
Claim File.

.....
LARRY G. BUNTEN
Engineer in Charge

ARMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

July 19, 1979

Ref. No. : 4560/C-21

To : HYUNDAI CONSTRUCTION COMPANY LTD.

Subject : Your letter Clarifying the Position of Contractor's Representative.

Ref. : Contractor letter HD-G-480, dated July 16, 1979

We disagree with your statement in paragraph 3 that there can be more than one authorized representative of Hyundai Construction Company, Ltd. The Engineer has interpreted Section 101.02, "Definitions" of the Contractor Special Provisions - "Contractor's Representative" as follows :

Contractor's Representative is singular not plural. We interpret this as one (singular) representative who is, as you confirm in paragraph 6, Mr. Kim, Jong Won. We have prior to your reminder of our contractual duties (paragraph 4) - advised Bina Marga of our above interpretation of Section 101.02 (S.P).

We find it difficult to reconcile your statements in paragraph 5 where you suggest discussions with the Directorate General and his advisers and your statement in paragraph 7 that the Engineer should remind the Directorate General he has only 30-days to render a written ruling for this claim.

Cont'd (2)

AMMANN & WHITNEY
ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

Ref. No. : 4560/C-21

Page : 2 ...

To : HYUNDAI CONSTRUCTION COMPANY LTD.

A thorough review and project level discussions will require much more time than the 30-days specified for the Directorate General to respond to your claim.

A preliminary review of the claim has been made and the following discrepancies noted

- 1) There has been a previous withdrawal of your claim for delays in opening the letter of credit.
- 2) Agreed compensation for increases in foreign materials and equipment parts, as provided by Contract Amendment No. 1, is apparently not considered in the delay portion of your claim.
- 3) Design changes, quantity increases for aggregates, local materials and local labor escalation, and time extensions for Section A and B have all been covered by approved Contract Change Orders.
- 4) The claim for Section A and B is dated March 1979. The claim projects additional cost for aggregates, portland cement, asphalt and earthwork through completion (June 30, 1979). You have recently submitted a different claim for Clay Toll Plaza, Clay Intersection Bequer Toll Plaza and Baranonesiang Intersection, claiming 'actual costs' for the above same items of work.

Cont'd (3)

AMMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

Ref. No. : 4560/C-21

Pg. : 3

To : HYUNDAI CONSTRUCTION COMPANY LTD.

- (5) Asphalt extraction testing and rejection of prestress cable were performed jointly or witnessed jointly.
- (6) No backup cost data is provided.

Because of some of the above conflicts between project level agreements and the claim for Section A and B, we do not concur with your position that Mr. Kim, Jong Won can indirectly, and after the fact, pretend that the claim was submitted through himself.

The claim was routed around all project level personnel. Therefore, we propose the following course of action. We suggest that Mr. Kim, Jong Won recall the claim and begin discussion at the project level. The differences noted in our preliminary review, we feel, should be resolved at the project level prior to your submittal to the Directorate General for a ruling.

If differences at the project level can not be resolved, of course Mr. Kim, Jong Won can then appeal to the Directorate General for his written ruling.

Cont'd (4)

AMMANN & WHITNEY
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

Ref. No. : 4569/C-21

Page : 4

To : HYUNDAI CONSTRUCTION COMPANY LTD.

Conclusions

We do not agree with your belated effort to assign the claim to Mr. Kim, Jong Won. The claim bypassed all project representatives, including Mr. Kim, Jong Won and there has been no opportunity for the Directorate General to gather facts or information upon which a decision could be based, other than outright denial.

We feel it is best for all parties concerned if the claim is recalled and discussion at the project level begun. If the claim can not be resolved at the project level, Mr. Kim Jong Won is entitled to appeal differences to the Directorate General, Bina Marga for a ruling.

Very truly yours,

LGS/ar

c.c. : Director of Construction
Joint Venture - NYC
Trans Asia - Jakarta
US/AID - Jakarta
Ir. J. Hendro Moeljono
DRE Quantities
DRE Quality Control
Claim File.

.....
LARRY G. DUNTON
Engineer in Charge

20



DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL DINA MARGA
DIREKTORAT PEMBANGUNAN JALAN
PROYEK PEMBANGUNAN JALAN JAKARTA-BOGOR-CIAWI
(J A G O R A W I)

Alamat : 1. Jl. Senopati No. 26 Telp. 776942 Kebayoran Baru - Jakarta
2. Leuwintug - Citeureup Kotak Pos No. 87 - Bogor

July 24, 1979.

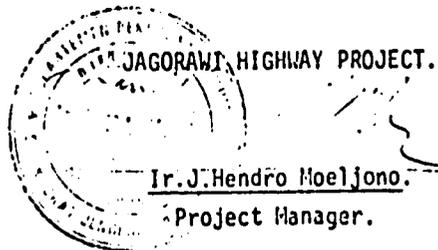
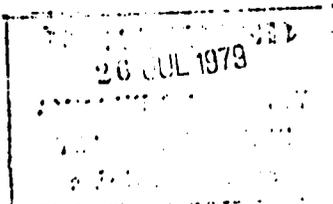
Ref.No : BM-448/E.

To : AMMANN & WHITNEY
Trans Asia Engineering Assoc. Inc.
P. O. Box 44 - B O G O R

Subject : The Contractor's Claim for Section A and B.

Transmitted herewith a copy of the Director General of Highways letter
Ref.No. : KU. 030402
DJ.277/BM/1979 dated July 21, 1979, to respond the Hyundai's
letter Ref.No. : HD-232/BM/G dated June 28, 1979, regarding the Contractor
Claim for Section A and B.

Your prompt attention will be appreciated.



C.C. :

1. Director of Construction.

DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA
JALAN PATTIMURA No. 20 PERC. 7 TELP. 774165 P.O. BOX 2731
KEBAYORAN BARU - JAKARTA

Ref.No. :

NO 232/109
DJ#77/BM/109

Jakarta, July 21, 1979.

To : HYUNDAI CONSTRUCTION Co.Ltd.
JAGORAWI HIGHWAY PROJECT
BOGOR - INDONESIA.

Subject : Response to the Contractor Claim for Section A and B.

In accordance with Article 105.18 of the Special Provisions of the Jagorawi Highway Contract and reference to your letter of 28 June 1979 reference number HD-232/BM/G about Claim's Description and Analysis for Jagorawi Highway Project, herewith Bina Marga notifies you that we reject your above letter because it is not signed by your authorize representative for Jagorawi Highway Project as mention in your letter of the 1st May 1978 reference number HD-134/BM/G.

If you still wish to submit your claim please resubmit and sign by your authorize representative for Jagorawi.

By this letter we return your letter of the 28 June 1979 reference number HD-232/BM/G with it's attachment.

Sincerely yours,

DIRECTOR GENERAL OF HIGHWAYS.


(Suryatin Sastroniloyo).-

C.C. :

1. Director of Construction.
2. Jagorawi Project Manager.

Best Available Document

DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA
JALAN PATIMURA No. 20 PERC. 7 TELP. 774165 P.O. BOX 2731
KEBAYORAN BARU - JAKARTA

July 21, 1979.

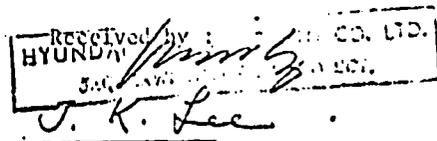
To : HYUNDAI CONSTRUCTION Co.Ltd.
JAGORAWI HIGHWAY PROJECT
BOGOR - INDONESIA.

Subject : Transmittal letter.

Please receive letter Ref.No.: KU.030402
DJ.277/BM/1979

Inclosed :

1. Your letter Ref.No.: HD-232/BM/G dated June 28, 1979.
2. -----



HYUNDAI CONSTRUCTION CO., LTD.

HYUNDAI BUILDING
178, SEJONG-RO, CHONGRO-KU
SEOUL, KOREA

GENERAL CONTRACTOR

CABLE ADDRESS: HYUNDAICO SEUL
TELEX: HYUNDAI 8211-3
TEL: 70-2211~23, 30-3311~23

August 1, 1979

Ref.No.HD-242/SH/G

Directorate General, Bina Marga
Jalan Pattimura No. 20 PERC. 7

Attention: Suryatin Sastronijoyo/
Director General of Highways

Subject: Jagorawi Claim Document

We are writing with regard to your letter of 21st July 1979, returning the claims document submitted with our letter of 28th June 1979 on the grounds that that letter was not signed by our authorised representative. We have to say that we consider the action you have taken has no justification on contractual grounds.

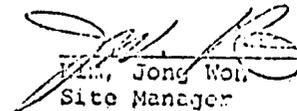
Our letter of 16th July 1979 (Ref HD-G-480) to the Engineer and copied to yourselves made it clear that the claims document was submitted with the approval of our authorised representative. As stated in that letter, we do not accept that all communications in relation to the Project have to be signed by the authorised representative, Mr. J.W. Kim.

However, to save further argument on such a minor point, we hereby re-submit our claims document.

Yours faithfully,

for HYUNDAI CONSTRUCTION CO., LTD.

c.c : Project Manager
Engineer In
Charge
Director of
Construction


Kim, Jong Wok
Site Manager

Encls. : Claims Document

RECEIVED
1979
AMANDA WITNEY
TECHNICAL ENG
J.W. Kim

HYUNDAI CONSTRUCTION CO., LTD.

You say in your letter that you feel it would be in the best interests of all parties if our claims were first discussed at project level. We cannot agree with you about this. The nature and extent of our claims are such that we feel that it is appropriate to submit them straightaway to Bina Marga as we have done and as we are entitled to do under the Contract. Although we do not accept Bina Marga's reason for returning the claims document in the first instance, we consider further argument on the point futile and we have accordingly today re-submitted our claims document to Bina Marga under cover of a letter signed by Mr. J.W. Kim. As we have said before, we are willing to discuss with Bina Marga and its advisers (including yourselves) the contents of the claims document. We consider that the preliminary points you make in your letter about the claims document would best be answered in such discussions. We would, however, mention that we do, of course, have data to substantiate our claims.

Yours faithfully,

for HYUNDAI CONSTRUCTION CO., LTD.

RECEIVED
1 AUG 1977
AMMANN & WHITNEY
TRANS-ASIA-ENG
a Joint Venture

1627



Kim, Jong Won
Site Manager

c.c : Project Manager
Director of Construction

SECTION II ADMINISTRATION

II. 6. . . . CLAIMS (Cont'd)

The Engineer's Preliminary Review of the claim, due to its confidential nature, has not been included.

II. 7. . . . PROJECT FILM PROGRAM

Edited films were reviewed by Bina Marga, the Engineer and Mr. Midgett of the Joint Venture.

The following course of action was agreed. The Engineer will revise and edit the documentary script. Bina Marga will assist the film company in editing and scripting of the instructional film. A time table of 3-months for completion was tentatively agreed.

II. 8. . . . US/AID REQUIREMENTS

US/AID, on the advise of counsel, has reversed their prior decision on financing claims. AID will now allow financing of claims, if awarded, and if the award is in accordance with the Engineer's recommendations. Only the amount of unused funds remaining in the Contractor's letter of credit may be used to finance claims.

Loan funds not committed to the Contractor's letter of credit can not be used to finance claims.

II. 9. . . . STAGE II WORK

There has been no official response to the Engineer's proposal for design and supervision of Stage II work.

SECTION III ... CONTRACTOR'S WORK PROGRESS

III. 1. SECTION B

The one year maintenance period for Section "B" expired on July 31, 1979. A maintenance certificate is being prepared and must be agreed to by the Director General prior to issuance to the Contractor.

III. 2. SECTION A

Construction for Section A was completed on June 30, 1979. Final inspection was held on July 10, 1979 and a letter listing all deficiencies sent to the Contractor. The remedial and miscellaneous work remaining as of July 31, 1979 is listed below :

- a. Planting coverage of the strip sodded area throughout the Ciawi Section has not reached an acceptable level. This is due to the lack of watering and the fact that it is currently the dry season in Indonesia. The Contractor has been notified that part of the payment for strip sodding is being withheld pending fuller coverage of the planted areas.
- b. Removal of temporary access ramps to quarry, vacating quarry site. The Contractor has been notified that the quarry site must be vacated and the temporary access ramps to Jagorawi Highway removed by December 31, 1979.

A draft of the Completion Certificate for Section A has been prepared and submitted to both the Contractor and Bina Marga for review.

The completion date for maintenance purposes, for Baranangsiang Intersection, Bogor Connection between Station 10+000 and 13+400, and Jagorawi Highway between 18+400 to 30+000 was April 19, 1979. The completion date, for maintenance purposes, for the remainder of Section "A" was June 30, 1979.

SECTION III ... CONTRACTOR'S WORK PROGRESS

III. 3. OPENING OF CIAWI SECTION TO PUBLIC.

Bina Marga has indicated that the Ciawi Section will be opened to traffic about the third week in August. Jasa Marga is expected to clean the highway and install the temporary barricades and other items required prior to the opening.

SECTION IV ENGINEERING PROGRESS

IV. 1. SURVEYS

The field work for the final leveling and traversing is expected to be completed sometime in August. After adjustment of the levels and balancing of the traverses the data will be incorporated into the final as-built plans.

All surveying required for determination of final quantities has been completed, but occasional field work may be necessary where disagreement with the Contractor calls for field verification.

IV. 2. AS-BUILT PLANS

The As-Built Plans for Section "A" were completed and a set of prints sent to Bina Marga for review and comments on July 31, 1979.

The final leveling and traversing data will be incorporated upon completion. Bina Marga has not determined the number and type of As-Built reproductions required.

IV. 3. CONSTRUCTION

As previously mentioned, construction of Section "A" has been completed. The traffic signal system has not yet been connected to a PLN power source. Bina Marga is responsible for coordinating the power supply with PLN.

The Ciawi Toll Plaza Office, being constructed by Hutama Karya, is nearly completed.

Two foot trail bridges are being constructed by others at Stations 10+385 and 10+525, Bogor Connection, at essentially the same locations shown on plans previously prepared by the Joint Venture.

Jasa Marga is currently constructing a maintenance road within the Right-of-way in the Ciawi Area to gain better access to

SECTION IV ENGINEERING PROGRESS

IV. 3. CONSTRUCTION (Cont'd)

Jagorawi Highway. It has been observed that the road is being connected to the main highway at the major bridges, instead of construction of separate bridges for their access. This has been discussed with Mr. Hendro Moeljono, Project Manager. It appears that it is Jasa Marga's intent to allow their vehicles to drive opposite to the planned one-way traffic direction at bridge locations. This would create a hazardous condition, especially at night. The Engineer has requested that Bina Marga contact Jasa Marga and inform them of the problem.

Construction of the Jakarta-bound ramps near the Tamar Mini Toll Plaza, being done by Hutama Karya, is still in progress. Paving is in progress for portions of the work.

Construction of 3 pedestrian overcrossings in the Cililitan area are in progress. The work is being done by others. Falsework has been erected and work on the superstructure for these bridges is in progress.

IV. 4. QUANTITIES

Monthly Progress Payment Requests No. 60 and 61 for the months of June and July are included in the appendix of this report.

As instructed by Bina Marga and in accordance with the Special Provisions of the Contract, the Rupiah retention for Section "B" has been reduced to the limit permitted by the Contractor's Bank Guarantee.

Determination of Section "B" final quantities for three items remain unresolved to date. They are clearing and grubbing, borrow excavation and permanent road signs. The quantities in question represent less than two percent of the respective items and final resolution is expected shortly. Once the final quantity balance is settled, adjustment to payments for major items, as outlined in Section 104.02.4 "Changes to Bid Schedule Quantities and Materials", may commence. Actual settlement of the final payment is, however, still months away.

SECTION IV ENGINEERING PROGRESS

IV. 4. QUANTITIES (Cont'd)

The Contractor has agreed to try and settle several change orders previously stymied, and progress is being made towards resolution of the more minor ones. Although there was no acceptance or approval of any contract change order during July, the Contractor's more cooperative attitude should help in the future.

A draft Revision to Amendment 1 (Rupiah Foreign Materials Escalation) was transmitted to Bina Marga. The revision would permit funds to be available for adjusting invoice payments made after devaluation of the Rupiah exchange rate for U.S. dollars.

Invoicing of locally manufactured portland cement and reinforcing steel would also be formalized.

A draft supplemental agreement to Amendment No. 3 was also transmitted to Bina Marga. The agreement authorizes additional approved change orders not currently shown on Amendment No. 3. This is required in order that the Department of the Treasury can make payments. Payments by the Treasury are authorized by Amendment only.

IV. 5. MAINTENANCE

Routine maintenance for Section A has been limited to cutting grass and brooming of the shoulders for the portion open to the public. Vegetation on the side slopes through the cut areas is sparse.

There is increasing evidence of oil spillage, especially in the shoulder areas. The problem of pedestrian traffic has not been solved. Cutting of the fences in both Section A and B to provide access to the highway is still common, with pedestrian traffic near the Bogor Toll Plaza in Section A and near the Jakarta Bypass in Section B being the heaviest.

As previously mentioned in the June Monthly Report, it is hoped that with the construction of the 3 pedestrian bridges in the

SECTION IV ENGINEERING PROGRESS

IV. 5. MAINTENANCE (Cont'd)

Cililitan Area, some relief may be obtainable there.

6. FINAL REPORT

Some progress has been made on the final report, but due to the critical nature of review and evaluation at the Contractor's major 23.8 million dollar claim, the Draft Final Report is not expected to be completed before December 1979. Resolution of the final quantities, major item cost adjustment and estimated final payments should all be incorporated into the Final Report and agreement has not been reached on any of these to date.

Various sections of the Final Report are being progressed, including soils and materials, paving, and earthwork. Work is still in a preliminary stage, and the current manpower emphasis is on determination of final pay quantities and the Contractor's claims.

SECTION V PERSONNEL

V. 1. . . . ENGINEER

Mr. Gerald Takayesu, Deputy Resident Engineer Quantities, arrived in Indonesia on July 19, 1979.

Mr. Jimmy Caldwell, Deputy Resident Engineer, Quality Control left Indonesia on July 31, 1979.

This months Expatriate time expended included 0.7 month termination home leave for Mr. Bernard Strough, 0.9 month for time spent by Mr. George Gross but not invoiced, 1 month each for Mr. Larry Buntan and Mr. Jimmy Caldwell, and 0.43 month for Mr. Gerald Takayesu, a total at 4.03 Expatriate man-months.

A request for additional personnel for evaluation of the Contractor's 23.8 million dollar claim was approved by Bina Marga, and includes time for Mr. William Burroughs, Mr. George Katavolos, Mr. Robert McLaughlin, and a Claims Specialist to be named at a later date. The total authorized time for claim evaluation by the above named specialists is : weeks or 3.5 months.

The following is a list of Expatriate man-months approved and expended :

POSITION/NAME	THRU FEB. 79	THRU JUL. 79	TOTAL	AUTH.	OVER/UNDER
<u>PRINCIPAL :</u>					
G. GROSS	1.07	1.17*	2.24		
H. JOSEY	0.23	-	0.23		
E. EVANSON	0.17	-	<u>0.17</u>		
			2.64	5.0	- 2.36
<u>SPECIALIST :</u>					
TRIPP, HENEL, CARTER	7.63	-	7.63	16.0	- 8.37

* Includes 0.9 months make-up due

SECTION V PERSONNEL

V. 1. . . . ENGINEER (Cont'd)

POSITION/NAME	THRU FEB. 79	THRU JUL 79	TOTAL	AUTH.	OVER/UNDER
<u>ENGINEER IN CHARGE :</u>					
KATAVOLOS, BURROUGHS	41.98	--	41.98		
B. STROUGH	20.87	4.70**	25.57		
L. G. BUNTEN	-	1.03	<u>1.03</u>		
			68.58	76.0	- 7.12
<u>DEPUTY RESIDENT ENGINEER, QUANTITIES</u>					
BURROUGHS, RAMER	32.93	-	32.93		
L. G. BUNTEN	20.13	3.97	24.10		
G. TAKAYESU	-	0.42	<u>0.42</u>		
			57.45	64.0	- 6.55
<u>DEPUTY RESIDENT ENGINEER, Q.C.</u>					
HALTON, BECK, KLEIN, MOLNAR	55.77	-	55.77		
J. CALDWELL	5.00	5.00	<u>10.00</u>		
			65.77	63.0	- 2.77
<u>SENIOR BRIDGE ENG.</u>					
TARZIAN, GORDON	12.74	-	12.74		
R. MCLAUGHLIN	36.12	0.97*	<u>37.09</u>		
			49.83	45.5	- 4.33
<u>SENIOR MATERIALS ENG.</u>					
STONE, KLEIN, BAMBARA	38.32	-	38.32	40.0	- 1.68
<u>SENIOR PAVEMENT ENG.</u>					
PRESTON, CALDWELL, PALKA	45.95	-	45.95		
A. DEGRAFF	3.73	1.90	<u>5.63</u>		
			51.58	48.0	- 3.58

* Make-up due

** Includes 0.70 months for termination home leave.

35

SECTION V PERSONNEL

V. 1. . . . ENGINEER (Cont'd)

<u>POSITION/NAME</u>	<u>THRU FEB. 79</u>	<u>THRU JUL. 79</u>	<u>TOTAL</u>	<u>AUTH.</u>	<u>OVER/UNDER</u>
<u>CHIEF OF SURVEY</u>					
PORTER, GOON, MORGAN	27.04	-	25.04	25.00	- 0.04
<u>GENERAL HIGHWAY CONSTRUCTION</u>					
PALKA	6.50	-	6.50	13.0	- 6.50
<u>SENIOR CONSTR. ENG.</u>					
COOPER, BELL	31.90	-	31.90	28.0	- 3.90
<u>SENIOR DESIGN ENG. HIGHWAY</u>					
YALE, ALLRED, DEGRAFF, ZICKAFOOS	38.49	-	38.49		
G. TAKAYESU	1.73	3.20	6.93		
TOTAL			45.42	26.0	-19.42
<u>SENIOR DESIGN ENG. DRAINAGE</u>					
LOPEZ, SUTTON	13.23	-	13.23	28.0	-14.77
<u>SOILS ENGINEER</u>					
PALKA	13.47	-	13.47	12.0	- 1.47
<u>MAINTIENANCE ENGINEER</u>					
KURUCZ	0.30	0.97	1.27	24.0	-22.73

SECTION V PERSONNEL

V. 1. . . . ENGINEER (Cont'd)

<u>POSITION/NAME</u>	<u>THRU FEB. 79</u>	<u>THRU JUL. 79</u>	<u>TOTAL</u>	<u>AUTH.</u>	<u>OVER/UNDER</u>
<u>BRIDGE DESIGN ENG.</u>					
MANDATO	0.97	-	0.97		- 0.97
<u>TOTAL THRU JULY 1979</u>			479.60	513.5	- 33.90

ESTIMATED MAN-MONTHS REQUIRED TO COMPLETE BY JUNE 30, 1980 (END OF SECTION A MAINTENANCE PERIOD) :

<u>PRINCIPAL</u>	:	1 month
<u>SPECIALIST</u>	:	4 months
<u>ENGINEER IN CHARGE</u>	:	
L.BUNTEN (QUANTITIES, CLAIMS, FINAL REPORT, COST, ADJUSTMENTS, MAINTENANCE PGM, HANDOVER)		7 months
L.BUNTEN (ONE WEEK PER MONTH DURING REMAINDER OF MAINTENANCE GUARANTEE PERIOD)		

ESTIMATED MAN-MONTHS REQUIRED TO COMPLETE BY JUNE 30, 1980 (END OF SECTION A MAINTENANCE PERIOD) :

L.BUNTEN (TERMINATION HOME PEAVE)		2 months
<u>DEPUTY RESIDENT ENGINEER, QUANTITIES</u>	:	
G.TAKAYESU (QUANTITIES, CLAIMS, COST ADJUSTMENTS, FINAL REPORT)		7 months
<u>DEPUTY RESIDENT ENGINEER, QUALITY CONTROL</u>	:	
J.CALDWELL (TERMINATION HOME LEAVE)		1 month
<u>MAINTENANCE ENGINEER</u>	:	
----- (MAINTENANCE OPERATIONS & MAINTENANCE PROGRAM)		5 months
----- (MAINTENANCE EQUIPMENT SPECIALIST)		5 months
ESTIMATED M-M REQUIRED		33 months
AVAILABLE		33.90 mo.
EXCESS		0.90 mo.

NOTE : VARIOUS LETTER ADJUSTMENTS IN MAN-MONTH AUTHORIZATIONS HAVE BEEN APPROVED, INCLUDING BALANCING OF THE DRAINAGE DESIGN ENGINEER EXCESS TIME AGAINST THE HIGHWAY DESIGN ENGINEER OVERRUN, BALANCING OF EXCESS SENIOR PAVEMENT ENGINEER TIME AGAINST D.R.E. QUALITY CONTROL OVERRUNS, AND CONTINGENCY USE OF EXCESS GENERAL HIGHWAY TIME AGAINST VARIOUS OVERRUNS.

SECTION V PERSONNEL

V 1. ENGINEER (Cont'c)

The Indonesian local staff employed by the Engineer to assist in the performance of the work are, by category, as follows :

COUNTERPARTS (Bina Marga)

<u>N a m e</u>	<u>Position</u>	<u>No.</u>	<u>**MM Appr'd by Contr.</u>	<u>MM Expended to date</u>	<u>*Est Total MM Req. to Complete</u>
Mr. Wazir	DRE (QC)	1	65	60	62
Mr. Hudaya	DRE (Q)	1	63	55	63
-	SHE-Contr	-	62.9	48	48
Mr. Moeljoto	SHE Paving	1	60	60	60
Mr. Soepomo	SHE Materials	1	62	61	62
-	SHE Bridge	-	34	34	34
Mr. Saksono	Chief of Surv	1	54	46	49
-	SHE Design	-	18	0	0
Total		5	418.9	364	378

ADMINISTRATION.

<u>P o s i t i o n</u>	<u>No.</u>	<u>**MM Appr'd by Contr.</u>	<u>MM Expended to date</u>	<u>Est.Total MM Req. to complete</u>
Administrative Manager	1	75	63.3	75
Secretary	1	64.	52	64
Clerk/Typist	1	144.6	127	145
Accountant	1	62.5	53	64
Book Keeper	1	136.9	120	130
Mechanic	2	113.4	103	113
Security Guard	2	259.6	214	234
Office Janitor	1	108.4	101	110
Gardener	1	48	48	58
Total	11	1012.4	881.3	993

* Based on present estimated time required to complete the project.

** Includes time allotted under original contract, Amendments No.1,2,3 and 4.

SECTION V PERSONNEL

V 1. . . . ENGINEER (Cont'd)

OFFICE PERSONNEL (Technical)

<u>Position</u>	<u>Q'ty</u>	<u>**MM Appr'd by Contract</u>	<u>MM Expended to date</u>	<u>* Est. Total MM Req. to complete</u>
Office Engineer	1	64.6	54.9	64.6
Drainage Engineer	1	41.1	39.1	41.1
Highway Engineer	1	47.0	47.0	47.0
Highway Technician	1	110.0	127.8	110.0
Draftsman	6	204.8	179.4	204.8
	<u>10</u>	<u>467.5</u>	<u>448.2</u>	<u>467.5</u>

FIELD PERSONNEL

<u>Position</u>	<u>Q'ty</u>	<u>**MM Appr'd by Contract</u>	<u>MM Expended to date</u>	<u>* Est. Total MM Req. to complete</u>
Soil/Materials Engineer	1	43.3	37.3	43.3
Party Chief	2	109.1	83.1	109.1
Instrumentman	2	166.5	132.8	166.5
Chainman	3	173.5	171.5	173.5
Rodman	2	176.3	152.3	176.3
Drainage Technician	2	67.0	65	67.0
Highway Inspector	-	119.3	86.3	119.3
Bridge Inspector	2	307.6	363.6	367.6
Plant Inspector	1	289.3	254.3	289.3
Material Inspector	3	431.5	424.5	431.5
Pavement Inspector	1	154.4	130.4	154.4
Laboratory Technician	1	385.6	364.9	385.6
Laboratory Aide	1	219.9	200.4	219.9
Material Aide	-	606.5	603.4	606.5
Scaleman	-	149.6	112.9	149.6
Survey Aide	-	38.7	38.7	38.7
Driller	-	55.9	55.9	55.9
Drivers	6	1166.7	1056.8	1166.7
<u>Total</u>	<u>27</u>	<u>4660.7</u>	<u>4334.1</u>	<u>4660.7</u>
<u>GRAND TOTAL</u>	<u>53</u>	<u>6559.5</u>	<u>6027.6</u>	<u>6559.7</u>

SECTION V PERSONNEL

V. 2. . . . CONTRACTOR

PERSONNEL ON THE JOB (July 25, 1979)

1. OFFICE

	<u>Korean</u>	<u>Indonesian</u>	<u>Total</u>	<u>Increase/Decrease</u>
A. Administration				
<u>Catagories</u>				
1. Managing Director	-	-	-	
2. Project Manager	1	-	1	
3. Chief Administration	-	-	-	-1
4. Contract Administration	1	-	1	
5. Cost Analysis	-	-	-	
6. Accountants	2	-	2	
7. General Affairs	2	-	2	-1
8. Materials & Custom Clearance	3	2	5	-1
9. Labour & Payroll	1	2	3	-1
10. Typist	-	1	1	-1
11. Clerk	-	-	-	-1
12. Cook	1	12	13	-5

B. TECHNICAL

1. Chief Office Engineer, Quantities	1	-	1	
2. Office Engineer	1	3	4	-2
T o t a l	13	20	33	-13

2. EQUIPMENT MAINTENANCE

1. Superintendent for Maintenance	1	-	1	
2. Assistant Superintendent for Maintenance	-	-	-	
3. Spare Parts Checker	1	3	4	
4. Senior Mechanic	2	-	2	
5. Junior Mechanic	4	50	54	-10
T o t a l	8	53	61	-10

SECTION V PERSONNEL

V. 2. . . . CONTRACTOR (Cont'd)

PERSONNEL ON THE JOB (Cont'd)

3. FIELD

<u>Catagories</u>	<u>Korean</u>	<u>Indonesian</u>	<u>Total</u>	<u>Increase/Decrease</u>
1. Superintendent for Earth	-	-	-	
2. Field Engineer for Q.C.	-	-	-	
3. Assistant Superintendent for Earth Work	-	-	-	
4. Assistant Superintendent Structural Work	-	-	-	
5. Superint. for Misc. Work	-	-	-	
6. Ass. Superint. for Misc. Work	-	-	-	
7. Foreman for Earthwork	-	-	-	
8. Foreman for Structuralwork	-	-	-	
9. Foreman for Misc. Work	-	1	1	- 3
10. Superint. for Pavingwork	-	-	-	
11. Assistant Superintendent for Pavingwork	-	-	-	
12. Assistant Superintendent for Plant & Crusher	-	-	-	
13. Foreman for Pavingwork	-	-	-	
14. Superintendent for Final Earth & Base Course	-	-	-	
15. Assistant Superintend at for Final & Base Course	-	-	-	
16. Foreman for Final and Base Course	-	-	-	
17. Laboratory	-	-	-	
18. Surveyor	-	3	3	
19. Field Clerk Checker	-	-	-	
20. Skill Labour	-	6	6	
21. Carpenter	-	4	4	- 1
22. Heavy Equipment Operator	-	5	5	- 1
23. Dump Truck Driver	-	6	6	+ 4
24. Light Vehicle Driver	-	10	10	
25. Common Labour	-	72	72	-123
26. Other	-	17	17	- 3
27. Superintendent for Plant and Crusher	-	-	-	
T o t a l	-	124	124	-127
Grand Total	21	197	218	-150

SECTION VI APPENDIX

VI. 1. INCOMING CORRESPONDENCE

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
1. Hyundai	Request for Monthly Rupiah Progress Payment No. 59 Jagorawi Highway Project.	July 3, 1979
2. Hyundai	Submittal of calculation data for the earthwork quantity of Section B	July 3, 1979
3. Hyundai	The completion certificate of Section A.	July 3, 1979
4. Hyundai	3" Aggregate Fill, additional quantity.	July 3, 1979
5. TA Manila	Invoice No. AW/TA 44-059 for Bina Marga Jagorawi Highway Basic Contract.	July 3, 1979
6. TA Manila	Invoice No. AW/TA 44-059 for Bina Marga Jagorawi Highway Basic Contract.	July 3, 1979
7. Bina Marga	Mr. Caldwell's extension time in Indonesia.	July 3, 1979
8. Bina Marga	Reinstatement of Counterpart Paving Engineer Mr. Moeljoto.	July 3, 1979
9. Bina Marga	Delivery of 2 (Two) Engineer's Houses at Baranangsiang to Bina Marga.	July 3, 1979
10. Bina Marga	Transmittal of the approved Engineer's Rupiah Invoice No. 61/1979.	July 4, 1979
11. Hyundai	Submittal of cost breakdown for Cost adjustment of grease and motor oil.	July 5, 1979
12. Hyundai	Submittal of the additional supportive data for additional payment due to the early opening of Section B.	July 5, 1979
13. Hyundai	Locally purchased material escalation.	July 5, 1979
14. Hyundai	Comparison of prices of local cement and imported cement.	July 7, 1979
15. Bina Marga	Approval for Mr. Gerald Takayesu as DRE Quantities.	July 9, 1979
16. Bina Marga	Contractor's letter of claim for Section A and B.	July 9, 1979
17. Hyundai	Submittal of the 11th Invoice for local labor escalation reimbursement.	July 10, 1979
18. Hyundai	Submittal of cost proposal for barricade construction.	July 10, 1979
19. Bina Marga	Contractor Rupiah Invoice No. 58 Contract Amendment No. 1, Suppl. 1, Pay Estimate No. 1 Suppl. 1/1 calculation for Rupiah Devaluation during Invoice No. 8 thru Invoice No. 10-1. Amendment No. 1/10-3.	July 13, 1979

SECTION VI APPENDIX

VI. 1. INCOMING CORRESPONDENCE

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
	Amendment No. 1 The 2nd Invoice for Contract Amendment No. 2. The SPP No. P/01/JR-SPP/VII/79.	July 13, 1979
20. Hyundai	Our claim for US Dollar 23.8 million Contractor's Representative.	July 16, 1979
21. Hyundai	Submittal of Our Cost Proposal for P.C. Shop facilities and Instrument.	
22. Hyundai	Submittal of the 12th Invoice for Local Labor Escalation Reimbursement.	July 16, 1979
23. Afia	Automobile Insurance 18 vehicles.	July 16, 1979
24. Hyundai	Turn Over of one ware-house included in Section A.	July 17, 1979
25. Hyundai	Notice of Site Manager's business trip.	July 17, 1979
26. Hyundai	Submittal of the list of dead persons died while constructing Jagorawi.	July 18, 1979
27. Hyundai	Submittal of the warranty of Traffic Signal System.	July 18, 1979
28. TA/Manila	Invoice No. AW/TA 44-061 for Bina Marga Jagorawi Highway Project.	July 18, 1979
29. Hyundai	Request for Monthly Dollar Progress Pay- ment No. 60 Jagorawi Highway Project.	July 20, 1979
30. Hyundai	Request for Monthly Rupiah Progress Pay- ment No. 60 Jagorawi Highway Project.	July 20, 1979
31. Hyundai	Monthly Progress Report No. 62.	
32. Hyundai	Submittal of the list of equipment for re-exportation.	July 24, 1979
33. Hyundai	Submittal of cost proposal for temporary permanent signs in Section A and B.	July 24, 1979
34. Hyundai	Confirmation of total payments for work completed.	July 24, 1979
35. Hyundai	Submittal of sub-contractor's second quotation for the revision of Ciawi signal system.	July 25, 1979
36. Bina Marga	1. Contractor's Dollar and Rupiah In- voice No. 59. The SPP No. 03/JR/SPP/ VII/79. 2. Engineer's Rupiah Invoice No. 62/79. The SPP No. P.54/JR-SPP/VII/79	July 25, 1979
37. Bina Marga	The Contractor's claim for Section A and B.	July 26, 1979

SECTION VI APPENDIX

VI. 1. . . . INCOMING CORRESPONDENCE

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
38. Hyundai	Return of CCO No. 90, 105, 114, 116.	July 26, 1979
39. PFN	Documentary.	July 26, 1979
40. Hyundai	Submittal of the list for the surplus materials.	July 27, 1979
41. Hyundai	Request for the payment of ATB at a reduced price.	July 27, 1979
42. Hyundai	Return of CCO No. 90, Suppl. 1 (Miscellaneous Extra Work Section B)	July 27, 1979
43. Hyundai	Submittal of the list of equipment for re-exportation.	July 30, 1979
44. Hyundai	The calculation of P.C. Strand Quantity for the payment of Amendment No. 1	July 30, 1979
45. Hyundai	The withdrawal of generators and protection of property at Gunung Putri.	July 31, 1979
46. Hyundai	Burned out signal lamps and bent signal arm at the Baranangsiang Intersection	July 31, 1979
47. Hyundai	The issuance of completion certificate for Section A.	July 31, 1979

SECTION VI APPENDIX

VI. 2. . . . OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
1. Hyundai	Claim for Ciawi and Bogor Toll Plazas, Ciawi and Bogor Intersection.	July 2, 1979
2. Hyundai	Your Request for Completion Certificate Section A.	July 2, 1979
3. Bina Marga	Debiting of Joint Venture Account.	July 2, 1979
4. Afia	Insurance Policy No. 000207 (F).	July 3, 1979
5. Motorola	Motorola Radio Serial No. PC 3169.	July 3, 1979
6. Bina Marga	Handover of Two Engineer's House at Baranangsiang.	July 3, 1979
7. Bina Marga	Contractor's letter of claim for Section B.	July 4, 1979
8. Hyundai	Contractor's Representative.	July 4, 1979
9. AW/NYC	Transmittal of Contractor's Claim.	July 4, 1979
10. KBN/Jkt	Surat Kuasa.	July 5, 1979
11. Bina Marga	Deputy Resident Engineer, Quantities : Mr. Gerald Takayesu.	July 5, 1979
12. Bina Marga	Terminating Expatriate Leave Calculations.	July 5, 1979
13. Citibank	Check.	July 6, 1979
14. JV/NYC	Weekly Administration Report No. 227.	July 7, 1979
15. Bina Marga	Engineer's Rupiah Invoice No. 62/1978.	July 9, 1979
16. Hyundai	Locally Purchased Fuel, Sand and Lime Escalation.	July 9, 1979
17. Bina Marga	Submittal of Contractor's Dollar and Rupiah Invoice No. 58 (April 26, 1979 thru May 25, 1979).	July 9, 1979
18. Bina Marga	Bina Marga's Release of Additional Retention (Rupiahs) due to change order increases in contract value.	July 10, 1979
19. Bina Marga	Request for approval - Pay increase for Counterparts and Local Staff and cost living increase for Expatriates.	July 10, 1979
20. Bina Marga	Minutes of the meeting of July 17, 1979.	July 10, 1979
21. Hyundai	Local Labor Escalation.	July 10, 1979
22. Hyundai	Bina Marga Memorial For Workmen Who Died While Constructing Jagorawi.	July 10, 1979
23. JV/NYC	Weekly Administration Report No. 228.	July 14, 1979
24. Hyundai	Bina Marga's Approval of Outstanding Rupiah Invoices.	July 16, 1979
25. Bina Marga	Submittal of Engineer's Dollar Invoice No. 45 (Months of March, April and May 1979)	July 17, 1979
26. Bina Marga	Preliminary Review of Contractor's Claim for Section A and B with Recommendations.	July 17, 1979

SECTION VI APPENDIX

VI. 2. . . . OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
27. Bina Marga	Submittal of Drafts Supplemental Agreement to Amendment No. 3.	July 18, 1979
28. Hyundai	Shipping Report, Second Quarter of 1979.	July 19, 1979
29. Hyundai	Your letter clarifying the position of Contractor's Representatives.	July 19, 1979
30. AW/NYC	Summary of Dollar Reimbursable.	July 19, 1979
31. Bina Marga	Transmittal of the Contractor's Personnel Killed While Constructing Jagorawi.	July 19, 1979
32. Bina Marga	Contractor's Hand-Over of Warehouse.	July 19, 1979
33. Bina Marga	Submittal of Draft Supplemental Agreement to Amendment No. 3.	July 20, 1979
34. AW/NYC	Transmittal of Joint Venture Monthly Accounting Reports.	July 21, 1979
35. JV/NYC	Weekly Administration Report No. 229.	July 21, 1979
36. Hyundai	Transmittal of CCO's 90, 105, 114 and 116.	July 23, 1979
37. Bina Marga	Draft Supplemental Agreement to Contract Amendment No. 3	July 23, 1979
38. John M.G.	Promotion.	July 25, 1979
39. KBN/ Jkt	Surat Kuasa.	July 25, 1979
40. Hyundai	Final Earthwork Quantities For Section B.	July 25, 1979
41. Hyundai	1. Approved Monthly Progress Payment: No. 59. 2. SPP No. PO3/JR-SPP/VII/79	July 25, 1979
32. Hyundai	Transmittal of CCO 90, Suppl. No. 1 (Misc. Extra Work Section B).	July 26, 1979
33. Bina Marga	Copy of Hyundai letter to the Directorate General Bina Marga (Ref. HD-237/BM/G, dated July 24, 1979) Requesting Bina Marga confirmation of "Total Payments for work completed".	July 26, 1979
34. Hyundai	Approval of Equipment Export.	July 26, 1979
35. Bina Marga	Transmittal of Draft Revision to Amendment No. 1.	July 27, 1979
36. Bina Marga	Request for Approval - Increase in Visiting Expatriate Per Diem Allowance.	July 27, 1979
37. Sukandi	Application letter.	July 27, 1979
38. Bina Marga	Transmittal of CCO's No. 90, Suppl. 1, No. 114 and No. 116.	July 28, 1979
39. Hyundai	Burned out signal lamps and bent signal arm at the Baranangsiang Intersection.	July 28, 1979

SECTION VI APPENDIX

VI. 2. . . . OUTGOING CORR SPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
40. Hyundai	Approval of Pay Estimate No. 60 - Deferred Pending Submittal of 2nd Quarter Shipping Report.	July 28, 1979
41. JV/NYC	Weekly Administration Report No. 230.	July 28, 1979
42. Everseal	Everseal Invoice No. Ex-549 dated October 31, 1978.	July 30, 1979
43. Bina Marga	Request for Approval - William F. Henel as Claim Review Specialist.	July 31, 1979
44. Bina Marga	As-built Plan Checkprints For Section "A".	July 31, 1979
45. Bina Marga	Transmittal of CCO 105.	July 31, 1979
46. Bina Marga	Letter from Hyundai on withdrawal of generators and protection of property at Gunung Putri (Hyundai Ref. HD-241/BM/G).	July 31, 1979
47. Bina Marga	Return of Two Gladiato: Truck - one with Radio.	July 31, 1979
48. Bina Marga	Contractor's Manifest to export one Komatsu Grader and Two Water Pumps.	July 31, 1979
49. Bina Marga	Transmittal of June Supervision Report.	July 31, 1979
50. Hyundai	Hyundai's submission of surplus material list (your ref. HD-239/BM/G).	July 31, 1979
51. Hyundai	Payments for Escalation of Additional P.C. Strands Requested for Invoicing on Amendment No. 1.	July 31, 1979

CONTRACTOR EQUIPMENT/MATERIAL ON THE SITE

(July 25th, 1979)

EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
Bulldozer HD21B	FIAT ALLIS	U.S.A.	U.S.A	1	New (1:B)
Bulldozer HD16B	FIAT ALLIS	U.S.A	U.S.A	13	New
Bulldozer D-8	CATERPILLAR	U.S.A	GUAM	1	Used
Bulldozer D50A	KOMATSU	JAPAN	R.O.K.	3	Used
Loader 645B	FIAT ALLIS	U.S.A.	CIBINONG	1	New
Loader 645B	FIAT ALLIS	U.S.A	U.S.A	10	New
Loader CAT-950	CATERPILLAR	U.S.A	THAILAND	2	New
Loader CAT-950	CATERPILLAR	U.S.A.	GUAM	1	New
Motor Grader M-150	FIAT ALLIS	U.S.A	SAUDI A	1	Used
Motor Grader M-100	FIAT ALLIS	U.S.A	U.S.A	9	New
Motor Grader GD-37	KOMATSU	JAPAN	SAUDI A	2	New
Motor Grader 12A	CATER PILLAR	U.S.A	SAUDI A	1	Used
Motor Grader 13K	CATERPILLAR	U.S.A	SAUDI A	1	Used
Compactor 824B	CATERPILLAR	U.S.A	R.O.K.	1	Used
Compactor 815	CATERPILLAR	U.S.A	U.S.A	2	New
Vib. Roller CA25PD	DYNAPAC	SWEDEN	SWEDEN	2	New
Double Vib. Roller	MIKASA	JAPAN	JAPAN	3	New
Double Vib. Roller	TAIKYOKU	JAPAN	JAPAN	2	New
Vib. Roller CH47	DYNAPAC	SWEDEN	SWEDEN	3	New
Vib. Roller CH44	DYNAPAC	SWEDEN	THAILAND	2	Used
Farm Tractor F-5000	FORD	U.S.A	U.S.A	4	New
Farm Tractor F-5000	FORD	U.S.A	THAILAND	3	Used
Tandem Roller TH-12D	GALION	U.S.A	U.S.A	3	New
Tandem Roller WT62, 82	WATANABE	JAPAN	THAILAND	2	New
Tire Roller KR-20	KAWASAKI	JAPAN	JAPAN	1	New
Tire Roller KR-30A	KAWASAKI	JAPAN	JAPAN	2	New
Tire Roller C550A	HYSTER	U.S.A	U.S.A	4	New
Tire Roller WP-15	WATANABE	JAPAN	THAILAND	1	Used
Tire Roller KR-15B	KAWASAKI	JAPAN	SAUDI A	4	Used
AP Plant	HYUNDAI	KOREA	KOREA	1	New
AP Plant KA-50	BARBER GREENE	BRAZIL	BRAZIL	1	New
AP Finisher SA-41	BARBER GREENE	ENGLAND	ENGLAND	1	New
AP Finisher SA-35	BARBER GREENE	ENGLAND	THAILAND	3	Used

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<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
AP Curb Machine NC-15A	NIIGATA	JAPAN	JAPAN	1	New
Power Broom W/15HP Eng.	LITTLE GIANT	HYUNDAI	HYUNDAI	2	New
Power Broom W/15HP Eng.	HYUNDAI	U.S.A	THAILAND	1	Used
Agg.Spreader Box NS45P	NIIGATA	JAPAN	THAILAND	1	Used
Agg.Spreader Box NS45P	NIIGATA	JAPAN	R.O.K.	3	Used
Chip Spreader Box	WISCONSIN	U.S.A.	U.S.A.	1	New
Crusher Conc.2000#/Hr.	HYUNDAI	KOREA	KOREA	1	New
Crusher Concrete	TELSMITH	U.S.A	U.S.A	2	New
Crusher Concrete	KURIMOTO	THAILAND	THAILAND	1	Used (1:D)
Crusher Jaw	WILLIAMS	THAILAND	THAILAND	1	New
Crusher Roll	HYUNDAI	KOREA	R.O.K.	1	New
Cruhsrer Jaw	OTSUKA	JAPAN	JAPAN	1	New
Excavator CAT225	CATERPILLAR	U.S.A	U.S.A	2	New
Excavator MC-100	POCLAIN	FRANCE	FRANCE	1	New
Back Hoe/Tractor 755	FORD	U.S.A	CIBINONG	2	Used
Crane 70# 670TC	P & H	U.S.A	U.S.A	1	New
Crane 40# HC78BC	LINK BELT	JAPAN	JAPAN	1	New
Crane 40# 440-SP	KOEHRING	U.S.A	U.S.A	1	New
Crane 32# 430TC	P & H	JAPAN	THAILAND	1	Used
Crane 25# 2420	AMERICAN HOIST	U.S.A	U.S.A	1	Used
Excavator UH30	HITACHI	JAPAN	JAPAN	2	New
Pile Hammer K-25	KOBE	JAPAN	JAPAN	1	New
Batch Plant ND-5YD	JOHNSON	U.S.A	U.S.A	3	New
Truck Mixer NT0350B	ISUZU	JAPAN	JAPAN	5	New
Conc.Mixer 0.4M ³	SUMITOMO	JAPAN	JAPAN	2	New
Conc.Mixer 0.2M ³	YANMAR	JAPAN	THAILAND	2	Used (2:D)
Sheep Foot Roller Single	HYUNDAI	KOREA	R.O.K.	1	Used
Fork Lift truck 5 #	T.C.M.	JAPAN	JAPAN	1	New
Fork Lift truck 3.5 #	KOMATSU	JAPAN	JAPAN	1	New
Winch 2 #	WILLIAMS	THAILAND	SINGAPORE	2	New
Generator 500KVA	A.E.G.	GERMANY	SINGAPORE	2	New
Generator 300KVA	KOMATSU	JAPAN	JAPAN	2	New
Generator 175KVA	FIAT ALLIS	U.S.A	U.S.A	3	New
Generator 135KVA	DEUTZ	GERMANY	THAILAND	1	Used (1:D)
Generator 125KVA	CATERPILLAR	U.S.A	U.S.A	1	New
Generator 90KVA	ALLIS CHALMERS	U.S.A	U.S.A	1	New
Generator 80KVA	CUMMINS	U.S.A	U.S.A	1	New
Generator 62KVA	NISSAN	JAPAN	THAILAND	3	Used (3:D)
Generator 80KVA	ISUZU	JAPAN	THAILAND	1	Used
Generator 45KVA	NISSAN	JAPAN	THAILAND	2	Used (2:D)
Generator 60KVA	FORD	U.S.A	THAILAND	1	Used
Generator 34KVA	BUKH	ENGLAND	U.K.	1	New
Generator 30KVA	G.M.	U.S.A	U.S.A	1	New
Generator 10KVA	YANMAR	JAPAN	JAPAN	1	New

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Qty</u>	<u>Condition</u>
Air compressor PDS-370	HOKUETSU	JAPAN	JAPAN	1	New
Air compressor PDR-370	HOKUETSU	JAPAN	SAUDI A	1	Used
Air Compressor 185 CFM	JOY	U.S.A	U.S.A	2	New
Air Compressor RV-120	NITSUI SEIKI	JAPAN	NEW GUINEA	1	Used
Air compressor 175 CFM	HOKUETSU	JAPAN	JAPAN	2	Used
Air compressor 7.5 CFM	MITSUBISHI	JAPAN	THAILAND	2	Used
Air compressor 7.5 CFM	SONCO & IHS	GERMANY	THAILAND	2	Used
Air compressor 63 CFM	MEIJI	JAPAN	JAPAN	1	New
Air compressor 63 CFM	MEIJI	JAPAN	THAILAND	1	New
Welding machine G-203	HOBART	U.S.A	U.S.A	5	New (2:0)
Welding machine/engine	DENYO	JAPAN	INDONESIA	2	New
Stripping Machine 8000	WISCONSIN	U.S.A	THAILAND	1	Used
Conc.Vibrator ALN5HP	KOEHRING	U.S.A	U.S.A	20	New (20:D)
Conc.Vibrator TAB/3/753HP	WACKER	GERMANY	INDONESIA	14	New (13:D)
Conc.Vibrator EY/18-2D 7HP	MIKASA	JAPAN	JAPAN	5	New (5:D)
Soil Compactor BS50K	WACKER	GERMANY	INDONESIA	35	New (23:D)
Soil Compactor C0106	DYNAPAC	SWEDEN	SWEDEN	11	New (11:D)
Soil Compactor CM-13	DYNAPAC	SWEDEN	SWEDEN	19	New (19:D)
Water Pump Ø 8"		GERMANY	SINGAPORE	3	New (1:D)
Water Pump Ø 6"	YANMAR	JAPAN	JAPAN	6	New (4:D)
Water Pump Ø 4"	ROBIN	JAPAN	JAPAN	10	New (9:D)
Water Pump Ø4" Y	YANMAR	JAPAN	JAPAN	4	New (3:D)
Clam shell bucket	HYUNDAI	KOREA	R.O.K.	2	Used
Dragline bucket	HYUNDAI	KOREA	R.O.K.	1	Used
Dump truck 16F NV112KL	FUSO	JAPAN	SAUDI A	9	Used
Dump truck 16F ZM101E	HINO	JAPAN	JAPAN	6	New
Dump Truck 16F FV112JD	FUSO	JAPAN	JAPAN	16	New (1:D)
Dump truck 8F KB-113	HINO	JAPAN	JAPAN	68	New (15:D)
Dump truck 8F TA-14	HINO	JAPAN	GUAH	8	Used (5:D)
Trailer & Tractor	WHITE	U.S.A	U.S.A	1	New
Trailer & Tractor	HINO	JAPAN	THAILAND	1	Used
Trailer & Tractor	HINO	JAPAN	CIBINONG	1	Used
Tractor	HINO	JAPAN	CIBINONG	2	Used
Jeep Bronco	FORD	U.S.A	U.S.A	5	New (3:D)
Jeep Land cruiser	TOYOTA	JAPAN	INDONESIA	7	New
Wagen Jeep Ambulance	TOYOTA	JAPAN	INDONESIA	1	Used (D:1)
Jeep Landrover	LANDROVER	ENGLAND	THAILAND	3	Used (3:D)
Pick Up Hi Lux	TOYOTA	JAPAN	SINGAPORE	11	New
Pick Up	DATSUN	JAPAN	INDONESIA	8	Used
Pick Up Hi Ace	TOYOTA	JAPAN	JAPAN	2	New (1:D)
Pick Up D-300	DODGE	U.S.A	U.S.A	5	New (2:D)
Micro Bus	TOYOTA	JAPAN	SINGAPORE	2	New

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
Sedan Winston	HOLDEN	AUSTRALIA	INDONESIA	1	New
Sedan 160G	DATSUN	JAPAN	INDONESIA	2	New
Sedan Corona	TOYOTA	JAPAN	INDONESIA	3	New
Motor Cycle TS-100	SUZUKI	JAPAN	INDONESIA	3	New
Fuel Tank Truck	NISSAN	JAPAN	THAILAND	1	Used (1:D)
Fuel Tank Truck	I.H.	U.S.A	KOREA	2	Used (2:D)

Note : A. Deadlined for parts
 B. Deadlined for repair
 C. Operational set idle
 D. Unserviceable(Salvage only)

STATUS OF MATERIAL ON HAND

26th June, 1979 to 25th July 1979

<u>1. Material from Korea</u>	<u>Q'ty Delivered</u>		<u>Q'ty in Ware-house</u>
Re-bar deformed	6,472	Ton	27.916 Ton
Galvanized Barbed Wire	654,400	M	2,011.50 M
<u>2. Material from Singapore</u>			
Asphalt Cement	45,560.881	Ton	471.60 Ton
Galvanized Steel Fence Post	21,600	Pcs.	10 Pcs.
<u>3. Material from Japan</u>			
P.C. Strand Wire Ø1/2"	890.859	Ton	18.903 Ton
<u>4. Material From Thailand</u>			
RC & MC	600	Ton	97 Ton
RC - 2K	380	Ton	66.80 Ton
<u>5. Material from U.S.A.</u>			
H - Pile	4,924.40	Ton	4.228 Ton
Paint, ready mixed	23,070.848	Ltrs.	2,237.62 Ltrs.
<u>6. Local Material</u>			
Re-bar deformed	553.905	Ton	16.401 Ton

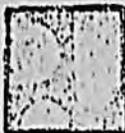
WORK PROGRESS REPORT NO. 63

(As of July, 1979)

<u>Work Item</u>	<u>Section A</u>		<u>Section B</u>	
	<u>Work Done</u>	<u>%</u>	<u>Work Done</u>	<u>%</u>
Mobilization	3/3	100.00	3/3	100.00
Clearing & Grubbing	179.09 Hec.	100.00	210.11 Hec.	
Unclassified Excavation	1,219,050 Cu.M	100.00	2,448,908 Cu.M	100.00
Muck Excavation	48,662.03 Cu.M	100.00	17,533.18 Cu.M	100.00
Borrow Excavation	715,590 Cu.M	100.00	980,000 Cu.M	100.00
Ditch Excavation	27,672.43 Cu.M	100.00	21,046 Cu.M	100.00
Channel Excavation	8,132.90 Cu.M	100.00	20,090 Cu.M	100.00
Structure Excavation	51,953 Cu.M	100.00	106,014 Cu.M	100.00
Bridge Excavation	17,139.74 Cu.M	100.00	11,382 Cu.M	100.00
A. T. B.	221,242.39 Ton	100.00	326,417.20 Ton	100.00
Subgrade Modification	207.07 M2	100.00	-	-
Hot Bit Conc. Pavement	77,945.28 Ton	100.00	107,809.02 Ton	100.00
Asphalt Cement	17,229.83 Ton	100.00	23,846.93 Ton	100.00
Tack Coat	143 Ton	100.00	206.98 Ton	100.00
Prime Coat	4.03 Ton	100.00	10.32 Ton	100.00
Seal Coat	205,403.73 Ton	100.00	300,308.83 Ton	100.00
Agg. Base Course	115,282.63 Cu.M	100.00	166,588.89 Cu.M	100.00
H - Pile, Furnished	27,632.66 M	100.00	33,064.74 M	100.00
H - Pile, Driven	2,132 Ea	100.00	2,711 Ea	100.00
H - Pile, Test	8 Ea	100.00	17 Ea	100.00
Load, Test	-	-	2 Ea	100.00
Concrete A	954.48 Cu.M	100.00	742.90 Cu.M	100.00
Concrete AA	15,238.25 Cu.M	100.00	12,737.55 Cu.M	100.00
Concrete C	232.36 Cu.M	100.00	14.61 Cu.M	100.00
Re - Bar	1,802,187 Kg	100.00	1,471,761 Kg	100.00
31+190 E & W Bridge				100.00
35+415 E & W Bridge				100.00
38+292 E & W Bridge				100.00
40+456 E & W Bridge				100.00
41+502 E & W Bridge				100.00
43+260 E & W Bridge				100.00
44+755 Bridge				100.00
46+645 Bridge				100.00
47+390 Bridge				100.00
48+860 E & W Bridge				100.00

53

Work Item	Section A		Section B	
	Work Done	%	Work Done	%
51+760 N & S Bridge			100.00	100.00
53+730 Bridge			100.00	100.00
55+194 Bridge			100.00	100.00
56+535 Bridge			100.00	100.00
57+580 Bridge			100.00	100.00
11+932 W Bridge	100.00	100.00		
13+587 W Bridge	100.00	100.00		
15+540 W Bridge	100.00	100.00		
17+050 Bridge	100.00	100.00		
18+017 Bridge	100.00	100.00		
18+073 E & W Bridge		100.00		
18+800 E & W Bridge		100.00		
19+980 E & W Bridge		100.00		
20+864 E & W Bridge		100.00		
21+469 E & W Bridge		100.00		
25+465 E & W Bridge		100.00		
29+800 E & W Bridge		100.00		
10+860 (B.C.) Bridge	100.00	100.00		
12+270 N & S Bridge.		100.00		
R. C. P. ϕ 40	122.74 M	100.00	273.85 M	100.00
R. C. P. ϕ 50	131.20 M	100.00	720.28 M	100.00
R. C. P. ϕ 60	1,631.58 M	100.00	2,825.03 M	100.00
R. C. P. ϕ 80	2 192.44 M	100.00	718.67 M	100.00
R. C. P. ϕ 100	371.45 M	100.00	1,042.44 M	100.00
R. C. P. ϕ 120	1,117.20 M	100.00	2,112.88 M	100.00
C. S. P. ϕ 60	50.70 M	100.00	262.19 M	100.00
C. S. P. ϕ 80	-	-	-	-
Man Hole Type 1	-	-	-	-
Man Hole Type 2	-	-	-	-
Inlet Type 1	74.75 Ea	100.00	113 Ea	100.00
Inlet Type 2	1 Ea	100.00	3 Ea	100.00
20 cm P.C.P.	23,593.50 M	100.00	53,490.9 M	100.00
Guard Rail	4,056.75 M	100.00	5,710 M	100.00
Wire Fence	45,639 M	100.00	59,099.12 M	100.00
Gate Single 4.0 M	-	-	1 Ea	100.00
Gate Double 6.5 M	-	-	4 Ea	100.00
Concrete Curb Type 1	1,454.40 M	100.00	4,331.04 M	100.00
Concrete Delineation	2,970.55 M	100.00	-	-
Bit Concrete Curb	-	-	-	-
Loose Rip-rap	5,166.84 Ton	100.00	2,027.15 Ton	100.00



REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY	Date : July 18, 1979
AID Loan : No. 497 - H - 031	Pay Estimate No. : 60
Contract : No. 23/CTR/LN/BM/73	DOLLAR Invoice No. : HD/D/A-59
Contractor : HYUNDAI CONSTRUCTION CO., LTD.	Section : A
Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Remarks :

TOTAL DOLLAR VALUE OF CONTRACT : US\$ 9,618,125.12

Description	DOLLAR TOTAL	
Total Amount of Work Completed		10,055,846.18
Total Amount Previously Completed		10,047,411.38
Total Amount Being Invoiced for Payment		8,434.80
Less 10% Retention	(-) 6,724.77	
Less 20% Advance Payment		
Total Amount to be deducted	(-) 6,724.77	(-) 6,724.77
Total Amount to be paid to the Contractor		US\$ 15,159.57

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. **US\$ 17,895,875.00**

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. **US\$ 158,778.00**

CONTRACTOR CERTIFICATION OF PERFORMANCE
The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.

[Signature]
Site Manager
JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/D/A-59 covering Pay Estimate No. 60 on the 18th day of July 1979 at 15:00 hours.

Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

OWNER CERTIFICATION OF PERFORMANCE
The undersigned certifies that :

1. The work (or equipment and materials) for which payment is requested has been satisfactorily delivered;
2. The costs there of are properly payable in accordance with the terms of the Contract;
3. Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
4. Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and to future audit.

Date : _____

LARRY G. BUNTEN
Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

Approved for Payment	1. Date : _____	2. Date : _____
J. HENDRO KOELJONO Project Manager JAGORAWI HIGHWAY PROJECT		J.B. SOEMARCA SOEMARTHADJA Director of Construction JAGORAWI HIGHWAY PROJECT

REPUBLIC INDONESIA
DEPARTEMEN PEMERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY AID Loan : No. 497 - H - 031 Contract : No. 23/CTR/LN/BM/73 Contractor : HYUNDAI CONSTRUCTION CO., LTD. Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Date : July 18, 1979 Pay Estimate No. : 60 /DOLLAR Invoice No. : HD/D/B-59 Section : B Remarks :
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TOTAL /DOLLAR VALUE OF CONTRACT : US\$ 11,855,777.45

Description	/DOLLAR TOTAL
Total Amount of Work Completed	11,422,664.67
Total Amount Previously Credited	11,422,664.67
Total Amount Being Invoiced for Payment	-
Less 10% Retention	-
Less 20% Advance Payment	-
Total Amount to be deducted	-

Total Amount to be paid to the Contractor US\$ -

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. US\$ 17,776,299.00

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. US\$ -

CONTRACTOR CERTIFICATION OF PERFORMANCE

The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.


 HYUNDAI KIM JONG WON (D. Ltd.)
 Site Manager
 JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/D/B-59 covering Pay Estimate No. 60 on the 18th day of July 1979 at 15:00 hours.

Engineer - In - Charge
 JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

The undersigned certifies that :

- The services (or equipment and materials) for which payment is requested has been satisfactorily delivered;
- The costs there of are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
- Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and to future audit.

Date : _____

LARRY G. BUNTEN
 Engineer - In - Charge
 JAGORAWI HIGHWAY PROJECT

Approved for Payment	1. Date : _____ J. HENDRO MOELJONO Project Manager JAGORAWI HIGHWAY PROJECT	2. Date : _____ J. B. SOEMARCA SOEMANTHADJA Director of Construction JAGORAWI HIGHWAY PROJECT	
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REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY	Date : July 18, 1979
AID Loan : No. 497 - II - 031	Pay Estimate No. : 60
Contract : No. 23/CTR/LN/BM/73	RUPIAH/ Invoice No. : HD/R/A-59
Contractor : HYUNDAI CONSTRUCTION CO., LTD.	Section : A
Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Remarks :

TOTAL RUPIAH/ VALUE OF CONTRACT : Rp 2,612,632,480.-

Description	RUPIAH/	TOTAL
Total Amount of Work Completed		3,151,731,729.-
Total Amount Previously Credited		2,983,760,235.-
Total Amount Being Invoiced for Payment		167,971,494.-
Less 10% Retention	2,323,563.-	
Less 20% Advance Payment	-	
Total Amount to be deducted	2,323,563.-	2,323,563.-
Total Amount to be paid to the Contractor		Rp 165,647,931.-

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. **Rp 6,567,026,197.-**

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. **Rp 192,877,000.-**

CONTRACTOR CERTIFICATION OF PERFORMANCE

The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.

KIM, JONG WON
 Site Manager
JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/R/A-59 covering Pay Estimate No. 60 on the 18th day of July, 1979 at 15:00 hours.

Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

The undersigned certifies that :

- The services (or equipment and materials) for which payment is requested has been satisfactorily delivered;
- The costs there of are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
- Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and a future audit.

Date : _____

LARRY G. BUNTEN
 Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

Approved for Payment	1. Date: _____	2. Date: _____
	J. HENDRO MOELJONO Project Manager JAGORAWI HIGHWAY PROJECT	J.B. SOEMARGA SOEMARTARAJA Director of Construction JAGORAWI HIGHWAY PROJECT

REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY AID Loan : No. 497 - H - 031 Contract : No. 23/CTR/LN/BM/73 Contractor : HYUNDAI CONSTRUCTION CO., LTD. Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Date : July 18, 1979 Pay Estimate No. : 60 RUPIAH Invoice No. HD/R/B-59 Section : B Remarks :
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TOTAL RUPIAH/ VALUE OF CONTRACT : Rp 3,605,868,002.-

Description	RUPIAH/	TOTAL
Total Amount of Work Completed		3,629,101,679.-
Total Amount Previously Credited		3,622,908,061.-
Total Amount Being Invoiced for Payment		6,193,618.-
L. 10% Retention	1,270,467.	
Less 20% Advance Payment	-	
Total Amount to be deducted	1,270,467.	1,270,467.-

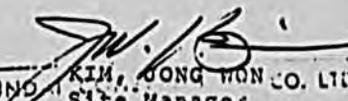
Total Amount to be paid to the Contractor Rp 4,923,151.-

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. Rp 5,275,276,855.-

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. Rp -

CONTRACTOR CERTIFICATION OF PERFORMANCE

The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.


KIM, GONG WON CO. LTD.
 Site Manager
 JAGORAWI HIGHWAY PROJECT
 JAGORAWI-HIGHWAY-PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/R/B-59 covering Pay Estimate No. 60 on the 18th day of July 79 at 15:00 hours.

Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

The undersigned certifies that :

- The services (or equipment and materials) for which payment is requested has been satisfactorily delivered;
- The costs there of are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
- Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and to future audit.

Date : _____

LARRY G. BUNTEN
 Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

1. Date : _____

2. Date : _____

Approved for Payment

J. HENDI O MOELJONO
 Project Manager
JAGORAWI HIGHWAY PROJECT

J.B. SOEMARGA SOEMAATHADJA
 Director of Construction
JAGORAWI HIGHWAY PROJECT

JAGORAWI
HIGHWAY PROJECT
SECTION A

PROJECT NUMBER - 75011111
Period to 1970 Estimate No. 1 Date July 2, 1970
Period Dates from 10/15/1969 thru January, 1970

DOLLAR -
SHEET 1

Amman & Watson
Trans. And Engineering

NO.	ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID PRICE
						Quantity	Amount	Quantity	Amount	
		<u>GRAND TOTAL</u>			10,154,873					
1	001(1)	Publication	L.S.	-	2,087,316	-	-	37	2,087,316	2,087,316
2	001(2)	Clearing and Crubbling	Rec	122	30,754	59 28	21,600.00	176 73	52,354	83,108
3	001(3)	Unclassified Excavation (2)	Cu.M	0 91	595,322	(-) 219 75	(-) 219,000	379 16	376,322	755,644
4	001(4)	Bank Excavation	Cu.M	1 16	58,000	-	-	1 16	58,000	116,000
5	001(5)	Drain Excavation (2)	Cu.M	0 65	1,219,820	-	-	255 20	1,219,820	2,439,640
6	001(6)	Util. Excavation	Cu.M	0 30	6,120	556 00	1,100	75,000	81,620	163,240
7	001(7)	Channel Excavation	Cu.M	0 43	4,730	-	-	6,120	10,850	21,700
8	001(8)	Excavation for Structures	Cu.M	0 46	9,177	600 00	260 00	49,520	69,700	139,400
9	001(9)	Bridge Excavation	Cu.M	9 60	194,880	2,782 57	26,216.50	17,150 75	238,249.27	476,498.54
10	001(10)	Asphalt Treated Base Course (2)	Ton	3 70	709,550	-	-	221,000 00	930,550	1,861,100
11	001(11)	Subgrade Modification-Lime Treated	Cu.M	2 50	95,750	-	-	257 07	240,500	481,000
12	001(12)	Hot Bituminous Concrete Pavement (2)	Ton	5 35	428,920	-	-	77,000 00	505,920	1,011,840
13	001(13)	Asphalt Cement, 60-70 Penetration (2)	Ton	50	750,000	-	-	17,000 00	967,000	1,934,000
14	001(14)	Tack Coat, Asphalt Grade 80-350	Ton	124	55,800	-	-	245	127,000	254,000
15	001(15)	Prime Coat, Asphalt Grade HC-70	Ton	120	83,800	-	-	4 05	100,000	203,800
16	001(16)	Seal Coat, Type 3	Sq.Y	0 16	37,800	17,076 04	2,000 00	207,000 00	246,876 04	493,752 08
17	001(17)	Aggregate Base Course	Cu.M	4	73,600	158 57	695 00	114,000 00	198,295 57	396,591 14
18	001(18)	Structural Steel Piles, Furnished (2)	Lineal	31	612,870	-	-	27,120 65	640,000	1,280,000
19	001(19)	Structural Steel Piles, Driven (2)	Each	90	104,400	-	-	2,150	106,550	213,100
20	001(20)	Structural Steel Piles, Test Driven	Each	473	6,700	-	-	-	6,700	13,400
21	001(21)	Load Tests	Each	1,345	3,500	-	-	-	3,500	7,000
22	001(22)	Structural Concrete, Class A	Cu.M	23	15,540	-	-	54 43	21,000	42,000
23	001(23)	Structural Concrete, Class AA (2)	Cu.M	34	512,620	45 87	1,500 00	15,100 00	527,720	1,055,440
24	001(24)	Structural Concrete, Class C	Cu.M	24 72	9,824	4 55	115 00	232 50	5,171 55	10,346 05
25	002(1)	Reinforcing Steel (2)	Eg.	0 25	436,175	15,539 69	3,000 00	1,700,000 00	2,146,175 69	4,292,351 38
26	002(2)	Sta. 11+932, East Bridge	L.S.	-	DELSTED	DURING BID	NEGOTIATED	100,000 00	150,000 00	250,000 00
27	002(3)	Sta. 11+932, West Bridge	L.S.	-	150,000	5,000 00	7,000 00	100,000 00	157,000 00	307,000 00
28	002(4)	Sta. 13+582, East Bridge	L.S.	-	DELSTED	DURING BID	NEGOTIATED	100,000 00	100,000 00	200,000 00
29	002(5)	Sta. 13+582, West Bridge	L.S.	-	20,271	5,000 00	4,000 00	100,000 00	109,271	209,271
30	002(6)	Sta. 15+000, East Bridge	L.S.	-	DELSTED	DURING BID	NEGOTIATED	100,000 00	200,000 00	400,000 00
31	002(7)	Sta. 15+510, West Bridge	L.S.	-	79,866	5,000 00	3,000 00	100,000 00	187,866	375,732
32	002(8)	Sta. 17+050, Bridge	L.S.	-	49,127	5,000 00	2,500 00	100,000 00	156,627	313,254
33	002(9)	Sta. 18+017, Bridge	L.S.	-	29,345	5,000 00	4,000 00	100,000 00	138,345	276,690
34	002(10)	Sta. 18+073, East Bridge	L.S.	-	38,533	5,000 00	1,500 00	100,000 00	144,533	289,066
35	002(11)	Sta. 18+073, West Bridge	L.S.	-	38,533	5,000 00	1,500 00	100,000 00	144,533	289,066
36	002(12)	Sta. 18+800, East Bridge	L.S.	-	30,713	-	-	100,000 00	130,713	261,426
37	002(13)	Sta. 18+800, West Bridge	L.S.	-	30,713	-	-	100,000 00	130,713	261,426
38	002(14)	Sta. 19+000, East Bridge	L.S.	-	89,503	-	-	100,000 00	189,503	379,006
39	002(15)	Sta. 19+000, West Bridge	L.S.	-	89,503	-	-	100,000 00	189,503	379,006
40	002(16)	Sta. 20+000, East Bridge	L.S.	-	34,001	-	-	100,000 00	134,001	268,002
41	002(17)	Sta. 20+000, West Bridge	L.S.	-	34,001	-	-	100,000 00	134,001	268,002
42	002(18)	Sta. 21+000, East Bridge	L.S.	-	82,691	-	-	100,000 00	182,691	365,382
		<u>Sub-Totals</u>					1,521 07			

Best Available Document

VI. 6. MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

60

JAGORAWI
HIGHWAY PROJECT
SECTION A

PROJECT RECORD - ESTIMATE
Period No. 60 Estimate No. 60 Date July 2, 1979
Period Dates MAY 25, 1979 - SEP 29, 1979

DOLLAR
SHEET 7

Amman & Watson
Transportation Engineering

BID SHEET NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		BID SHEET NO.
						Quantity	Amount	Quantity	Amount	
43.	601B(18)	Sta. 21+469, West Bridge	L.S.	-	82,691	-	-	100.00%	82,691	43
44.	601B(19)	Sta. 25+469, East Bridge	L.S.	-	34,001	-	-	100.00%	34,001	44
44.	601B(20)	Sta. 25+469, West Bridge	L.S.	-	34,001	-	-	100.00%	34,001	44
45.	601B(21)	Sta. 29+820, East Bridge	L.S.	-	25,781	-	-	100.00%	25,781	45
45.	601B(22)	Sta. 29+820, West Bridge	L.S.	-	25,781	-	-	100.00%	25,781	45
47.	601B(23)	Sta. 10+820(BC), Bridge	L.S.	-	57,695	-	-	100.00%	57,695	47
48.	601B(24)	Sta. 12+270(BC), North Bridge	L.S.	-	25,781	-	-	100.00%	25,781	48
49.	601B(25)	Sta. 12+270(BC), South Bridge	L.S.	-	25,781	-	-	100.00%	25,781	49
50.	603(1)	40 Cn. Reinforced Concrete Pipe (2)	Lin.M	5	4,150	10.40	52.00	122.74	4150.00	50
51.	603(2)	50 Cn. Reinforced Concrete Pipe (2)	Lin.M	6	780	-	-	151.20	708.00	51
52.	603(3)	60 Cn. Reinforced Concrete Pipe (2)	Lin.M	8	20,040	-	-	1,603.58	12,032.00	52
53.	603(4)	80 Cn. Reinforced Concrete Pipe (2)	Lin.M	20	71,000	-	-	2,163.05	43,000.00	53
54.	603(5)	100 Cn. Reinforced Concrete Pipe (2)	Lin.M	25	17,125	-	-	571.45	9,200.00	54
55.	603(6)	120 Cn. Reinforced Concrete Pipe (2)	Lin.M	35	48,300	-	-	1,167.70	20,800.00	55
55.	603(7)	60 Cn. Corrugated Steel Pipe	Lin.M	36.50	19,726	-	-	50.70	1,800.00	55
57.	603(8)	80 Cn. Corrugated Steel Pipe	Lin.M	58.30	2,915	-	-	-	-	57
58.	604(1)	Manhole, Type 1	Each	138.70	1,387	-	-	-	-	58
59.	604(2)	Manhole, Type 2	Each	116.50	699	-	-	-	-	59
60.	604(3)	Inlet, Type 1	Each	91	11,254	-	182.00	74.75	6,300.25	60
61.	604(4)	Inlet, Type 2	Each	91	4,732	-	-	1	61.00	61
62.	625(1)	20 Cn. Perforated Concrete Pipe	Lin.M	0.60	960	-	-	23,559.70	14,133.00	62
63.	625(1)	Galvanized Beam-Type Guardrail	Lin.M	15.24	49,530	592.10	15,119.00	7,850.25	27,500.00	63
64.	627(1)	Wire Fence	Lin.M	2.58	122,350	600.00	24,220.00	45,000	113,570.00	64
65.	627(2)	Gate, Single, 4.0-M	Each	76.70	1,534	-	-	-	-	65
66.	627(3)	Gate, Double, 6.5-M	Each	99.50	1,194	-	-	-	-	66
67.	627(1)	Concrete curb, Type 1	Lin.M	1.15	1,794	730	859.50	1,464.10	1,572.50	67
68.	628(4)	Concrete Delineation Strip (CO-38)	Lin.M	3.39	8,407.20	-	-	2,979.55	10,600.00	68A
69.	628(1)	Nitrogenous Concrete Curb	Lin.M	1.12	14,302	-	-	-	-	69
70.	629(1)	Loose Riprap	Ton	3.40	4,284	1,992.10	6,773.74	5,174.72	12,453.00	70
71.	622(1)	Mortared Rubble Paved Waterway, Type A	Sq.M	1.40	7,280	603.77	1,122.84	15,675.00	19,020.00	71
72.	622(2)	Mortared Rubble Paved Waterway, Type B	Sq.M	1.34	4,324	2,617.07	3,770.65	11,170.52	14,520.00	72
73.	622(3)	Bituminous Faced Waterway	Sq.M	0.85	20,220	-	-	-	-	73
74.	622(1)	Right-of-Way Enclosure	Each	6.50	2,325	-	-	-	-	74
75.	624(1)	Furnishing and Placing Topsoil	Sq.M	0.22	6,160	-	-	-	-	75
76.	623(1)	Grigging	Ac	2	10,000	-	-	9,859.70	12,710.00	76
77.	623(1)	Grigging	Ac	-	-	-	-	-	-	77
78.	631(1)	Concrete Block Slope Protection	Sq.M	3.60	1,360	-	-	1,357.95	4,920.00	78
79.	631(1)	Roadway Marking	Lin.M	0.12	14,940	23,910	2,869.20	103,641	12,472.00	79
80.	632(1)	Road Sign, Type A	Each	24	48	-	-	-	-	80
81.	632(2)	Road Sign, Type B	Each	21.20	424	-	-	-	-	81
82.	632(3)	Road Sign, Type C	Each	26.30	263	-	-	-	-	82
83.	632(4)	Road Sign, Type D	Each	20.70	509	-	-	-	-	83
84.	632(5)	Road Sign, Type E-1	Each	93.60	460	-	-	-	-	84
		Sheet No. 2	Sub-Totals				57,770.31		713,500.00	

VI. 6. MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

61

SECTION VI
 HIGHWAY PROJECT
 SECTION A

Period No. 60 Estimate No. 60 Date July 2, 1972
 Period Dates July 28, 1971 to August 1, 1972

LOMAN
 SHEET 3
 Armann & Whitney
 Trans - Asia Engineering

QTY	PAY ITEM NO.	ITEMS	Unit	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHED NO.	
						Quantity	Amount	Quantity	Amount		
	632(9)	Road Sign, Type E 2	Each	105.50	543	-	-	-	-	85	
	632(10)	Road Sign, Type F 1	Each	100.00	200	-	-	-	-	85	
	632(11)	Road Sign, Type G 1	Each	22.00	81	-	-	-	-	87	
	632(12)	Road Sign, Type G 2	Each	105.50	432	-	-	-	-	85	
	632(13)	Road Sign, Type G 3	Each	123.00	173	-	-	-	-	85	
	632(14)	Road Sign, Type G 4	Each	18.50	111	-	-	-	-	85	
	632(15)	Road Sign, Type G 5	Each	19.00	38	-	-	-	-	85	
	632(16)	Road Sign, Type H 1	Each	18.50	176	-	-	-	-	89	
	632(17)	Road Sign, Type H 2	Each	18.50	63	-	-	-	-	89	
	632(18)	Road Sign, Type H 3	Each	18.50	111	-	-	-	-	89	
	632(19)	Road Sign, Type H 4	Each	29.00	87	-	-	-	-	89	
	633(1)	Signalization System Complete, Srvc A	Infra	-	DELETED	DURING BID NEGOTIATIONS		-	-	97	
	633(2)	Traffic Signal System Complete, Srvc A	L.S.	-	4,200	-	-	-	-	97	
	633(3)	Traffic Signal System Complete, Srvc B	L.S.	-	3,200	DELETED	DURING BID NEGOTIATIONS		-	97	
	111(1)	Housing, Type A	Each	3,746.	3,746	5.00	187.50	100.00	%	3,746.00	99
	111(2)	Housing, Type B	Each	3,052.	18,372	5.00	918.00	100.00	%	18,372.00	100
	111(3)	Housing, Type C	Each	2,526.	2,526	5.00	128.50	100.00	%	2,526.00	101
	111(4)	Housing, Type D	Each	-	DELETED	DURING BID NEGOTIATIONS		-	-	102	
	111(5)	Contractor Warehouse	Each	1,774.	1,774	-	-	95.00	%	1,685.30	103
	111(6)	Contractor Shop	Each	4,443	4,443	2.50	111.03	97.50	%	4,331.55	104
	111(7)	Contractor Weigh House & Scale	L.S.	-	15,764	1.00	17,004	100.00	%	15,764.00	105
	111(8)	Engineer Office & Laboratory	L.S.	-	2,175	5.00	103.50	100.00	%	2,378.50	106
	111(9)	Engineer Vehicles	L.S.	-	119,332	-	-	100.00	%	119,332.00	107
	634(1)	Settlement Plate (CCO 51)	Each	-	NONE	-	-	25	-	108	
	634(2)	Riser Pipe, 0.61 Long (CCO 51)	Each	-	NONE	-	-	228	-	109	
	634(3)	Underdrain Junction Box (CCO 51)	Each	-	NONE	-	-	250	-	110	
	CCO 112	See Contract Amendment No. 3 (CCO 112)	Cont'd	1.25	-	7,382	92	9,536.54	137.35	92	185,165.94
	CCO 14	Delete RCB Waterproofing	Sq. ft.	(-)	6,251	(-)	10,801.60	1,443	55	(-)	9,055.89
	CCO 48	See Culvert Station 23+500	L.S.	-	5,600.00	6.00	339.53	100.00	%	5,939.53	105
	CCO 43	Bridge Rail Bolt Revisions	L.S.	-	(-)	700.00	-	100.00	%	(-) 700.00	105
	CCO 44	See 1.1 See Pipe Main System	L.S.	-	1,237.00	24.10	265.27	100.00	%	1,237.00	105
	CCO 45	See Culvert Sta. 23+500	L.S.	-	4,800.00	-	-	55.78	5	-	4,201.50
	CCO 52	See Contract Amendment No. 1, 1d:CCO	L.S.	-	2,232.00	-	-	77.09	3	-	2,723.50
	CCO 50	Cost Adjustment of App. Exp. Courso	Cont'd	(-)	0.00	(-) 1,700.00	153	37	(-) 135.05	62	(-) 5,540.00
		Sheet No. 3						12,072.56			260,050.30

Best Available Document

VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

62

JAGORAHU
 HIGHWAY PROJECT
 SECTION A

PROJECT RECORD - ESTIMATE
 Period No. 60 Estimate No. 60 Date July 2, 1972
 Period Dates From 1979 thru June 25, 1979

DOLLAR SHEET 4
 James A. Whitney
 Trans - Asia Engineering

BID CHG NO.	PAY ITEM NO.	I T E M S	DATE	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	(5)		(6)		(7)		BID CHG NO.
						THIS ESTIMATE		TOTAL ESTIMATE		QTY	AMOUNT	
						Quantity	Amount	Quantity	Amount			
	000 87	Excess/credit for U.S. AID Code 955 Shipping	1-8	-	(-) 117,822.54	-	-	-	-	-	-	
	000 95	Adjust of Compensation	1-8	-	(-) 1,822.16	-	-	100.00	-	(-) 132,644.70		
	000 104	Adjust of Compensation	1	-	-	-	-	100.00	-	(-) 1,822.16		
	000 105	Adjust of Compensation	1	-	-	-	-	-	-	(-) 68,052.00		
	000 87	Excess/credit for U.S. AID Code 935 Shipping	1-8	-	-	-	42.50	-	-	(-) 13,252.80		
	000 87	Excess/credit for U.S. AID Code 935 Shipping	1-8	-	(-) 105,577.25	-	-	-	-	-	-	
	000 122	Adjust of Compensation Class Toll Plans	1-8	-	(-) 55,912.57	-	-	100.00	-	(-) 55,912.57		
	000 113	Adjust of Compensation Revised	1-8	-	-	-	-	-	-	(-) 55,203.24		
	000 101	Excess/credit for U.S. AID Code 935 Shipping	1-8	9.12	29,822.20	922.00	9,227.55	5,000.00	25	15,825.79		
	000 105	Excess/credit for U.S. AID Code 935 Shipping	1-8	0.25	19,122.00	23,210.00	3,252.22	19,122.00	25	19,252.22		
	000 122	Adjust of Compensation Foot Pa. Sta. 24	1-8	0.25	11,022.10	2,000.00	2,022.60	54,000.00	-	12,072.60		
	000 87	Excess/credit for U.S. AID Code 935 Shipping	-	-	(-) 125,419.73	53,100.00	(-) 131,936.85	100.00	-	(-) 125,419.73		
Sub Total							(-) 117,099.48			(-) 510,637.12		

Best Available Document

VI. MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

63

LAGORAWI
HIGHWAY PROJECT
SECTION I.A.

PROJECT RECORD-ESTIMATE

Period No. 60 Estimate No. 60 Date July 2, 1977
Period Dates: July 26, 1977 thru Sept 25, 1977

DOLLAR
SHEET 5

Amanna & Whitney
Trans - Asia Engineering

A

(5) (6) (7) (8)

BID NO.	PAY ITEM NO.	ITEMS	Unit	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID NO.
						Quantity	Amount	Quantity	Amount	
		SHEET NO. 4 Sub Totals					(-)117,000.00		(-)510,655.12	
		SHEET NO. 1 Sub Totals					75,022.17		10,627,181.00	
		SHEET NO. 2 Sub Totals					55,850.50		20,550,254.00	
		SHEET NO. 3 Sub Totals					12,072.50		20,000,000.00	
		SUB-TOTALS: CONTRACT ITEMS					22,850.00		6,255,162.00	
		(A) Time and Materials Extra Work								
		(B) Adjustment Compensation								
		SUB-TOTALS: OVER COSTS					22,850.00		6,255,162.00	
		(A) Materials on Hand					(-)14,425.00		59,605.23	
		(D) Materials Cost Escalation								
		(E) Labor Cost Escalation								
		SUB-TOTALS: OVER COSTS, MATERIALS, OVER INCL.					8,425.00		10,050,000.00	
		(A) Project & Retention					(-)6,774.77		150,000.00	
		(B)								
		SUB-TOTALS: RETENTION					(-)6,774.77		150,000.00	
		SUB-TOTALS: OVER COSTS					15,350.23		6,574,652.00	
		SUB-TOTALS: OVER COSTS					15,350.23		6,574,652.00	

PERCENT COMPLETED 30.5% PERCENT TIME ELAPSED 22.7%
 OTHER ALLOWABLE DAYS 2 C.C.O DAYS 222 SIGNATURE

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VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

PAGE DRAWN
HIGHWAY PROJECT
SECTION 1

PROJECT RECORD - ESTIMATE

Period No. 6 Estimate No. 6 Date July 2, 1959
 Period Dates July 26, 1959 thru Aug 3, 1959

DOLLAR
 SHEET 1

Amount in Dollars
 Trans. - Auto Engineering

SID SCH. NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES		ORIGINAL AUTHORIZED		THIS ESTIMATE		TOTAL ESTIMATE		SID SCH. NO.
						Amount		Quantity	Amount	Quantity	Amount	
		BASIC ITEMS				12,588,700						
1.	001(1)	Excavation	L.S.			2,348,775				3/1	2,348,775	1
2.	001(2)	Clearing and Grubbing	Sq. Yd.	115.		49,250				284.57	295,750	2
3.	001(3)	Unclassified Excavation (2)	Cu.M.	0.59		1,000,261				2,443.00	3,443,261	3
4.	001(4)	Back Excavation	Cu.M.	1.15		50,000				17,535.00	67,535.00	4
5.	001(5)	Barrow Excavation (2)	Cu.M.	0.77		1,358,712				801,216.00	2,160,428	5
6.	001(6)	Ditch Excavation	Cu.M.	0.30		6,000				21,000.00	27,000.00	6
7.	001(7)	Channel Excavation	Cu.M.	0.42		8,400				20,000.00	28,400.00	7
8.	001(8)	Excavation For Structures	Cu.M.	0.70		8,260				103,531.00	111,791.00	8
9.	001(9)	Bridge Excavation	Cu.M.	4.18		64,700				11,232.00	75,932.00	9
10.	001(10)	Asphalt Treated Base Course (2)	Ton	3.70		1,055,210				326,417.00	1,381,627.00	10
11.	001(11)	Concrete - Reinforced - C-10-Treated	Sq. Yd.	2.50		722,500						11
12.	001(12)	Hot Bituminous Concrete Pavement (2)	Ton	5.35		625,250				107,809.00	733,059.00	12
13.	001(13)	Asphalt Cement, 60-70 Penetration (2)	Ton	50.		1,105,000				23,800.00	1,128,800.00	13
14.	001(14)	Top Coat, Asphalt Grade MC-250	Sq. Yd.	124.		79,100				265.00	79,365.00	14
15.	001(15)	Prime Coat, Asphalt Grade MC-70	Sq. Yd.	120.		132,000				10.22	1,321,220.00	15
16.	001(16)	Seal Coat, Type J	Sq. Yd.	0.16		41,600				300,268.00	341,868.00	16
17.	001(17)	Aggregate Base Course	Cu.M.	4.		100,000				165,500.00	265,500.00	17
18.	001(18)	Structural Steel Pile, Furnished (2)	Lb.	31		1,322,771				33,000.00	1,355,771.00	18
19.	001(19)	Structural Steel Pile, Driven (2)	Each	90		252,000				2,711.00	254,711.00	19
20.	001(20)	Structural Steel Pile, Test Driven	Each	445		7,135				47.00	7,182.00	20
21.	001(21)	Load Tests	Each	1,850		3,700				2.00	3,702.00	21
22.	001(22)	Structural Concrete, Class A	Cu.M.	23		15,560				742.00	16,302.00	22
23.	001(23)	Structural Concrete, Class AA (2)	Cu.M.	35		350,800				12,777.50	363,577.50	23
24.	001(24)	Structural Concrete, Class C	Cu.M.	26		2,000				18.61	2,018.61	24
25.	001(25)	Reinforcing Steel (2)	Kg.	0.45		291,711				1,471,761.00	2,763,472.00	25
26.	001(26)	SIA. 31-150, East Bridge	L.S.			37,435				100.00	37,535.00	26
27.	001(27)	SIA. 31-150, West Bridge	L.S.			37,435				100.00	37,535.00	27
28.	001(28)	SIA. 35-415, East Bridge	L.S.			25,781				100.00	25,881.00	28
29.	001(29)	SIA. 35-415, West Bridge	L.S.			25,731				100.00	25,831.00	29
30.	001(30)	SIA. 38-272, East Bridge	L.S.			78,020				100.00	78,120.00	30
31.	001(31)	SIA. 38-272, West Bridge	L.S.			73,020				100.00	73,120.00	31
32.	001(32)	SIA. 40-455, East Bridge	L.S.			25,603				100.00	25,703.00	32
33.	001(33)	SIA. 40-455, West Bridge	L.S.			25,603				100.00	25,703.00	33
34.	001(34)	SIA. 41-502, East Bridge	L.S.			62,931				100.00	63,031.00	34
35.	001(35)	SIA. 41-502, West Bridge	L.S.			62,031				100.00	62,131.00	35
36.	001(36)	SIA. 43-260, East Bridge	L.S.			25,782				100.00	25,882.00	36
37.	001(37)	SIA. 43-260, West Bridge	L.S.			25,782				100.00	25,882.00	37
38.	001(38)	SIA. 45-260, Bridge	L.S.			45,044				100.00	45,144.00	38
39.	001(39)	SIA. 46-645, Bridge	L.S.			45,044				100.00	45,144.00	39
40.	001(40)	SIA. 47-300, Bridge	L.S.			45,044				100.00	45,144.00	40
41.	001(41)	SIA. 49-360, East Bridge	L.S.			25,782				100.00	25,882.00	41
42.	001(42)	SIA. 49-360, West Bridge	L.S.			25,782				100.00	25,882.00	42
		Sub-Totals									11,221,417.00	

Part Available Document

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VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI. . . . APPENDIX

JAGORAWI
HIGHWAY PROJECT
SECTION B

PROJECT RECORD - ESTIMATE

COLI AP
SHEET 2

Assessment & Estimation
Trans - And Engineering

Period No. 60 Estimate No. 60 Date July 2, 1979
Period Dates May 29, 1979 thru June 29, 1979

(5) (6) (7) (8)

BID SCHED NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHED NO.
						Quantity	Amount	Quantity	Amount	
6012(1)	STA. 49+125, East Bridge	L.S.	-	-	25,727	DELETED PER CCO NO. 26	-	-	-	71
6012(2)	STA. 49+125, West Bridge	L.S.	-	-	25,727	DELETED PER CCO NO. 26	-	-	-	72
6012(3)	STA. 51+750, North Bridge	L.S.	-	-	73,334	-	-	62,394	45,773	73
6012(4)	STA. 51+750, South Bridge	L.S.	-	-	73,334	-	-	36,884	22,055	74
6012(5)	STA. 53+770, Bridge (Rev. per CCO 26)	L.S.	-	-	85,000	-	-	109,000	89,000	75
6012(6)	STA. 54+300, East Bridge	L.S.	-	-	34,002	DELETED PER CCO NO. 26	-	-	-	76
6012(7)	STA. 54+300, West Bridge	L.S.	-	-	34,002	DELETED PER CCO NO. 26	-	-	-	77
6012(8)	STA. 56+525, East Bridge	L.S.	-	-	37,436	DELETED PER CCO NO. 26	-	-	-	78
6012(9)	STA. 56+525, West Bridge	L.S.	-	-	37,436	DELETED PER CCO NO. 26	-	-	-	79
6012(10)	STA. 57+580, Bridge	L.S.	-	-	77,406	-	-	100,000	77,708	80
6012(11)	400mm Reinforced Concrete Pipe (2)	Lin.M	5	5	4,100	-	-	273	1,250	81
6012(12)	500mm Reinforced Concrete Pipe (2)	Lin.M	5	40	4,997	-	-	720	1,600	82
6012(13)	600mm Reinforced Concrete Pipe (2)	Lin.M	8	8	24,960	-	-	2,825	22,600	83
6012(14)	800mm Reinforced Concrete Pipe (2)	Lin.M	20	20	72,700	-	-	718	14,522	84
6012(15)	1000mm Reinforced Concrete Pipe (2)	Lin.M	25	25	26,875	-	-	1,042	26,001	85
6012(16)	1200mm Reinforced Concrete Pipe (2)	Lin.M	35	35	104,475	-	-	2,112	73,900	86
6012(17)	500mm Galvanized Steel Pipe	Lin.M	37	37	25,160	-	-	262	9,221	87
6012(18)	800mm Galvanized Steel Pipe	Lin.M	58	58	2,900	-	-	-	-	88
6012(19)	Manhole, Type 1	Each	147	147	2,240	-	-	-	-	89
6012(20)	Manhole, Type 2	Each	134	134	536	-	-	-	-	90
6012(21)	Inlet, Type 1	Each	169	169	26,026	-	-	113	19,072	91
6012(22)	Inlet, Type 2	Each	87	87	3,915	-	-	3	561	92
6012(23)	200mm Perforated Concrete Pipe	Lin.M	0	60	180	-	-	53,490	32,000	93
6012(24)	Galvanized Beam-Type Guardrail	Lin.M	15	15	50,400	-	-	5,710	85,000	94
6012(25)	Wire Fence	Lin.M	2	70	163,350	-	-	59,099	159,500	95
6012(26)	Gate, Single, 4.0 M	Each	77	77	1,232	-	-	1	72	96
6012(27)	Gate, Double, 6.5 M	Each	100	100	1,800	-	-	1	100	97
6012(28)	Concrete Curb, Type 1	Lin.M	1	80	3,600	-	-	4,321	2,200	98
6012(29)	Concrete Curb and Gutter, Type 1	Lin.M	1	25	20,176	DELETED PER CCO NO. 29	-	-	-	99
6012(30)	Bituminous Concrete Curb	Lin.M	1	35	20,169	-	-	-	-	100
6012(31)	Loose Apron	Sq.M	3	50	700	-	-	2,027	2,000	101
6012(32)	Mortar and Rubble Paved Waterway, Type A	Sq.M	1	50	37,500	-	-	8,421	12,000	102
6012(33)	Mortar and Rubble Paved Waterway, Type B	Sq.M	1	30	3,900	-	-	9,055	11,700	103
6012(34)	Bituminous Paved Waterway	Sq.M	2	1	2,670	-	-	-	-	104
6012(35)	Right of Way Markings	Each	4	10	1,000	DELETED PER CCO NO. 2	-	-	-	105
6012(36)	Vertical and Sloping Topsoil	Sq.M	0	20	15,520	-	-	-	-	106
6012(37)	Splicing	Mre	2	1	14,470	-	-	9,533	19,000	107
6012(38)	Splicing	Mre	-	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	108
6012(39)	Concrete Block Slope Protection	Sq.M	1	80	14,700	-	-	2,600	9,000	109
6012(40)	Roadway Marking	Lin.M	0	10	16,670	-	-	129,843	12,000	110
6012(41)	Road Sign, Type A	Each	10	60	100	-	-	-	-	111
6012(42)	Road Sign, Type B	Each	5	1	150	-	-	-	-	112
6012(43)	Road Sign, Type C	Each	10	60	371	-	-	-	-	113
Sheet No. 2		Sub-Total							756,830.87	

Best Available Document

VI. 6. MONTHLY PAY ESTIMATE NO. 60.

SECTION VI. APPENDIX

JARODAWI

PROJECT RECORD - ESTIMATE

DOLLAR

Jamoun & Whitney

HIGHWAY PROJECT SECTION

Period No. 60 Estimate No. 60 Date July 2, 1979

SHEET 3

Trans - Asia Engineering

Period Dates May 25, 1979 thru June 22, 1979

BID SCHD NO	PAY ITEM NO	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5)		(6)		(7)		(8)		BID NO
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	
85	632(4)	Road Sign, Type D	Each	10.80	324	-	-	-	-	-	-	-	-	85
86	632(5)	Road Sign, Type E 1	Each	22	110	-	-	-	-	-	-	-	-	86
87	632(6)	Road Sign, Type E 2	Each	21.40	214	-	-	-	-	-	-	-	-	87
88	632(7)	Road Sign, Type F 1	Each	22	132	-	-	-	-	-	-	-	-	88
89	632(8)	Road Sign, Type G 1	Each	27	216	-	-	-	-	-	-	-	-	89
90	632(9)	Road Sign, Type G 2	Each	22	66	-	-	-	-	-	-	-	-	90
91	632(10)	Road Sign, Type G 3	Each	21.40	214	-	-	-	-	-	-	-	-	91
92	632(11)	Road Sign, Type G 4	Each	21	105	-	-	-	-	-	-	-	-	92
93	632(12)	Road Sign, Type G 5	Each	21	105	-	-	-	-	-	-	-	-	93
94	632(13)	Road Sign, Type H 1	Each	21.30	426	-	-	-	-	-	-	-	-	94
95	632(14)	Road Sign, Type H 2	Each	22	44	-	-	-	-	-	-	-	-	95
96	632(15)	Road Sign, Type H 3	Each	22	88	-	-	-	-	-	-	-	-	96
97	632(16)	Road Sign, Type H 4	Each	21	126	-	-	-	-	-	-	-	-	97
98	632(17)	illumination System Complete, Srvc A	L.S.	-	-	-	-	-	-	-	-	-	-	98
99	632(18)	illumination System Complete, Srvc B	L.S.	-	-	-	-	-	-	-	-	-	-	99
100	632(19)	illumination System Complete, Srvc C	L.S.	-	17,482	-	-	-	-	-	-	-	-	100
101	111(1)	Housing, Type A	Each	3,746	3,746	-	-	-	95.00	%	3,558.70	-	-	101
102	111(2)	Housing, Type B	Each	3,062	18,372	-	-	-	95.00	%	17,453.40	-	-	102
103	111(3)	Housing, Type C	Each	2,576	2,576	-	-	-	95.00	%	2,447.20	-	-	103
104	111(4)	Housing, Type D	Each	-	-	-	-	-	-	-	-	-	-	104
105	111(5)	Contractor Warehouse	Each	1,724	1,724	-	-	-	100.00	%	1,774.00	-	-	105
106	111(6)	Contractor Shop	Each	4,443	4,443	-	-	-	100.00	%	4,443.00	-	-	106
107	111(7)	Contractor Weigh House & Scale	L.S.	-	15,764	-	-	-	100.00	%	15,764.00	-	-	107
108	111(8)	Engineer's Office & Laboratory	L.S.	-	2,176	-	-	-	100.00	%	2,176.00	-	-	108
109	111(9)	Engineer's Vehicles	L.S.	-	115,325	-	-	-	100.00	%	115,325.00	-	-	109
110	634(1)	Settlement Plate (CCO 7)	Each	-	NONE	-	-	-	-	-	122	-	-	110
111	634(2)	Riser Pipe, 0.6' Long (CCO 7)	Each	-	NONE	-	-	-	-	-	920	-	-	111
112	634(3)	Underdrain Junction Box (CCO 7)	Each	-	NONE	-	-	-	-	-	674	-	-	112
113	601B(30)	Sta. 55+194 Bridge, (CCO 26)	L.S.	-	45,044	-	-	-	100.00	%	45,044.00	-	-	113
114	601C(31)	Sta. 56+535 Bridge, (CCO 26)	L.S.	-	57,665	-	-	-	100.00	%	57,665.00	-	-	114
115	605(4)	Concrete Delineation Strip	Lin.M	2.76	17,608.80	-	-	-	-	-	-	-	-	115
Extra Work:														
CCO 15 Delete RCB Water Proofing				Sq.M.	(-) 6.28	(-) 10,171.60	-	-	-	-	1,679	80	(-)10,549.14	-
CCO 24 Sag Culvert at Sta. 39+274				L.S.	-	29,225.00	-	-	100.00	%	29,225.00	-	-	-
CCO 24 Suppl #1 Sagspore Drain System				L.S.	-	1,710.00	-	-	100.00	%	1,710.00	-	-	-
CCO 27 Modified Type I Inlets				Each	Varies	48.06	-	-	100.00	%	48.06	-	-	-
CCO 44 Bridge Rail Bolt Revisions				L.S.	-	(-) 2,322.88	-	-	100.00	%	(-)2,322.88	-	-	-
CCO 49 Waterways Sta.39+110 & 57+075				Sq.M. and L.S.	-	1,210.00	-	-	99.562	%	1,204.62	-	-	-
Sheet No. 3 Sub-Totals												285,046.96	-	

VI. 6. MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

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VI. 6. MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

BID SCH NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID CHD NO.
						Quantity	Amount	Quantity	Amount	
		Sheet No. 5 - Sub Totals								
		Sheet No. 1 Sub Totals							11,331,361.17	
		Sheet No. 2 Sub Totals							755,633.57	
		Sheet No. 3 Sub Totals							285,046.05	
		Sheet No. 4 Sub Totals							(-190,182.33)	
		GRAND TOTALS : CONTRACT ITEMS							11,422,664.67	
		(A) Time and Materials Extra Work								
		(B) Adjustment Compensation								
		GRAND TOTALS : WORK DONE							11,422,664.67	
		(C) Materials on Hand								
		(D) Materials Cost Escalation								
		(E) Labor Cost Escalation								
		GRAND TOTALS : WORK DONE, MATERIALS, COST ESC.							11,422,664.67	
		(F) Materials Cost Escalation							254,334.44	
		(G) Released By Bank Construction No. 10/13/73			(3,315,583.69)				(-3,315,583.69)	
		GRAND TOTALS : RETENTION								
		GRAND TOTALS : NET CONTRACTOR							11,422,664.67	

DATE: Oct. 1 DELIVERED MONTHLY DISBURSEMENT PLAN
1978 FOR COMPLETION 1978 WORKING DAYS 0 C.C.O. PAYS 240
DATE: 08/20/79 PERCENT COMPLETED 0% PERCENT PAID 23.50% - SIGNATURE

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RAWI
HIGHWAY PROJECT
SECTION A

PROJECT RECORD - ESTIMATE

Period No. 60, Project No. 60, Date July 2, 1979
Period Dates 07/02/1979 thru 07/25/1979

RUPIAL
SHEET 1

Project No. 60
Section No. A

BID SCHD NO.	ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		BID SCHD NO.
						Quantity	Amount	Quantity	Amount	
		BASIC SUMS			1,315,852,215					
1.	0010	Mobilization	L.S.	-	41,462,050	-	-	3/5	41,462,050	1
2.	0011	Clearing and grubbing	Rec	32,517.5	7,791,210	95.52	2,925,055	175.53	5,452,866	2
3.	0012	Unclassified Excavation (2)	Cu.M.	124.5	21,517,000	-	-	1,219.00	19,174,763	3
4.	0013	Back Excavation	Cu.M.	165	8,300,000	(-) 219.75	(-) 36,477	48,647.03	8,077,097	4
5.	0014	Borrow Excavation (2)	Cu.M.	125.5	231,918,500	-	-	715,000.00	69,690,955	5
6.	0015	Fill Excavation	Cu.M.	58.1	1,185,240	435.00	25,332	26,219.47	1,527,316	6
7.	0016	Channel Excavation	Cu.M.	66.4	730,400	-	-	3,132.00	730,400	7
8.	0017	Excavation for Structures	Cu.M.	75.7	1,430,265	600.00	4,800	49,582.00	3,233,725	8
9.	0018	Bridge Excavation	Cu.M.	1,162	21,428,600	2,782.97	3,233,811	17,159.74	19,946,379	9
10.	0019	Subbit. Gravel Base Course (2)	Cu.M.	1,504	289,161,000	-	-	223,065.65	310,223,550	10
11.	0020	Subbit. Modification - 1st Course	Cu.M.	830	65,321,000	-	-	371,000	65,321,000	11
12.	0021	Hot bituminous Concrete Pavement (2)	Ton	1,460.8	116,571,000	-	-	77,058.22	116,571,000	12
13.	0022	Subbit. Course, 60-70 Penetration (2)	Ton	10,375	155,135,000	-	-	37,275.63	155,135,000	13
14.	0023	Top Coat, Asphalt Grade 60-70	Ton	18,524.5	8,291,700	-	-	185	8,291,700	14
15.	0024	Prime Coat, Asphalt Grade 60-70	Ton	16,392.5	12,130,350	-	-	103	12,130,350	15
16.	0025	Subbit. Course 1	Cu.M.	24.9	5,265,350	17,070.14	470,335	205,403.75	5,735,729	16
17.	0026	Subbit. Base Course	Cu.M.	2,281.5	41,989,000	152.37	301,600	114,929.02	42,290,829	17
18.	0027	Structural Steel Piles, Finished (2)	Lineal	954.5	18,870,465	-	-	27,642.25	18,870,465	18
19.	0028	Structural Steel Piles, Driven (2)	Each	11,329.5	13,152,720	-	-	2,132	13,152,720	19
20.	0029	Structural Steel Piles, Test Driven	Each	50,630	758,320	-	-	8	758,320	20
21.	0030	Test Tests	Each	141,100	282,200	-	-	-	282,200	21
22.	0031	Structural Concrete, Class A	Cu.M.	13,240	9,561,600	-	-	974.18	9,561,600	22
23.	0032	Structural Concrete, Class A1 (2)	Cu.M.	10,375	165,185,000	451.67	475,001	15,164.74	165,660,001	23
24.	0033	Structural Concrete, Class C	Cu.M.	6,640	2,656,000	4,558	20,411	232.30	2,680,963	24
25.	0034	Reinforcing Steel (2)	Kg.	33.2	57,924,040	15,533.00	15,533.00	1,289,265.00	59,746,308	25
26.	0035	Sta. 11-932, West Bridge	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	26
27.	0036	Sta. 12-527, West Bridge	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	27
28.	0037	Sta. 12-537, West Bridge	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	28
29.	0038	Sta. 12-540, West Bridge	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	29
30.	0039	Sta. 15-540, West Bridge	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	30
31.	0040	Sta. 17-050, Bridge	L.S.	-	15,959,655	5.00	77,833	100.00	15,959,655	31
32.	0041	Sta. 18-017, Bridge	L.S.	-	10,401,560	5.00	50,070	100.00	10,401,560	32
33.	0042	Sta. 18-073, East Bridge	L.S.	-	24,222,325	5.00	1,211,115	100.00	25,433,440	33
34.	0043	Sta. 18-073, West Bridge	L.S.	-	8,395,865	5.00	40,793	100.00	8,395,865	34
35.	0044	Sta. 18-800, East Bridge	L.S.	-	8,395,865	5.00	40,793	100.00	8,395,865	35
36.	0045	Sta. 18-800, West Bridge	L.S.	-	6,252,390	-	-	100.00	6,252,390	36
37.	0046	Sta. 19-010, East Bridge	L.S.	-	16,242,270	-	-	100.00	16,242,270	37
38.	0047	Sta. 19-010, West Bridge	L.S.	-	16,242,270	-	-	100.00	16,242,270	38
39.	0048	Sta. 20-804, East Bridge	L.S.	-	6,651,205	-	-	100.00	6,651,205	39
40.	0049	Sta. 20-804, West Bridge	L.S.	-	6,651,205	-	-	100.00	6,651,205	40
41.	0050	Sta. 21-409, East Bridge	L.S.	-	14,766,865	-	-	100.00	14,766,865	41
Sub-Totals							19,715,294		1,687,675,284	

VI. 6. MONTHLY PAY ESTIMATE No. 60

SECTION VI. APPENDIX

Best Available Document

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JAGORAWI
HIGHWAY PROJECT
SECTION 1A

PROJECT RECORD - ESTIMATE A

Period from 60 Estimate to 60 Date July 2, 1959
Period from 197 20, 1959 to 197 20, 1959

RUPIAH
SHEET 2

Approved by: [Signature]
Title: Asst. Engineering

BID SCHED NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHED NO.
						Quantity	Amount	Quantity	Amount	
42.	601B(1)	Sta. 21+450, West Bridge	1.0	-	15,775,895	-	-	15,775,895	-	42
43.	601B(2)	Sta. 25+465, East Bridge	1.0	-	6,451,205	-	-	6,451,205	-	43
44.	601B(3)	Sta. 25+455, West Bridge	1.0	-	6,651,205	-	-	6,651,205	-	44
45.	601B(4)	Sta. 29+800, East Bridge	1.0	-	5,241,450	-	-	5,241,450	-	45
46.	601B(5)	Sta. 29+800, West Bridge	1.0	-	5,241,450	-	-	5,241,450	-	46
47.	601B(6)	Sta. 10+850(BC), Bridge	1.0	-	11,925,455	-	-	11,925,455	-	47
48.	601B(7)	Sta. 12+270(BC), North Bridge	1.0	-	5,241,450	-	-	5,241,450	-	48
49.	601B(8)	Sta. 12+270(BC), South Bridge	1.0	-	5,241,450	-	-	5,241,450	-	49
50.	603(1)	40 Cc. Reinforced Concrete Pipe (2)	Lin.M	5,053	4,202,200	10	52,055	4,254,255	10	50
51.	603(2)	50 Cc. Reinforced Concrete Pipe (2)	Lin.M	5,395	701,350	-	-	701,350	-	51
52.	603(3)	60 Cc. Reinforced Concrete Pipe (2)	Lin.M	6,655	17,050,020	-	-	17,050,020	-	52
53.	603(4)	80 Cc. Reinforced Concrete Pipe (2)	Lin.M	7,760	27,792,580	-	-	27,792,580	-	53
54.	603(5)	100 Cc. Reinforced Concrete Pipe (2)	Lin.M	9,250	6,822,600	-	-	6,822,600	-	54
55.	603(6)	120 Cc. Reinforced Concrete Pipe (2)	Lin.M	12,201	16,037,180	-	-	16,037,180	-	55
56.	603(7)	60 Cc. Corrugated Steel Pipe	Lin.M	4,399	2,325,150	-	-	2,325,150	-	56
57.	603(8)	80 Cc. Corrugated Steel Pipe	Lin.M	6,100	305,025	-	-	305,025	-	57
58.	604(1)	Manhole, Type 1	Each	115,872	1,163,720	-	-	1,163,720	-	58
59.	604(2)	Manhole, Type 2	Each	195,427	1,163,565	-	-	1,163,565	-	59
60.	604(3)	Inlet, Type 1	Each	65,400	8,233,600	2	152,000	8,385,600	2	60
61.	604(4)	Inlet, Type 2	Each	63,195	3,231,750	-	-	3,231,750	-	61
62.	605(1)	20 Cc. Perforated Concrete Pipe	Lin.M	5,173	0,225,750	-	-	23,550	20	62
63.	606(1)	Galvanized Beam-Type Guardrail	Lin.M	4,233	11,757,250	925	4,152,550	16,909,800	25	63
64.	607(1)	Wire Fence	Lin.M	1,185	54,505,500	9,000	10,201,500	64,707,000	25	64
65.	607(2)	Gate, Single, 4.0M	Each	15,470	293,105	-	-	293,105	-	65
66.	607(3)	Gate, Double, 6.5M	Each	25,412	305,025	-	-	305,025	-	66
67.	609(1)	Concrete Curb, Type 1	Lin.M	1,507	2,102,450	720	1,215,350	3,317,800	720	67
68.	609(4)	Concrete Delineation Strip (CCO 38)	Lin.M	1,206	2,990,820	-	-	2,990,820	-	68
69.	609(3)	Bituminous Concrete Curb	Lin.M	927	12,631,985	-	-	12,631,985	-	69
70.	619(1)	Loose Riprap	Ton	2,205	1,650,300	1,992	5,737,225	7,387,525	72	70
71.	622(1)	Mortared Rubble Paved Waterway, Type A	Sq.M	1,834	9,538,350	202	1,472,820	11,011,170	202	71
72.	622(2)	Mortared Rubble Paved Waterway, Type B	Sq.M	1,162	4,161,200	2,834	3,209,940	7,371,140	2,834	72
73.	622(3)	Bituminous Paved Waterway	Sq.M	116	2,765,560	-	-	2,765,560	-	73
74.	623(1)	Formwork for Concrete	Sq.M	4,105	1,305,000	-	-	1,305,000	-	74
75.	624(1)	Furnishing and Placing Topsoil	Sq.M	29	915,075	-	-	915,075	-	75
76.	624(2)	Springing	Are	2,656	13,399,520	-	-	13,399,520	-	76
77.	625(3)	Sodding	Are	-	-	-	-	-	-	77
78.	620(1)	Concrete Block Slope Protection	Sq.M	2,573	2,830,300	-	-	2,830,300	-	78
79.	631(1)	Roadway Marking	Lin.M	83	1,033,350	23,910	108,453	1,141,803	23,910	79
80.	632(1)	Road Sign, Type A	Each	9,545	13,990	-	-	13,990	-	80
81.	632(2)	Road Sign, Type B	Each	4,191	83,820	-	-	83,820	-	81
82.	632(3)	Road Sign, Type C	Each	7,013	70,135	-	-	70,135	-	82
83.	632(4)	Road Sign, Type D	Each	6,889	205,670	-	-	205,670	-	83
84.	632(5)	Road Sign, Type E	Each	18,177	90,855	-	-	90,855	-	84
Sheet No. 2						Sub-Total		25,508,120		361,459,923

VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

**JAGORAWI
HIGHWAY PROJECT
SECTION A**

PROJECT RECORD-ESTIMATE

Period No. 60 Estimate No. 60 Date July 2, 1979
Period Dates: May 25, 1979 thru June 25, 1979

A RUPIAH
SHEET 3

Ammann & Whitney
Trans - Asia Engineering

BID ITEM NO	PAY ITEM NO	ITEMS	Unit	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) THIS ESTIMATE		(6) TOTAL ESTIMATE		BID CHG NO
						Quantity	Amount	Quantity	Amount	
101	111(2)	Road Sign, Type F 2	Each	10,000	65,035	-	-	-	-	85
102	111(3)	Road Sign, Type F 1	Each	12,430	52,200	-	-	-	-	86
103	111(4)	Road Sign, Type G 1	Each	4,565	13,695	-	-	-	-	87
104	111(5)	Road Sign, Type G 2	Each	17,845	71,370	-	-	-	-	88
105	111(6)	Road Sign, Type G 3	Each	24,020	24,070	-	-	-	-	89
106	111(7)	Road Sign, Type G 4	Each	92,170	403,020	-	-	-	-	90
107	111(8)	Road Sign, Type G 5	Each	27,512.5	155,625	-	-	-	-	91
108	111(9)	Road Sign, Type H 1	Each	110,320	1,103,000	-	-	-	-	92
109	111(10)	Road Sign, Type H 2	Each	59,129	295,895	-	-	-	-	93
110	111(11)	Road Sign, Type H 3	Each	50,630	303,770	-	-	-	-	94
111	111(12)	Road Sign, Type H 4	Each	91,400	223,000	-	-	-	-	95
112	111(13)	illumination system complete, project	L.S.	-	-	DELETED DURING BID NEGOTIATIONS	-	-	-	96
113	111(14)	Traffic Signal system complete, type A	L.S.	-	595,535	-	-	-	-	97
114	111(15)	Traffic Signal system complete, type B	L.S.	-	465,125	DELETED DURING BID NEGOTIATIONS	-	-	-	98
115	111(16)	Manhole, type A	Each	5510,000	6,610,000	5.00	160.00	160.00	6,610,500	99
116	111(17)	Manhole, type B	Each	5540,205	31,208,720	5.00	1,664,939	160.00	33,253,770	100
117	111(18)	Manhole, type C	Each	4532,430	4,532,430	5.00	223,122	100.00	4,532,400	101
118	111(19)	Manhole, type D	Each	-	-	DELETED DURING BID NEGOTIATIONS	-	-	-	102
119	111(20)	Contractor Warehouse	Each	15281545	15,281,545	-	-	55.00	14,517,428	103
120	111(21)	Contractor Shop	Each	10025330	10,025,330	2.50	262,135	67.50	9,833,197	104
121	111(22)	Contractor Job House & Seals	L.S.	-	2,413,700	2.00	29,133	100.00	2,394,567	105
122	111(23)	Engineer Office & Laboratory	L.S.	-	5,032,705	5.00	291,635	100.00	5,032,705	106
123	111(24)	Engineer Vehicles	L.S.	-	-	-	-	100.00	-	107
124	111(25)	Settlement Plate (CCO 51)	Each	13,300	665,000	-	-	25	332,500	108
125	111(26)	Man Pipe, 0.5M Inse (CCO 51)	Each	4,400	1,540,000	-	-	222	1,603,000	109
126	111(27)	Subdrain Junction Box (CCO 51)	Each	5,000	1,000,000	-	-	270	1,000,000	110
127	111(28)	CCO 112 2" Concrete Reinforcement Material	City	1,000	-	7.20	13,239,256	137,382	277,203,256	111
128	111(29)	CCO 9 Engineer Housing Civil Works	L.S.	-	2,810,035	5.00	220,505	100.00	2,810,035	112
129	111(30)	CCO 17 Sta. 10+59 (50) brow Inlet	L.S.	-	619,000	10.00	51,000	100.00	619,000	113
130	111(31)	CCO 18 Emer. Veh. Custody Rehab.	L.S.	-	2,024,228	-	-	100.00	2,024,228	114
131	111(32)	CCO 40 Emer. Lab/Off. Arch. Rev'n.	L.S.	-	3,516,000	5.00	175,700	100.00	3,516,000	115
132	111(33)	CCO 43 Sub Culvert Station 21+500	L.S.	-	2,303,000	5.00	193,400	100.00	2,303,000	116
133	111(34)	CCO 28 bridge strand Protection	Each	12,000	408,000	-	-	34	408,000	117
134	111(35)	CCO 48 Signal 2.5m from Main System	-	-	210,000	25.18	53,314	100.00	210,000	118
135	111(36)	CCO 10 Bridge Revision	-	-	745,000	-	-	100.00	745,000	119
136	111(37)	CCO 61 Wall/curb, Separation Work	-	-	1,976,000	-	-	100.00	1,976,000	120
137	111(38)	CCO 65 Culvert Sta. 25+07.50	-	-	2,529,000	-	-	99.78	2,529,000	121
138	111(39)	Stock Filed Items commitment (Est)	-	-	371	-	-	-	371	122
Sheet No. 3		Sub-Totals					16,926,764	74,379	27,501,125	
									277,322,658	

Best Available Document

VI. 6. MONTHLY PAY ESTIMATE NO. 60

SECTION VI ... APPENDIX

STATE OF CALIFORNIA
HIGHWAY PROJECT
SECTION A

PROJECT RAVENHOLM ESTIMATE
Period No. 69 Estimate No. 59 Date July 2, 1972
Period Dates July 29, 1972 thru April 29, 1979

KUPTAH

Section A
Truck - Building

Sheet 4

NO CCO	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		31 D SCHED NO.
						Quantity	Amount	Quantity	Amount	
CCO 72		Channel Revision Signal 12x20 H.C.	L.S							
CCO 80		Co. & adjustment of appr. base course	Cal	(-) 400.00	(-) 62,225.75	153.37	(-) 76,697	114,929.63	(-) 25,223.68	
CCO 67		Reduction/credit for U.S. AID Code 935 Shipping	L.S		5,795.67			100.00	5,795.67	
CCO 84		Dur's building extension & new parking lot	L.S	12,400	4,722,164			95.00	4,533,554	
CCO 92		Centerline survey monument	Each		450,000				450,000	
CCO 95		Bridge Sta. 114932 pier 2	L.S		(-) 409,114			100.00	(-) 409,114	
CCO 104		Dov Sta. 11425 D.C. & D.C.B Extension	L.S		2,257,144			100.00	2,257,144	
CCO 105		Utility Post Sta. 104036.50 IC							13,910.67	
CCO 105		Adjust of compensation					(-) 17,638		5,424,302	
CCO 87		Summ. 1 Reduction/credit for US AID Code 935 shipping			44,229,579			100.00	44,229,579	
CCO 74		Sec culvert Sta. 8-895 H # 5 & 1 15415			2,612,923			100.00	2,612,923	
CCO 37		Summ. 2 Reduction/credit for US AID Code 935 shipping			23,401,717			100.00	23,401,717	
CCO 122		Adjust of compensation Civil Coll Plaza			6,892,123			100.00	6,892,123	
CCO 31		Rev. 1 Construction extra work					516,666		17,036,781	
CCO 112		Sta. 18400 Grade Change								
CCO 113		Adjust of compensation revised Guard rail		503		992.10	497,026	3,873.25	1,496,224	
CCO 119		Traffic signal revision			46,633,683	20,782.11	9,651,207	95.00	46,214,556	
CCO 121		Incinerator Curb House at corner & Foot No. 245 IN 2 line work Section A					2,779,205		12,293,009	
CCO 101		Revised Paved parking	Lall	5.50		23,510	133,895	103,947	582,074	
CCO 103		3 Line Adm'l Barbed Wire Fence	Lall	32.43		9,000	300,870	44,000	1,442,970	
CCO 121		Adjust of compensation Permanent Road Sign					5,000,000		22,100,000	
CCO 119		Summ. Incl Adm'l Signal revision							6,769,155	
CCO 67		Summ. No. 3 Reduction/credit for US AID Code 935 Shipping			92,942,503	88,500.71	82,266,391		92,942,503	
CCO 104		Adjust of compensation	L.S						41,667,354	
Sheet No. 4 Sub Totals							101,644,117		395,939,555	

VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

JAGOPAWA
 HIGHWAY PROJECT
 SECTION - A

PROJECT RECORD - ESTIMATE

Period No. 60 Estimate No. 60 Date July 3, 1972
 Period Dates: May 25, 1972 thru June 25, 1972

RUPIAH
 SHEET 5

Assaan 3 Highway
 Trans - Asia Engineering

SHEET NO	PAY ITEM NO	ITEMS	Unit	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		CID/ CURR No
						Quantity	Amount	Quantity	Amount	
		Sheet No. 5 Sub Totals								
		Sheet No. 1 Sub Totals				13,715,344		1,631,675,112		
		Sheet No. 2 Sub Totals				26,558,120		31,459,024		
		Sheet No. 3 Sub Totals				16,925,264		272,708,000		
		Sheet No. 4 Sub Totals				101,224,112		276,020,000		
		SUB-TOTALS ; CONTRACT ITEMS				158,875,744		2,831,400,228		
		(A) Time and Materials Extra Work								
		(B) Adjustment Compensation								
		SUB-TOTALS ; WORK DONE				158,875,744		2,831,400,228		
		(C) Materials on Hand				(-) 160,000		2,200,000		
		(D) Materials Cost Escalation				3,279,310		27,150,000		
		(E) Labor Cost Escalation				5,977,873		33,978,212		
		SUB-TOTALS ; WORK DONE, MATERIALS, COST ESCL.				167,971,499		2,951,271,729		
		(F) Deduct 2% Retention				2,323,563		69,215,812		
		(G) Deduct 20% Advance Payment						191,000,000		
		(H) Released by Bank Guarantee No. 20/175/00 (Rp 91,661,619 - Rp 28,713,110)						(-) 62,948,549		
		SUB-TOTALS ; DEDUCTIONS				2,323,563		129,052,494		
		TOTAL AMOUNT DUE CONTRACTOR				165,647,936		2,957,679,225		

DATE WORK STARTED Oct. 1 1972 ESTIMATED DATE FOR COMPLETION June 30 1972 WEATHER MON WORKING DAYS 0 C.C.O DAYS 209 OTHER ALLOWABLE DAYS 0 PERCENT COMPLETED 118.41 PERCENT TIME ELAPSED 99.71% SIGNATURE

VI. 6. MONTHLY PAY ESTIMATE No. 60

SECTION VI . . . APPENDIX

MAJORAWI
HIGHWAY PROJECT
SECTION 8

PROJECT RECORD - ESTIMATE B
Period No. 60 Estimate No. 60 Date July 2, 1979
Period Dates From 25, 1979 thru June 25, 1979

RUTAIL
SHEET 2

Amman & Shneyr
Trans. And Engineering

VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

BID SCHD (C)	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHD NO.		
						Quantity	Amount	Quantity	Amount			
72	60181(9)	STA. 49+35, East Bridge	1-2	-	4,712,740	DELETED	PER CCO NO. 26	-	-	42		
73	60181(9)	STA. 49+35, West Bridge	1-2	-	4,712,740	DELETED	PER CCO NO. 26	-	-	43		
74	60181(10)	STA. 51+70, North Bridge	1-2	-	13,682,135	-	-	-	62,395	8,536,210	44	
75	60181(12)	STA. 51+70, South Bridge	1-2	-	13,682,135	-	-	-	26,667	9,019,971	45	
76	60181(21)	STA. 53+730, Bridge (Box For CCO 26)	1-2	-	16,437,000	-	-	100.00	-	16,437,000	46	
77	60181(21)	STA. 54+506, East Bridge	1-2	-	5,963,135	DELETED	PER CCO NO. 26	-	-	-	47	
78	60181(21)	STA. 54+506, West Bridge	1-2	-	5,963,135	DELETED	PER CCO NO. 26	-	-	-	48	
79	60181(21)	STA. 56+535, East Bridge	1-2	-	7,803,850	DELETED	PER CCO NO. 26	-	-	-	49	
80	60181(21)	STA. 56+535, West Bridge	1-2	-	7,803,850	DELETED	PER CCO NO. 26	-	-	-	50	
81	60181(21)	STA. 57+580, Bridge	1-2	-	13,658,065	-	-	100.00	-	13,658,065	51	
82	6051(1)	60cm. Reinforced Concrete Pipe (2)	lin.f.	4,900	4,083,600	-	-	275	60	1,368,775	52	
83	6051(1)	60cm. Reinforced Concrete Pipe (2)	lin.f.	5,395	4,208,100	-	-	700	20	3,185,911	53	
84	6051(1)	60cm. Reinforced Concrete Pipe (2)	lin.f.	6,606	25,458,470	-	-	2,825	05	19,227,354	54	
85	6051(1)	60cm. Reinforced Concrete Pipe (2)	lin.f.	7,760	28,015,400	-	-	-	718	67	5,577,220	55
86	6051(1)	100cm. Reinforced Concrete Pipe (2)	lin.f.	9,960	10,707,000	-	-	-	1,042	44	10,222,702	56
87	6051(1)	120cm. Reinforced Concrete Pipe (2)	lin.f.	10,375	30,969,375	-	-	-	2,112	88	21,597,130	57
88	6051(1)	60cm. Corrugated Steel Pipe	lin.f.	3,735	2,539,800	-	-	-	262	19	472,250	58
89	6051(1)	60cm. Corrugated Steel Pipe	lin.f.	4,980	249,000	-	-	-	-	-	-	59
90	6041(1)	Manhole, Type 1	each	105,825	2,116,500	-	-	-	-	-	-	60
91	6041(2)	Manhole, Type 2	each	179,780	717,120	-	-	-	-	-	-	61
92	6041(1)	Inlet, Type 1	each	30,295	4,665,430	-	-	-	113	-	3,423,355	62
93	6041(1)	Inlet, Type 2	each	58,930	2,651,850	-	-	-	3	-	176,700	63
94	6051(1)	20cm. Perforated Concrete Pipe	lin.f.	4,900	1,494,000	-	-	53,490	90	266,720,650	64	
95	6071(1)	Galvanized Beam-Type Guardrail	lin.f.	4,150	13,944,000	-	-	5,710	-	23,696,500	65	
96	6071(1)	Wire Fence	lin.f.	581	35,150,500	-	-	59,099	12	34,336,680	66	
97	6071(1)	Gate, Single, 4.0M	each	13,280	212,480	-	-	-	1	13,280	67	
98	6071(1)	Gate, Double, 6.5M	each	23,240	418,320	-	-	-	4	62,520	68	
99	6051(1)	Concrete Curb, Type 1	lin.f.	1,079	2,211,950	-	-	-	4,331	04	4,629,762	69
100	6051(1)	Concrete Curb, Type 2	lin.f.	2,281	9,287,840	DELETED	PER CCO NO. 29	-	-	-	70	
101	6051(1)	Concrete Curb, Type 3	lin.f.	913	13,640,220	-	-	-	-	-	-	71
102	6051(1)	Concrete Curb, Type 4	lin.f.	2,905	561,000	-	-	2,027	15	5,488,100	72	
103	6051(1)	Reinforced Concrete Paved Waterway, Type A	sq.f.	1,411	35,275,000	-	-	6,431	66	11,657,050	73	
104	6051(1)	Reinforced Concrete Paved Waterway, Type B	sq.f.	1,079	3,227,000	-	-	9,055	05	2,770,410	74	
105	6051(1)	Reinforced Concrete Paved Waterway	sq.f.	115	1,581,150	-	-	-	-	-	-	75
106	6051(1)	Reinforced Concrete Paved Waterway	sq.f.	4,905	1,071,550	DELETED	PER CCO NO. 2	-	-	-	76	
107	6051(1)	Reinforcing and Slacing Topsoil	sq.f.	79	2,254,250	-	-	-	-	-	-	77
108	6051(1)	Reinforcing and Slacing Topsoil	sq.f.	2,650	10,216,160	-	-	-	9,532	17	29,250,300	78
109	6051(1)	Concrete Bl. w/ Slope Protection	sq.f.	2,100	9,337,500	DELETED	PER CCO NO. 2	-	-	-	79	
110	6051(1)	Concrete Bl. w/ Slope Protection	sq.f.	8	1,283,610	-	-	129,843	00	1,077,092	80	
111	6051(1)	Concrete Bl. w/ Slope Protection	sq.f.	13,200	132,500	-	-	-	-	-	-	81
112	6051(1)	Concrete Bl. w/ Slope Protection	sq.f.	10,700	323,700	-	-	-	-	-	-	82
113	6051(1)	Concrete Bl. w/ Slope Protection	sq.f.	13,655	479,325	-	-	-	-	-	-	83
		Sub-totals								500,000,705		

JAGORAWI
HIGHWAY PROJECT
SECTION B

PROJECT RECORD-ESTIMATE

Period No. 60 Estimate No. 60 Date July 2, 1979
Period Dates July 2, 1979 thru June 25, 1979

RUPIAH
SHEET 3 Ammann & Whitney
Trans-Asia Engineering

Best Available Document

SECTION VI APPENDIX

VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

BID SCHED NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		BID SCHED NO.
						Quantity	Amount	Quantity	Amount	
100.0010	100.0010	Road Sign, Type D	Each	10,790	323,700	-	-	-	-	85
100.0011	100.0011	Road Sign, Type E 1	Each	45,895	230,475	-	-	-	-	86
100.0012	100.0012	Road Sign, Type E 2	Each	53,950	529,500	-	-	-	-	87
100.0013	100.0013	Road Sign, Type F 1	Each	48,140	288,840	-	-	-	-	88
100.0014	100.0014	Road Sign, Type G 1	Each	3,235	29,880	-	-	-	-	89
100.0015	100.0015	Road Sign, Type G 2	Each	52,390	156,870	-	-	-	-	90
100.0016	100.0016	Road Sign, Type G 3	Each	83,415	834,150	-	-	-	-	91
100.0017	100.0017	Road Sign, Type G 4	Each	28,850	194,250	-	-	-	-	92
100.0018	100.0018	Road Sign, Type G 5	Each	24,285	371,475	-	-	-	-	93
100.0019	100.0019	Road Sign, Type H 1	Each	104,580	2,091,600	-	-	-	-	94
100.0020	100.0020	Road Sign, Type H 2	Each	56,440	112,880	-	-	-	-	95
100.0021	100.0021	Road Sign, Type H 3	Each	45,140	192,560	-	-	-	-	96
100.0022	100.0022	Road Sign, Type H 4	Each	82,150	522,800	-	-	-	-	97
100.0023	100.0023	Illustration System Complete, Serv. B	Lot	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	98
100.0024	100.0024	Illustration System Complete, Serv. C	Lot	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	99
100.0025	100.0025	Painting, Type A	Each	6610,950	6,610,950	-	-	95.00	6,280,400	100
100.0026	100.0026	Painting, Type B	Each	5549,795	32,298,270	-	-	95.00	31,653,850	101
100.0027	100.0027	Painting, Type C	Each	4582,430	4,582,430	-	-	95.00	4,353,590	102
100.0028	100.0028	Painting, Type D	Each	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	103
100.0029	100.0029	Contractor Warehouse	Each	14750345	14,750,345	-	-	100.00	14,750,345	104
100.0030	100.0030	Contractor Shop	Each	9639,835	9,639,835	-	-	100.00	9,639,835	105
100.0031	100.0031	Contractor's Office & Laboratory	L.S.	2,730,700	2,730,700	-	-	100.00	2,730,700	106
100.0032	100.0032	Engineer's Vehicles	L.S.	4,825,500	4,825,500	-	-	100.00	4,825,500	107
100.0033	100.0033	Settlement Plate (CGO 7)	Each	13,300	1,064,000	-	-	-	-	108
100.0034	100.0034	Beam Man, O.C. Lamp (CGO 7)	Each	4,400	4,224,000	-	-	9.00	4,060,800	109
100.0035	100.0035	Handrail Junction Box (CGO 7)	Each	5,000	2,000,000	-	-	6.75	3,375,000	110
100.0036	100.0036	Handrail Junction Box (CGO 26)	L.S.	-	2,714,585	-	-	100.00	2,714,585	111
100.0037	100.0037	Handrail Junction Box (CGO 26)	L.S.	-	11,275,445	-	-	100.00	11,275,445	112
100.0038	100.0038	Concrete Delimitation Strip	Litu.H.	1,262	8,031,500	-	-	-	-	113
100.0039	100.0039	Concrete Delimitation Strip	Litu.H.	-	3,030,000	-	-	100.00	3,030,000	114
100.0040	100.0040	Concrete Delimitation Strip	Litu.H.	-	501,850	-	-	100.00	501,850	115
100.0041	100.0041	Concrete Delimitation Strip	Litu.H.	-	2,024,228	-	-	100.00	2,024,228	116
100.0042	100.0042	Concrete Delimitation Strip	Litu.H.	-	70,000	-	-	100.00	70,000	117
100.0043	100.0043	Concrete Delimitation Strip	Litu.H.	-	1,052,000	-	-	100.00	1,052,000	118
100.0044	100.0044	Concrete Delimitation Strip	Litu.H.	-	9,272,000	-	-	100.00	9,272,000	119
100.0045	100.0045	Concrete Delimitation Strip	Litu.H.	-	130,000	-	-	100.00	130,000	120
100.0046	100.0046	Concrete Delimitation Strip	Litu.H.	-	18,000	-	-	100.00	18,000	121
100.0047	100.0047	Concrete Delimitation Strip	Litu.H.	-	501,000	-	-	100.00	501,000	122
100.0048	100.0048	Concrete Delimitation Strip	Litu.H.	-	2,100,000	-	-	100.00	2,100,000	123
100.0049	100.0049	Concrete Delimitation Strip	Litu.H.	-	-	-	-	100.00	-	124
100.0050	100.0050	Concrete Delimitation Strip	Litu.H.	-	-	-	-	100.00	-	125

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SECTION VI

Period No. 60 Estimate No. 60 Dated July 2, 1971
 Period Dates: May 26, 1971 thru August 22, 1971

PAGE 4

Section 1. This is a Monthly Pay Estimate

BID NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID PRICE
						Quantity	Amount	Quantity	Amount	
	000	41 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		7,500.00			100.00	7,500.00	
	000	42 Utility Parts, 50' x 15' x 50' x 50'	L.S.		1,225.00			100.00	1,225.00	
	000	43 Pipe, 18" x 24", 10' x 10' x 10'	L.S.	8,000	120,000			100.00	120,000	
	000	44 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		6,000.00			100.00	6,000.00	
	000	45 Waterway Sta'n 34110 & 34125	Stationed L.S.		1,000.00			100.00	1,000.00	
	000	52 Pipe, 18" x 24", 10' x 10' x 10'	L.S.	- 240	(-) 1,120.00			100.00	(-) 1,120.00	
	000	53 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		1,500.00			100.00	1,500.00	
	000	54 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		1,200.00			100.00	1,200.00	
	000	55 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		250.00			100.00	250.00	
	000	56 Utility Parts, 50' x 15' x 50' x 50'	L.S.		5,200.00			100.00	5,200.00	
	000	57 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		5,200.00			100.00	5,200.00	
	000	58 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		5,200.00			100.00	5,200.00	
	000	59 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		110.00			100.00	110.00	
	000	60 Inlet, Cement, Cont. Retention	L.S.		(-) 2,200.00			100.00	(-) 2,200.00	
	000	73 Inlet, 50' x 25' Retention Conduit	L.S.		60.00			100.00	60.00	
	000	75 Inlet, 50' x 25' Retention Conduit	L.S.		60.00			100.00	60.00	
	000	76 Inlet, 50' x 25' Retention Conduit	L.S.		3,700.00			100.00	3,700.00	
	000	77 Electric Conduit, 18" x 50' x 75'	L.S.		1,100.00			100.00	1,100.00	
	000	78 Pipe, 18" x 24", 10' x 10' x 10'	L.S.		15,300.00			100.00	15,300.00	
	000	79 Inlet, 50' x 25' Retention Conduit	L.S.		52,200.00			100.00	52,200.00	
	000	80 Inlet, 50' x 25' Retention Conduit	L.S.		6,000.00			100.00	6,000.00	
	000	81 Inlet, 50' x 25' Retention Conduit	L.S.		82,100.01			100.00	82,100.01	
	000	82 Inlet, 50' x 25' Retention Conduit	L.S.		7,100.00			100.00	7,100.00	
	000	83 Inlet, 50' x 25' Retention Conduit	L.S.		2,000.00			100.00	2,000.00	
	000	84 Inlet, 50' x 25' Retention Conduit	L.S.	12,500	6,250.00			100.00	6,250.00	
	000	85 Inlet, 50' x 25' Retention Conduit	L.S.		1,200.00			100.00	1,200.00	
	000	86 Inlet, 50' x 25' Retention Conduit	L.S.		25,000.00			100.00	25,000.00	
	000	87 Inlet, 50' x 25' Retention Conduit	L.S.		20,000.00			100.00	20,000.00	
	000	88 Inlet, 50' x 25' Retention Conduit	L.S.		6,200.00			100.00	6,200.00	
	000	89 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	90 Inlet, 50' x 25' Retention Conduit	L.S.		2,600.00			100.00	2,600.00	
	000	91 Inlet, 50' x 25' Retention Conduit	L.S.		60.00			100.00	60.00	
	000	92 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	93 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	94 Inlet, 50' x 25' Retention Conduit	L.S.		2,600.00			100.00	2,600.00	
	000	95 Inlet, 50' x 25' Retention Conduit	L.S.		60.00			100.00	60.00	
	000	96 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	97 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	98 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	99 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	100 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	101 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	102 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	103 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	104 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	105 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	106 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	107 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	108 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	109 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	110 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	111 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	112 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	113 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	114 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	115 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	116 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	117 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	118 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	119 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	120 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	121 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	122 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	123 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	124 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	125 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	126 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	127 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	128 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	129 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	130 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	131 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	132 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	133 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	134 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	135 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	136 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	137 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	138 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	139 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	140 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	141 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	142 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	143 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	144 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	145 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	146 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	147 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	148 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	149 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	150 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	151 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	152 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	153 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	154 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	155 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	156 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	157 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	158 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	159 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	160 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	161 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	162 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	163 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	164 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	165 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	166 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000	167 Inlet, 50' x 25' Retention Conduit	L.S.		300.00			100.00	300.00	
	000									

(5) (6) (7) (8)

NO.	REV.	ITEMS	UNITS	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BIF. SCH. CO.
						Quantity	Amount	Quantity	Amount	
200	20	Heavy loading at certain by pass	L.S.		21,577,307	-	-	100.00	21,577,307	
201	17	Cost of construction	L.S.		7,521,567	-	-	100.00	7,521,567	
202	13	Cost of miscellaneous extra work Section B					921,613		14,020,650	
203	27	Instal. 2 Reduction/Credit for U.S. AIA Code 955 Shipping	L.S.		101,149,917	-	-	100.00	101,149,917	
200	118	L.S. Adjustment Conc. Card Type 1			484,423	-	-	107.65	521,567	
200	119	Adjust of compensation revised Card 1511	L.H.	565	50	-	-	2,710	3,229,005	
200	111	Working Course Reduction	L.S.		(-112,923,967)	-	-	100.00	(-112,923,967)	
200	133	V.S. increase for smoothness of working course	L.S.		21,352,770	-	-		21,352,770	
200	107	Payment final AIA					5,000,000		23,580,000	
200	27	Instal. 2 Reduction/Credit for U.S. AIA Code 955 Shipping			50,818,594	-	-	100.00	50,818,594	
200	120	Payment final AIA	L.S.		272,000	272,000	272,000	100.00	272,000	
									5,293,518	
									243,357,600	

VI. 6. . . . MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

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ITEM NO.	ITEM DESCRIPTION	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		BID NO.
				Quantity	Amount	Quantity	Amount	
	Sheet No. 5 Sub Totals				-		2,217,142.90	
	Sheet No. 1 Sub Totals				-		579,291,284	
	Sheet No. 2 Sub Totals				-		122,772,652	
	Sheet No. 3 Sub Totals				-		22,020,822	
	Sheet No. 4 Sub Totals				6,193,618		282,257,621	
	ADJUSTMENTS: CONTRACT ITEMS				6,193,618		5,420,621,621	
	(A) Time and Materials Extra Work				-		-	
	(B) Adjustment Compensation				-		-	
	ADJUSTMENTS: WORK DONE				6,193,618		3,374,621,621	
	(C) Materials on Hand				-		-	
	(D) Materials Cost Recalculation				-		186,577,271	
	(E) Labor Cost Recalculation				-		7,120,271	
	ADJUSTMENTS: LABOR COST, MATERIALS, COST ESTIM.				6,193,618		3,679,121,621	
	(F) Deduct 25% Retention				1,620,407		69,716,284	
	(G) Deduct 20% Advance Payment				-		222,222,222	
	(H) Added by Rev. Certificate 12/25/78 (No. 12,652,822) To 40,153,556				-		(126,127,213)	
	ADJUSTMENTS: DEDUCTIONS				1,270,467		242,102,051	
	GRAND TOTAL FOR CONTRACT				4,923,151		9,236,992,626	

PERCENT COMPLETED 100.6% PERCENT TIME ELAPSED 123.50%
 OTHER ALLOWABLE DAYS 0 C.C.O. DAYS 240 SIGNATURE

VI. 6. MONTHLY PAY ESTIMATE NO. 60

SECTION VI APPENDIX

Best Available Document

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REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY AID Loan : No. 497 - H - 031 Contract : No. 23/CTR/LN/BM/73 Contractor : HYUNDAI CONSTRUCTION CO., LTD. Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Date : August 21, 1979 Pay Estimate No. : 61 SECTION/DOLLAR Invoice No. : HD/D/A-60 Section : A Remarks :
---	--

TOTAL MONTHLY/DOLLAR VALUE OF CONTRACT : US\$ 9,618,125.12

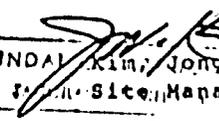
Description	SECTION/DOLLAR TOTAL
Total Amount of Work Completed	10,092,357.46
Total Amount Previously Credited	10,055,846.78
Total Amount Being Invoiced for Payment	36,511.31
Less 10% Retention	-
Less 20% Advance Payment	-
Total Amount to be deducted	-

Total Amount to be paid to the Contractor US\$ 36,511.31

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. US\$ 18,265,332.00

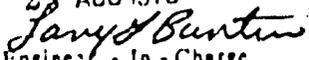
Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. US\$ 369,457.00

CONTRACTOR CERTIFICATION OF PERFORMANCE
 The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.


 YUNDAI KIM, JONG MOON CO. LTD.
 Site Manager
JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/D/A-60 covering Pay Estimate No. 61 on the 21th day of Aug. 1979 at 15:00 hours.

23 AUG 1979

 Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE
 The undersigned certifies that :

- The services (or equipment and materials) for which requested has been satisfactorily delivered;
- The costs there of are properly payable in accordance of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the Contract;
- Source and origin of equipment and materials for this project subject to section 106.02 of the Special Provisions of the Contract and to future audit.

Date : 23 AUG 1979


 Larry G. Buntun
 Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

Approved for Payment J. Hendro Moeljono Project Manager JAGORAWI HIGHWAY PROJECT	1. Date : _____ 2. Date : _____	J.B. Soemarga Soemartmadja Director of Construction JAGORAWI HIGHWAY PROJECT
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**REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA**

**INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE**

Project : JAGORAWI HIGHWAY	Date : August 21, 1979
AID Loan : No. 497 - II - 031	Pay Estimate No. : 61
Contract : No. 23/CTR/LN/BM/73	MARK/DOLLAR Invoice No. : HD/D/B-60
Contractor : HYUNDAI CONSTRUCTION CO., LTD.	Section : B
Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Remarks :

TOTAL MARK/DOLLAR VALUE OF CONTRACT : **US\$ 11,855,777.45**

Description	MARK/DOLLAR TOTAL
Total Amount of Work Completed	11,546,290.25
Total Amount Previously Credited	11,422,664.67
Total Amount Being Invoiced for Payment	123,625.58
Less 10% Retention	-
Less 20% Advance Payment	-
Total Amount to be deducted	-

Total Amount to be paid to the Contractor **US\$ 123,625.58**

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. **US\$ 17,776,299.00**

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. **-**

CONTRACTOR CERTIFICATION OF PERFORMANCE

The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.

[Signature]
HYUNDAI CONSTRUCTION CO., LTD.
Site Manager
JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/D/B-60 covering Pay Estimate No. 61 on the 21th day of Aug. '79 at 12:00 hours.

[Signature]
Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

The undersigned certifies that :

- The services (or equipment and materials) for which payment requested has been satisfactorily delivered;
- The costs there of are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
- Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and to future audit.

DATE : 23 AUG 1979

[Signature]
Harry G. Buntan
Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

Approved for Payment	1. Date : _____	2. Date : _____
	J. Hendro Moeljono Project Manager JAGORAWI HIGHWAY PROJECT	J.B. Soemarga Soemnatmadja Director of Construction JAGORAWI HIGHWAY PROJECT



REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY	Date : August 21, 1979
AID Loan : No. 497 - H - 031	Pay Estimate No. : 61
Contract : No. 23/CTR/LN/BM/73	RUPIAH/DOLLAR Invoice No. : HD/R/A-60
Contractor : HYUNDAI CONSTRUCTION CO., LTD.	Section : A
Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Remarks :

TOTAL RUPIAH/DOLLAR VALUE OF CONTRACT : Rp 2,612,632,480.-

Description	RUPIAH/DOLLAR TOTAL
Total Amount of Work Completed	3,168,181,133.-
Total Amount Previously Credited	3,151,731,729.-
Total Amount Being Invoiced for Payment	16,449,404.-
Less 10% Retention	-
Less 20% Advance Payment	-
Total Amount to be deducted	-

Total Amount to be paid to the Contractor Rp 16,449,404.-

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. Rp 6,640,087,010.-

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. Rp 73,060,813.-

CONTRACTOR CERTIFICATION OF PERFORMANCE

The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.

[Signature]
YUNDAI CONSTRUCTION CO. LTD.
Site Manager
JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/R/A-60 covering Pay Estimate No. 61 on the 21th day of Aug. 1979 at 15:00 hours.

23 AUG 1979
[Signature]
Engineer - In Charge
JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

The undersigned certifies that :

- The services (or equipment and materials) for which payment requested has been satisfactorily delivered;
- The costs thereof are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
- Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and to future audit.

Date : 23 AUG 1979

[Signature]
Harry G. Buntan
Engineer - In Charge
JAGORAWI HIGHWAY PROJECT

Approved for Payment

J. Hendro Moeliono
Project Manager
JAGORAWI HIGHWAY PROJECT

J.B. Soemarga Soemaatmadja
Director of Construction
JAGORAWI HIGHWAY PROJECT



**REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM DAN TENAGA LISTRIK
DIREKTORAT JENDERAL BINA MARGA**

**INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE**

Project : JAGORAWI HIGHWAY	Date : August 21, 1979
AID Loan : No. 497 - H - 031	Pay Estimate No. : 61
Contract : No. 23/CTR/LN/BM/73	RUPIAH/DOLLAR Invoice No. :HD/R/B-60
Contractor : HYUNDAI CONSTRUCTION CO., LTD.	Section : B
Engineer : AMMANN & WHITNEY TRANSASIA ENGI ERING ASSOC. INC.	Remarks :

TOTAL RUPIAH/DOLLAR VALUE OF CONTRACT : Rp 3,605,868,002.-

Description	RUPIAH/DOLLAR	TOTAL
Total Amount of Work Completed		3,652,404,985.-
Total Amount Previously Credited		3,629,101,679.-
Total Amount Being Invoiced for Payment		23,303,306.-
Less 10% Retention	(-) 3,279,387	
Less 20% Advance Payment	-	
Total Amount to be deducted	(-) 3,279,387	(-) 3,279,387.-

Total Amount to be paid to the Contractor Rp 26,582,693.-

Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract. Rp 5,275,276,855.-

Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed. -

CONTRACTOR CERTIFICATION OF PERFORMANCE

The undersigned certifies that the cost reimbursable to the Contractor and the Amount payable to the Contractor in accordance with the terms of the Contract, up to the date of this Certificate, are not less than the total Payments received or claimed by the Contractor under the Contract (including the payment claimed under this invoice), and that the Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.

[Signature]
Kim Jong Won
Site Manager
HYUNDAI CONSTRUCTION CO. LTD.
JAGORAWI HIGHWAY PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Hyundai Construction Co., Ltd. Invoice No. HD/R/B-60 covering Pay Estimate No. 61 on the 21th day of Aug. 79 at 15:00 hours.

23 AUG 1979
[Signature]
Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

The undersigned certifies that :

- The services (or equipment and materials) for which payment is requested has been satisfactorily delivered;
- The costs thereof are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;
- Source and origin of equipment and materials for this project are subject to section 106.02 of the Special Provisions of the Contract and to future audit.



Date : 23 AUG 1979
[Signature]
Garry G. Buntan
Engineer - In - Charge
JAGORAWI HIGHWAY PROJECT

Approved for Payment	1. Date :	2. Date :
	J. Hendro Moeljono Project Manager JAGORAWI HIGHWAY PROJECT	J.H. Soemarga Soematmadja Director of Construction JAGORAWI HIGHWAY PROJECT

**JAGORAWI
HIGHWAY PROJECT
SECTION A**

PROJECT RECORD - ESTIMATE

A

DOLLAR-SHEET 1

Amman & Ghossein
Trans. Assn. Engineering

Period No. 51 Estimate No. 61 Date August 2, 1972
Period Dates SEP 25, 1972 TO JULY 25, 1979

BID NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		BID SCHED NO.
						Quantity	Amount	Quantity	Amount	
		BASIC TOTAL			10,116,879					
1.	102(1)	Mobilization	L.S.	-	2,087,316	-	-	3/3	2,087,316.00	
2.	102(1)	Cleaning and Grubbing	Yac	122	30,754	2,56	312.32	1/9	21,192.68	
3.	102(1)	Enclosed Excavation	(2) Cu.M	0.91	595,333	-	-	1,219,000	1,103,333.00	
4.	102(2)	Barric Excavation	(2) Cu.M	1.16	58,000	-	-	48,662	55,447.95	
5.	102(2)	Barric Excavation	(2) Cu.M	0.55	1,210,820	-	-	715,500	455,133.50	
6.	102(5)	Ditch Excavation	Cu.M	0.30	6,120	1,585.00	414.91	27,672	8,521.73	
7.	102(5)	Channel Excavation	Cu.M	0.83	4,730	-	-	8,132	3,497.15	
8.	102(1)	Excavation for Structures	Cu.M	0.86	9,177	2,371.00	1,090.66	51,952	23,895.35	
9.	102(2)	Bridge Excavation	Cu.M	9.60	194,880	-	-	17,139	164,541.50	
10.	102(3)	Asphalt Treated Base Course	(2) Ton	3.70	708,550	172.73	653.20	221,242	838,554.54	
11.	102(1)	Subgrade Modification-line Treated	Cu.M	7.50	196,750	-	-	207	517.50	
12.	102(1)	Hot Bituminous Concrete Pavement	(2) Ton	5.35	426,930	0.05	0.32	77,245	412,000.25	
13.	102(2)	Asphalt Cement, 60-70 Penetration	(2) Ton	50	750,000	3.20	160.00	17,229	834,629.50	
14.	102(1)	Top Coat, Asphalt Grade B-250	Ton	124	55,800	-	-	145	17,522.00	
15.	102(1)	Prime Coat, Asphalt Grade 10-70	Ton	120	88,800	-	-	4.03	455.50	
16.	102(1)	Seal Coat, Type 3	Sq.M	0.16	37,840	-	-	205,402	769,200.00	
17.	102(1)	Aggregate Base Course	Cu.M	4	73,600	353.01	1,412.04	115,262	451,170.00	
18.	102(1)	Structural Steel Piles, Punched	(2) Lin.Y	31	612,870	-	-	27,532	876,612.00	
19.	102(2)	Structural Steel Piles, Driven	(2) Each	90	104,400	-	-	2,132	192,000.00	
20.	102(5)	Structural Steel Piles, Test Driven	Each	479	6,706	-	-	8	3,200.00	
21.	102(5)	Test Piles	Each	1,945	1,890	-	-	-	-	
22.	101(1)	Structural Concrete, Class A	Cu.M	21	16,560	-	-	954	21,054.00	
23.	101(2)	Structural Concrete, Class AA	(2) Cu.M	34	542,640	43.91	1,492.94	15,255	518,200.70	
24.	101(3)	Structural Concrete, Class C	Cu.M	24.72	9,888	-	-	232	5,232.00	
25.	102(1)	Reinforcing Steel	(2) Kg.	0.25	426,175	4,024	1,005.00	1,602,167	452,000.00	
26.	101(1)	Sta. 11+932, East Bridge	L.S.	-	-	DELETED	DURING BID NEGOTIATIONS	-	-	
27.	101(2)	Sta. 11+932, West Bridge	L.S.	-	150,581	-	-	100.00	400,000.00	
28.	101(1)	Sta. 13+537, East Bridge	L.S.	-	DELETED	DELETED	DURING BID NEGOTIATIONS	-	-	
29.	101(2)	Sta. 13+587, West Bridge	L.S.	-	80,271	-	-	100.00	80,271.00	
30.	101(1)	Sta. 13+549, East Bridge	L.S.	-	DELETED	DELETED	DURING BID NEGOTIATIONS	-	-	
31.	101(2)	Sta. 15+540, West Bridge	L.S.	-	79,866	-	-	100.00	79,866.00	
32.	101(1)	Sta. 17+250, Bridge	L.S.	-	49,322	-	-	100.00	49,322.00	
33.	101(2)	Sta. 13+017, Bridge	L.S.	-	89,365	-	-	100.00	89,365.00	
34.	101(1)	Sta. 18+073, East Bridge	L.S.	-	18,993	-	-	100.00	18,993.00	
35.	101(1)	Sta. 18+073, West Bridge	L.S.	-	18,993	-	-	100.00	18,993.00	
36.	101(1)	Sta. 18+800, East Bridge	L.S.	-	32,713	-	-	100.00	32,713.00	
37.	101(1)	Sta. 18+800, West Bridge	L.S.	-	30,713	-	-	100.00	30,713.00	
38.	101(1)	Sta. 19+930, East Bridge	L.S.	-	80,528	-	-	100.00	80,528.00	
39.	101(1)	Sta. 19+930, West Bridge	L.S.	-	80,508	-	-	100.00	80,508.00	
40.	101(1)	Sta. 20+264, East Bridge	L.S.	-	34,001	-	-	100.00	34,001.00	
41.	101(1)	Sta. 20+264, West Bridge	L.S.	-	34,001	-	-	100.00	34,001.00	
42.	101(1)	Sta. 21+469, East Bridge	L.S.	-	82,691	-	-	100.00	82,691.00	
		Sheet No. 1		Sub-Totals			6,579.39		19,499,724.37	

VI. 7. . . . MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

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JAGORAWI
HIGHWAY PROJECT

PROJECT RECORD - ESTIMATE

A

DOLLAR
SHEET 2

Amman & Whitney
Trans - Auto Engineering

Period No. 61 Estimate No. 61 Date August 2, 1979
Period Dates June 25, 1979 thru July 25, 1979

SECTION 1

SID SCHD NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		SID SCHD NO.
						Quantity	Amount	Quantity	Amount	
42	6012(18)	Sta. 21+65, West Bridge	L.S.	-	82,691	-	-	100.00	82,691.00	42
43	6012(19)	Sta. 23+65, East Bridge	L.S.	-	34,001	-	-	100.00	34,001.00	43
44	6012(20)	Sta. 25+65, West Bridge	L.S.	-	34,001	-	-	100.00	34,001.00	44
45	6012(21)	Sta. 27+65, East Bridge	L.S.	-	35,781	-	-	100.00	35,781.00	45
46	6012(22)	Sta. 29+800, West Bridge	L.S.	-	35,781	-	-	100.00	35,781.00	46
47	6012(23)	Sta. 10+850(AC), Bridge	L.S.	-	57,696	-	-	100.00	57,696.00	47
48	6012(24)	Sta. 12+270(BC), North Bridge	L.S.	-	35,781	-	-	100.00	35,781.00	48
49	6012(25)	Sta. 12+270(BC), South Bridge	L.S.	-	35,781	-	-	100.00	35,781.00	49
50	603(1)	40 Cn. Reinforced Concrete Pipe (2)	Lin.M	5	4,150	-	-	22 76	615.70	50
51	603(2)	50 Cn. Reinforced Concrete Pipe (2)	Lin.M	6	780	-	-	131 20	767.20	51
52	603(3)	60 Cn. Reinforced Concrete Pipe (2)	Lin.M	8	20,040	5 00	40.00	1,618 58	12,545.04	52
53	603(4)	80 Cn. Reinforced Concrete Pipe (2)	Lin.M	20	71,600	29 40	582.00	2,192 44	43,678.72	53
54	603(5)	100 Cn. Reinforced Concrete Pipe (2)	Lin.M	15	17,125	-	-	371 45	9,265.25	54
55	603(6)	120 Cn. Reinforced Concrete Pipe (2)	Lin.M	25	48,300	7 50	262.50	1,117 20	39,102.00	55
56	603(7)	60 Cn. Corrugated Steel Pipe	Lin.M	36 90	19,926	-	-	50 70	1,670.55	56
57	603(8)	80 Cn. Corrugated Steel Pipe	Lin.M	58 30	2,915	-	-	-	-	57
58	604(1)	Manhole, Type 1	Each	113 20	1,387	-	-	-	-	58
59	604(2)	Manhole, Type 2	Each	116 50	659	-	-	-	-	59
60	604(3)	Inlet, Type 1	Each	91	11,284	-	-	74 75	6,102.25	60
61	604(4)	Inlet, Type 2	Each	91	4,732	-	-	1	4.73	61
62	604(5)	20 Cn. Perforated Concrete Pipe	Lin.F	0 60	960	37 80	22.66	23,593 20	14,155.10	62
63	605(1)	Galvanized Beam-Type Guardrail	Lin.M	15 24	49,530	185 50	2,842.25	4,056 75	61,824.82	63
64	607(1)	Wire Fence	Lin.M	2 55	122,550	1,639 00	4,223.52	45,639 00	117,728.62	64
65	607(2)	Gate, Single, 4.0-M	Each	76 70	1,538	-	-	-	-	65
66	607(3)	Gate, Double, 6.5-M	Each	99 50	1,194	-	-	-	-	66
67	607(4)	Concrete Curb, Type 1	Lin.M	1 15	1,794	43 20	49.58	1,497 60	1,777.20	67
68	607(5)	Concrete Delineation Strip (CCO 38)	Lin.M	3 39	8,407.20	-	-	2,970 55	10,073.15	68A
69	607(6)	Bituminous Concrete Curb	Lin.M	1 12	14,392	-	-	-	-	69
70	619(1)	Loose Riprap	Sq.M	3 80	4,284	32 13	109.24	5,166 84	17,552.26	70
71	622(1)	Reinforced Bubble Paved Waterway, Type A	Sq.M	1 40	7,280	649 92	999.89	14,626 83	20,472.56	71
72	622(2)	Reinforced Bubble Paved Waterway, Type B	Sq.M	1 14	4,824	3,656 68	4,800.15	14,857 20	19,682.65	72
73	622(3)	Bituminous Paved Waterway	Sq.M	0 85	20,230	-	-	-	-	73
74	622(4)	Right of Way Enclosure	Each	6 05	7,057	DELETED PER CCO NO. 1	-	-	-	74
75	624(1)	Furnishing and Placing Topsoil	Sq.M	0 20	6,300	-	-	-	-	75
76	624(2)	Splicing	Are	2	10,050	-	-	9,859 75	19,719.50	76
77	624(3)	Splicing	Are	-	DELETED	DURING BID NEGOTIATIONS	-	-	-	77
78	624(4)	Concrete Block Slope Protection	Sq.M	3 60	1,960	-	-	1,383 96	4,082.26	78
79	631(1)	Roadway Marking	Lin.M	0 12	14,940	-	-	103,941	12,472.82	79
80	632(1)	Road Sign, Type A	Each	24	48	-	-	-	-	80
81	632(2)	Road Sign, Type B	Each	21 20	424	-	-	-	-	81
82	632(3)	Road Sign, Type C	Each	26 30	263	-	-	-	-	82
83	632(4)	Road Sign, Type D	Each	20 30	609	-	-	-	-	83
84	632(5)	Road Sign, Type E 1	Each	93 60	468	-	-	-	-	84
Sub-Totals								13,993.02	722,513.67	

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VI. 7. . . . MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

JAGORAWI
HIGHWAY PROJECT
SECTION A

PROJECT RECORD-ESTIMATE

Period No. 61 Estimate No. 61 Date August 2, 1979
Period Dates June 26, 1979 thru July 25, 1979

DOLLAR
SHEET 3

Ammann & Whitney
Trans - Asia Engineering

DID NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		BID SCED NO.		
						Quantity	Amount	Quantity	Amount			
74	247(2)	Road Sign, Type E 2	Each	105.50	643	-	-	-	-	55		
74	247(3)	Road Sign, Type F 1	Each	100	300	-	-	-	-	56		
74	247(4)	Road Sign, Type G 1	Each	27	51	-	-	-	-	57		
74	247(5)	Road Sign, Type G 2	Each	105.50	422	-	-	-	-	58		
74	247(11)	Road Sign, Type G 4	Each	173	173	-	-	-	-	59		
74	247(12)	Road Sign, Type G 5	Each	18.50	111	-	-	-	-	60		
74	247(13)	Road Sign, Type H 1	Each	19	38	-	-	-	-	61		
74	247(14)	Road Sign, Type H 2	Each	18.50	186	-	-	-	-	62		
74	247(15)	Road Sign, Type H 3	Each	18.50	93	-	-	-	-	63		
74	247(16)	Road Sign, Type H 4	Each	29	87	-	-	-	-	64		
74	247(17)	Transmission System Complete, Div. 2	L.S.	-	DELETED	DURING BID NEGOTIATIONS		-	-	65		
74	247(18)	Traffic Signal System Complete, Div. A	L.S.	-	4,700	-	-	-	-	67		
74	247(19)	Police Signal System Complete, Div. B	L.S.	-	3,650	-	-	-	-	68		
74	247(20)	Soundings, Type A	Each	3,746	3,746	-	-	100.00	\$	3,746.00	69	
74	247(21)	Soundings, Type B	Each	3,062	18,372	-	-	100.00	\$	18,372.00	100	
74	247(22)	Soundings, Type C	Each	2,576	2,576	-	-	100.00	\$	2,576.00	101	
74	247(23)	Soundings, Type D	Each	-	DELETED	DURING BID NEGOTIATIONS		-	-	102		
74	247(24)	Contractor Warehouse	Each	1,774	1,774	5.00	\$	85.75	100.00	\$	1,228.25	103
74	247(25)	Contractor Shop	Each	4,443	4,443	2.50	\$	111.63	100.00	\$	4,331.37	104
74	247(26)	Contractor weigh House & Scale	L.S.	-	15,764	-	-	100.00	\$	15,764.00	105	
74	247(27)	Engineer Office & Laboratory	L.S.	-	2,176	-	-	100.00	\$	2,176.00	106	
74	247(28)	Engineer Vehicles	L.S.	-	119,332	-	-	100.00	\$	119,332.00	107	
74	247(29)	Settlement Plate (CCO 51)	Each	-	NONE	-	-	25	-	-	108	
74	247(30)	Steel Pipe, 0.6M long (CCO 51)	Each	-	NONE	-	-	228	-	-	109	
74	247(31)	Underdrain Junction Box (CCO 51)	Each	-	NONE	-	-	250	-	-	110	
74	247(32)	3" dia. Collector & Inlet Intersect	Cy.M	1	135	-	-	132.75	\$	185,175.00		
74	247(33)	CCO 14 Delete W/S Waterproofing	Cy.M	(-)	6,281	(-)	10,801.60	-	-	-		
74	247(34)	CCO 48 Exp. Culvert Station 23+500	L.S.	-	5,666.00	-	-	1,443.53	\$	(-) 9,055.49		
74	247(35)	CCO 43 Bridge Rail Bolt Revisions	L.S.	-	(-)	704.48	-	100.00	\$	5,666.00		
74	247(36)	CCO 45 Suppl. # 1 See raw drain system	L.S.	-	1,235.00	-	-	100.00	\$	(-) 704.48		
74	247(37)	CCO 65 Exp. Culvert Sta. 25+47.50	L.S.	-	4,491.00	4,222	\$	189.52	100.00	\$	1,235.00	
74	247(38)	CCO 72 Channel rev. Sta. 12+270 P.C. & 12+270	L.S.	-	2,232.00	22,112	\$	493.50	100.00	\$	4,491.00	
74	247(39)	CCO 80 Cont. adjustment of App. Base Course	Cy.M	0.84	(-) 108,780.00	353	01	(-) 296.53	115,282	63	(-) 96,837.41	
Sheet No. 3 Sub-Totals							586.27		260,666.56			

VI. 7. MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

SEAWAY PROJECT
SECTION A

Period No. 61 August 2, 1979
Period Dates: June 25, 1979 thru July 25, 1979

FORMAR August 2, 1979
SHEET 4 Plans - Air Engineering

ITEM NO.	ITEMS	UNITS	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		FID. CONC'D. %
					Quantity	Amount	Quantity	Amount	
CCO 67	Deletion/Credit for U.S. AID Code 935 Shipping	L.S.		(-) 132,050.54	-	-	100.00 %	(-) 132,050.54	
CCO 55	Bridge Sta. 11-932 Pier # 7	L.S.		(-) 1,832.16	-	-	100.00 %	(-) 1,832.16	
CCO 104	Adjust of compensation			-	-	-	-	-	
CCO 105	Adjust of compensation			-	-	-	-	(-) 69,045.92	
CCO 67	Suppl. #1 Deletion/Credit for U.S. AID Code 935 Shipping	L.S.		(-) 106,577.25	-	13,283.60		-	
CCO 67	Suppl. #2 Deletion/Credit for U.S. AID Code 935 Shipping			(-) 55,912.57	-	-	100.00 %	(-) 55,912.57	
CCO 122	Adjust of compensation Clavi Toll Plaza			-	-	-	-	(-) 45,793.70	
CCO 113	Adjust of compensation revised guard rail		9.612	39,050.39	186	1,755.34	4,056	38,182.13	
CCO 101	Revised roadway parking		0.152	19,120.00	-	-	103.941	14,759.62	
CCO 108	Barbed wire installation lines additional		0.228	11,924.40	1,639	373.69	45,639	10,465.69	
CCO 121	Adjust of compensation Foot Bridge Sta. 24			-	-	-	-	(-) 576.06	
CCO 67	Suppl. #3 Deletion/Credit for U.S. AID Code 935 Shipping			(-) 146,419.78	-	-	100.00 %	(-) 146,419.78	
Sub Totals						15,382.63		(-) 49,240.54	

VI. 7. MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

2-5 113

PROGRESS REPORT

DOLLAR
 August & Whitney
 Trans - 191a Engineering

Period No. 61 Estimate No. 61 Date August 2, 1979
 Period Dates: June 26, 1979 thru July 25, 1979

ITEMS	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	THIS ESTIMATE		TOTAL ESTIMATE		BID NO.
			Quantity	Amount	Quantity	Amount	
Sheet No. 4 Sub Totals				15,592.63		6,495,240.54	
Sheet No. 1 Job Totals				6,539.39		9,595,724.37	
Sheet No. 2 Job Totals				13,693.02		727,513.37	
Sheet No. 3 Job Totals				535.27		260,610.56	
ADJUSTMENTS:				26,511.31		9,992,664.25	
(A) Add for Materials Extra Work							
(B) Adjustment Compensation							
ADJUSTMENTS: WORK DONE				36,511.31		9,992,664.26	
(A) Materials on hand				-		99,653.23	
(B) Materials Cost Escalation				-		-	
(C) Labor Cost Escalation				-		-	
ADJUSTMENTS: WORK DONE, MATERIALS, COST ESCALATION				36,511.31		10,092,357.69	
(A) Work Done Retention				-		400,906.26	
(B)				-		-	
ADJUSTMENTS: RETENTION				-		480,906.26	
ADJUSTMENTS: OTHER CONTRACTS				36,511.31		9,611,451.23	

Est. 1 MATERIALS DATA: June WEATHER NEW
 1979 FOR COMPLETION 1979 WORKING DAYS: 0 C.C.O DATA: 209 OTHER ALLOWABLE DAYS: 0
 PERCENT COMPLETED: 103.89% PERCENT TIME ELAPSED: 101.44%

VI. 7. MONTHLY PAY ESTIMATE No. 61

SECTION VI APPENDIX

Best Available Document

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JAGORAWI
HIGHWAY PROJECT
SECTION B

PROJECT RECORD - ESTIMATE

DOLLAR
SHEET 1

Amman & Gentry
Trans - Ass Engineering

Period No. 61 Estimate No. 61 Date August 2, 1979
Period Dates June 25, 1979 thru July 25, 1979

NO.	REV ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		SIC SCHED NO.
						Quantity	Amount	Quantity	Amount	
		PAVEMENT			12,683,500					
		Mobilization	L.S.		2,348,725	-	-	5/3	2,348,725.00	1
		Clearing and Grubbing	Roq	115.	42,250	064	73.60	210' 11	2,422,375.00	2
		Subsidiary Excavation (2)	Cu.H	0.69	1,070,264	-	-	2,445,000.00	1,670,264.00	3
		Back Excavation	Cu.H	1.16	58,000	-	-	2,453,000.00	20,332.00	4
		Barre Excavation (2)	Cu.H	0.22	1,358,712	171,179	123,248.88	950,000'	709,600	5
		ditch Excavation	Cu.H	0.30	6,000	-	-	21,000.00	6,313.80	6
		Channel Excavation	Cu.H	0.52	8,400	-	-	20,090.00	8,437.80	7
		Excavation for Structures	Cu.H	0.70	8,260	433	303.10	106,014	74,269.80	8
		Bridge Excavation	Cu.H	4.18	64,790	-	-	11,382.00	47,576.75	9
		Asphalt Treated Base Course (2)	Ton	3.70	1,055,260	-	-	326,417.20	1,207,753.64	10
		Concrete Keel/Inlets - Zinc Treated	Cu.H	2.60	22,500	DELETED P-2 CCO NO. 53	-	-	-	11
		Hot Bituminous Concrete Pavement (2)	Ton	5.35	625,550	-	-	107,809.02	576,778.25	12
		Asphalt Cement, 60-70 Penetration (2)	Ton	50	1,105,000	-	-	23,845.93	1,192,345.50	13
		Tack Coat, Asphalt Grade MC-250	Ton	124	78,400	-	-	206.98	25,665.52	14
		Prime Coat, Asphalt Grade MC-70	Ton	120	132,000	-	-	10.52	1,215.40	15
		Seal Coat, Type 3	Sq.M	0.16	81,600	-	-	300,308.83	45,009.41	16
		Aggregate Base Course	Cu.H	4.	100,500	-	-	166,588.89	665,305.55	17
		Structural Steel Piles, Furnished (2)	Lin.F	31.	1,322,770	-	-	33,654.74	1,025,055.04	18
		Structural Steel Piles, Driven (2)	Each	50	257,000	-	-	2,711	257,000.00	19
		Structural Steel Piles, Test Driven	Each	445	7,135	-	-	17	7,135.00	20
		Load Tests	Each	1,850	3,700	-	-	2	3,700.00	21
		Structural Concrete, Class A	Cu.H	23.	16,560	-	-	74.2	17,006.20	22
		Structural Concrete, Class AA (2)	Cu.H	34	358,870	-	-	12,737.55	433,076.70	23
		Structural Concrete, Class C	Cu.H	26.	2,600	-	-	14	2,600.00	24
		Reinforcing Steel (2)	Kg.	0.25	259,741	-	-	1,471,761	382,700.00	25
		STA. 31+500, East Bridge	L.S.	-	37,435	-	-	100.00	37,435.00	26
		STA. 31+550, East Bridge	L.S.	-	37,435	-	-	100.00	37,435.00	27
		STA. 35+415, East Bridge	L.S.	-	25,781	-	-	100.00	25,781.00	28
		STA. 35+415, East Bridge	L.S.	-	25,781	-	-	100.00	25,781.00	29
		STA. 38+792, East Bridge	L.S.	-	79,020	-	-	100.00	79,020.00	30
		STA. 38+792, East Bridge	L.S.	-	79,020	-	-	100.00	79,020.00	31
		STA. 40+405, East Bridge	L.S.	-	25,688	-	-	100.00	25,688.00	32
		STA. 40+455, East Bridge	L.S.	-	25,688	-	-	100.00	25,688.00	33
		STA. 41+502, East Bridge	L.S.	-	62,930	-	-	100.00	62,930.00	34
		STA. 41+502, East Bridge	L.S.	-	62,930	-	-	100.00	62,930.00	35
		STA. 43+260, East Bridge	L.S.	-	25,782	-	-	100.00	25,782.00	36
		STA. 43+260, East Bridge	L.S.	-	25,782	-	-	100.00	25,782.00	37
		STA. 44+755, Bridge	L.S.	-	45,044	-	-	100.00	45,044.00	38
		STA. 44+755, Bridge	L.S.	-	45,044	-	-	100.00	45,044.00	39
		STA. 46+645, Bridge	L.S.	-	45,044	-	-	100.00	45,044.00	40
		STA. 47+390, Bridge	L.S.	-	45,044	-	-	100.00	45,044.00	41
		STA. 48+360, East Bridge	L.S.	-	25,782	-	-	100.00	25,782.00	42
		STA. 48+360, East Bridge	L.S.	-	25,782	-	-	100.00	25,782.00	43
		Sub-Totals					123,625.88		11,494,286.75	

VI. 7. MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

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JAGORAWI
HIGHWAY PROJECT
SECTION 2

PROJECT RECORD-ESTIMATE

Period No. 61 Project No. 61 Date August 2, 1979
Period Dates June 26, 1979 thru July 25, 1979

DOLLAR
SHEET 2

Ammann & Whitney
Trans - Asia Engineering

BID NO.	P&I ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SC40 NO.
						Quantity	Amount	Quantity	Amount	
102	10213	31A. 49+135, East Bridge	L.S.		25,782	DELETED	PER CDD NO. 26			
102	10214	31A. 49+135, West Bridge	L.S.		25,782	DELETED	PER CDD NO. 26			
102	10215	31A. 51+760, North Bridge	L.S.		73,334					
102	10216	31A. 51+760, South Bridge	L.S.		73,334			62.39 %	45,753.00	
102	10217	31A. 52+720, Bridge (Bry. per CDD 26)	L.S.		85,000			35.88 %	27,055.50	
102	10218	31A. 54+826, East Bridge	L.S.		18,000	DELETED	PER CDD NO. 26	100.00 %	85,600.00	
102	10219	31A. 54+826, West Bridge	L.S.		36,000	DELETED	PER CDD NO. 26			
102	10220	31A. 56+575, East Bridge	L.S.		37,425	DELETED	PER CDD NO. 26			
102	10221	31A. 56+575, West Bridge	L.S.		37,425	DELETED	PER CDD NO. 26			
102	10222	31A. 57+500, bridge	L.S.		77,708					
102	10223	400a. Reinforced Concrete Pipe (2)	Lin.M	5.	4,100				77,703.00	51
102	10224	500a. Reinforced Concrete Pipe (2)	Lin.M	5.40	4,952			273.85	1,359.25	52
102	10225	600a. Reinforced Concrete Pipe (2)	Lin.M	8.	29,050			720.25	4,609.75	53
102	10226	800a. Reinforced Concrete Pipe (2)	Lin.M	22.	72,320			2,825.03	22,600.24	54
102	10227	1000a. Reinforced Concrete Pipe (2)	Lin.M	25.	35,375			723.67	14,373.40	55
102	10228	1200a. Reinforced Concrete Pipe (2)	Lin.M	15.	104,475			1,612.44	23,631.00	56
102	10229	600a. Corrugated Steel Pipe	Lin.M	37.	25,150			2,312.53	73,652.50	57
102	10230	800a. Corrugated Steel Pipe	Lin.M	58.	2,320			262.19	9,201.03	58
102	10231	Manhole, Type 1	Each	157.	2,940					59
102	10232	Manhole, Type 2	Each	134.	536					60
102	10233	Inlet, Type 1	Each	169.	25,026					61
102	10234	Inlet, Type 2	Each	87.	1,915			313	19,097.00	62
102	10235	200a. Perforated Concrete Pipe	Lin.M	0.50	180			3	251.00	63
102	10236	Galvanized Beam-Type Guardrail	Lin.M	15.	50,400			53,470.90	32,684.25	64
102	10237	wire fence	Lin.M	2.70	163,350			5,710.00	85,650.00	65
102	10238	Gate, Single, 4.0 M	Each	77.	1,232			59,099.12	159,567.62	66
102	10239	Gate, Double, 5.5 M	Each	100.	1,800			1	77,608.67	67
102	10240	Concrete curb, Type 1	Lin.M	1.80	3,690			4	100,000.00	68
102	10241	Concrete curb and gutter, Type 1	Lin.M	4.50	29,775	DELETED	PER CDD NO. 39	4,331.04	7,235.00	69
102	10242	Bituminous Concrete Curb	Lin.M	1.35	20,169					70
102	10243	Loose Riprap	Ton	3.50	700					71
102	10244	Mortared rubble paved waterway, Type A	Sq.M	1.50	37,500			2,027.15	7,092.04	72
102	10245	Mortared rubble paved waterway, Type B	Sq.M	1.33	3,302			8,431.65	12,647.27	73
102	10246	Bituminous paved waterway	Sq.M	2.	7,620			9,055.65	11,771.52	74
102	10247	Block of Key Moments	Each	4.00	1,600	DELETED	PER CDD NO. 2			75
102	10248	Fabricating and placing Topsoil	Sq.M	0.20	15,520					76
102	10249	Springing	Sr	2.	14,470					77
102	10250	Soilfill	Sr		DELETED	DURING BID NEGOTIATIONS		9,533.17	19,055.34	78
102	10251	Concrete Block Slope Protection	Sq.M	3.81	14,250			2,320.77	0.00	79
102	10252	Rocky Mending	Lin.M	3.10	16,570			129,653.00	12,000.00	80
102	10253	Wood Sign, Type A	Each	10.50	156					81
102	10254	Wood Sign, Type B	Each	5.	150					82
102	10255	Wood Sign, Type C	Each	10.20	371					83
		Sheet No. 2 Sub-Totals							786,648.50	84

VI. 7. . . . MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

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Best Available Document

JAGORAWI HIGHWAY PROJECT SECTION B

PROJECT RECORD-ESTIMATE

Period No. 61 Estimate No. 61 Date August 2, 1979
 Period Dates June 26, 1979 thru July 25, 1979

DOLLAR
SHEET 3

Amann & Whitney
Trans - Asia Engineering

BID SCH NO	PAY ITEM NO	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) (6)		(7) (8)		BID SCH NO
						THIS ESTIMATE		TOTAL ESTIMATE		
						Quantity	Amount	Quantity	Amount	
		Road sign, type J	Each	10.00	324	-	-	-	-	65
		Road sign, type K	Each	22	110	-	-	-	-	66
		Road sign, type L	Each	21.00	214	-	-	-	-	67
		Road sign, type M	Each	22	182	-	-	-	-	68
		Road sign, type N	Each	22	215	-	-	-	-	69
		Road sign, type O	Each	22	66	-	-	-	-	70
		Road sign, type P	Each	21.00	215	-	-	-	-	71
		Road sign, type Q	Each	21	125	-	-	-	-	72
		Road sign, type R	Each	21	125	-	-	-	-	73
		Road sign, type S	Each	21.00	125	-	-	-	-	74
		Road sign, type T	Each	22	44	-	-	-	-	75
		Road sign, type U	Each	22	88	-	-	-	-	76
		Road sign, type V	Each	21	116	-	-	-	-	77
		Information System Complete, Type A	L.S.	-	-	-	-	-	-	78
		Information System Complete, Type B	L.S.	-	-	-	-	-	-	79
		Information System Complete, Type C	L.S.	-	-	-	-	-	-	80
		Roasting, type A	Each	1,236	1,236	-	-	95.00 %	2,253.20	100
		Roasting, type B	Each	1,052	1,052	-	-	95.00 %	17,453.43	101
		Roasting, type C	Each	2,576	2,576	-	-	95.00 %	2,447.20	102
		Roasting, type D	Each	-	-	-	-	-	-	103
		Contractor warehouse	Each	1,774	1,774	-	-	100.00 %	1,774.00	104
		Contractor Shop	Each	4,443	4,443	-	-	100.00 %	4,443.00	105
		Contractor weigh House & Scale	L.S.	-	15,255	-	-	100.00 %	15,255.00	106
		Engineer's Office & Laboratory	L.S.	-	2,176	-	-	100.00 %	2,176.00	107
		Engineer's Vehicles	L.S.	-	115,375	-	-	100.00 %	115,375.00	108
		Settlement Plate (COO 2)	Each	-	120	-	-	-	-	109
		Ring Pipe, 60" long (COO 71)	Each	-	120	-	-	-	-	110
		Subdrain Junction Box (COO 7)	Each	-	120	-	-	-	-	111
		Sta. 55+104 Bridge, (COO 26)	L.S.	-	45,000	-	-	100.00 %	45,000.00	112
		Sta. 55+535 Bridge, (COO 26)	L.S.	-	57,500	-	-	100.00 %	57,500.00	113
		Concrete Delimitation Strip	Linear	2,276	17,600.80	-	-	-	-	114
		Extra work:								
		COO 15 Excavate PCB water Proofing	Sq. Ft.	(-) 6,28	(-) 10,173.60	-	-	1.57 %	(-) 10,173.60	115
		COO 16 Exc. Culvert at Sta. 59+27	Lineal	-	29,235.00	-	-	100.00 %	29,235.00	116
		COO 24 Install #1 Overcast Drain System	Lineal	-	1,710.00	-	-	100.00 %	1,710.00	117
		COO 27 Modified Type I Inlets	Each	Varies	48.00	-	-	100.00 %	48.00	118
		COO 46 Bridge Rail Bolt Revisions	Each	-	2,122.00	-	-	100.00 %	2,122.00	119
		COO 48 Waterways Sta. 59+110 & 57+C	Sq. Ft. and L.S.	-	1,210.00	-	-	59.50 %	1,210.00	120
		Sheet No. 1 Sub-Totals							285,046.93	

VI. 7. MONTHLY PAY ESTIMATE NO. 01

SECTION VI APPENDIX

PROJECT

PROJECT ACCOUNT ESTIMATE

DOLLAR SHEET 4 August 2, 1979
 Amend 2 Initial
 Trans - Aids Engineering

Period No. 61 Estimate No. 61 August 2, 1979
 Period Dates: June 26, 1979 thru July 25, 1979

ITEMS	UNITS	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	THIS ESTIMATE		TOTAL ESTIMATE		NET COST
				Quantity	Amount	Quantity	Amount	
000 65 Asphalt Current Cost Reduction	L.S		(-) 11,250.00	-	-	100.00	(-) 11,250.00	
000 70 Bridge Guard Price Reduction	L.S		(-) 1,250.00	-	-	100.00	(-) 1,250.00	
000 50 Revised Cost Adjustment Agg. Base	L.S	(-) 0.42	(-) 71,570.00	-	-	100.00	(-) 71,570.00	
000 72 Contract/Credit for US AID Code	L.S		(-) 250,000.00	-	-	100.00	(-) 250,000.00	
000 73 Contract/Credit for US AID Code	L.S		(-) 225,000.00	-	-	100.00	(-) 225,000.00	
000 74 Contract/Credit for US AID Code	L.S		(-) 147,000.00	-	-	100.00	(-) 147,000.00	
000 82 Contract of Commission Ex. 30443	L.S		(-) 1,725.00	-	-	100.00	(-) 1,725.00	
000 83 Contract of Commission Ex. 30443	L.S		(-) 160,000.00	-	-	100.00	(-) 160,000.00	
000 75 Contract of Commission Ex. 30443	L.S		(-) 4,500.00	-	-	100.00	(-) 4,500.00	
000 102 Contract of Commission Ex. 30443	L.S		(-) 415.00	-	-	100.00	(-) 415.00	
000 107 Contract of Commission Ex. 30443	L.S		(-) 10,450.00	-	-	100.00	(-) 10,450.00	
000 77 Contract of Commission Ex. 30443	L.S		(-) 15,100.00	-	-	100.00	(-) 15,100.00	
000 87 Contract of Commission Ex. 30443	L.S		(-) 243,724.74	-	-	100.00	(-) 243,724.74	
000 111 Contract of Commission Ex. 30443	L.S		808.22	-	-	100.00	808.22	
000 111 Contract of Commission Ex. 30443	L.S	9.63	(-) 52,418.57	-	-	5,710.00	(-) 52,418.57	
000 102 Revised Profile Parking	L.M	0.15	22,100.00	-	-	129,000.00	19,900.00	

(-750,102.35)

VI. . . . MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

Best Available Document

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JAGORAWI
HIGHWAY PROJECT
SECTION A

PROJECT RECORD-ESTIMATE A

RUPIAH
SHEET 1

Period No. 61 Estimate No. 61 Date August 2, 1979
Period Dates June 26, 1977 thru July 25, 1979

Form - A-10-1

BID SCHD NO.	ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHD NO.
						Quantity	Amount	Quantity	Amount	
		BASIC TENDER			1,916,852,215					
1	00101	Mobilization	L.S.	-	41,452,650	-	-	1/3	41,452,650	1
2	00102	Cleaning and Grubbing	Cu.M	30,917.5	7,731,210	2.55	29,149	179.05	5,532,015	2
3	00103	Unclassified Excavation	(2) Cu.M	12.5	81,662,500	-	-	1,259.00	15,737,125	3
4	00104	Back Excavation	Cu.M	166	8,300,000	-	-	43,662.03	8,077,837	4
5	00105	Border Excavation	(2) Cu.M	121.5	231,918,400	-	-	725,550.00	83,030,955	5
6	00106	Channel Excavation	Cu.M	59.1	1,185,210	1,353.03	60,000	27,522.13	1,272,732	6
7	00107	Excavation for Structures	Cu.M	66.4	730,000	-	-	8,152.50	8,152,500	7
8	00108	Bridge Excavation	Cu.M	71.2	1,510,000	2,371.00	177,214	51,632.00	3,038,814	8
9	00109	Asphalt Drivest Edge Course	(2) Cu.M	1,162	21,550,000	-	-	17,152.75	19,000,000	9
10	00110	Concrete Modification-like Treated	Cu.M	1,504	271,101,000	175.73	219,541	221,242.76	320,000,000	10
11	00111	Asphalt Concrete Pavement	(2) Cu.M	1,560.8	45,321,000	-	-	209.07	1,000,000	11
12	00112	Asphalt Concrete, 50-70 Penetration	(2) Cu.M	1,560.8	114,521,810	0.56	83	27,000.00	113,000,000	12
13	00113	Gravel Coat, Asphalt Grade 60-70	Ton	10,375	155,625,000	3.20	33,200	17,252.50	173,000,000	13
14	00114	Gravel Coat, Asphalt Grade 60-70	Ton	10,375	8,291,700	-	-	163	2,500,000	14
15	00115	Gravel Coat, Type 1	Ton	5,352.5	12,130,450	-	-	4.03	5,000,000	15
16	00116	Aggregate Base Course	Cu.M	24.9	5,265,150	-	-	205,433.73	5,100,000	16
17	00117	Structural Steel Piles, Furnished	(2) Lin.	2,282.5	41,998,000	353.01	605,745	115,202.63	289,132,600	17
18	00118	Structural Steel Piles, Driven	(2) Each	954.5	18,820,445	-	-	27,632.66	28,375,000	18
19	00119	Structural Steel Piles, Test Pile	Each	11,379.5	13,142,220	-	-	2,152	13,142,220	19
20	00120	Long Tests	Each	60,630	300,000	-	-	8	500,000	20
21	00121	Structural Concrete, Class A	Cu.M	161,100	187,200	-	-	-	-	21
22	00122	Structural Concrete, Class AA	(2) Cu.M	13,280	9,561,600	-	-	954.48	12,075,000	22
23	00123	Structural Concrete, Class C	Cu.M	10,375	165,585,000	43.91	455,566	15,218.25	165,000,000	23
24	00124	Reinforcing Steel	(2) Kg.	6,650	2,656,000	-	-	232.36	1,000,000	24
25	00125	Steel Decking	(2) Sq.M	11.2	57,924,000	4,024	133,567	1,002,187	59,032,000	25
26	00126	Steel Decking	(2) Sq.M	-	-	-	-	-	-	26
27	00127	Steel Decking	(2) Sq.M	-	-	-	-	-	-	27
28	00128	Steel Decking	(2) Sq.M	-	-	-	-	-	-	28
29	00129	Steel Decking	(2) Sq.M	-	-	-	-	-	-	29
30	00130	Steel Decking	(2) Sq.M	-	-	-	-	-	-	30
31	00131	Steel Decking	(2) Sq.M	-	-	-	-	-	-	31
32	00132	Steel Decking	(2) Sq.M	-	-	-	-	-	-	32
33	00133	Steel Decking	(2) Sq.M	-	-	-	-	-	-	33
34	00134	Steel Decking	(2) Sq.M	-	-	-	-	-	-	34
35	00135	Steel Decking	(2) Sq.M	-	-	-	-	-	-	35
36	00136	Steel Decking	(2) Sq.M	-	-	-	-	-	-	36
37	00137	Steel Decking	(2) Sq.M	-	-	-	-	-	-	37
38	00138	Steel Decking	(2) Sq.M	-	-	-	-	-	-	38
39	00139	Steel Decking	(2) Sq.M	-	-	-	-	-	-	39
40	00140	Steel Decking	(2) Sq.M	-	-	-	-	-	-	40
41	00141	Steel Decking	(2) Sq.M	-	-	-	-	-	-	41
		Sub-Totals					2,007,354		1,050,703,537	

VI. 7. . . . MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

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JAGORAWI
HIGHWAY PROJECT
SECTION A

PROJECT RECORD-ESTIMATE **A**

RUPIAH
SHEET 2

Amman & Whitney
Trans - Ass Engineering

Period No 61, Starting 61, Date August 2, 1979
Period No 61, Starting 61, Date August 2, 1979

BID NO	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHED NO.
					Quantity	Amount	Quantity	Amount	
42. 60101.1	Sta. 21+59, West Bridge	L.S.	-	14,785,855	-	-	100.00	14,785,855	42
43. 60101.2	Sta. 25+455, East Bridge	L.S.	-	6,551,205	-	-	100.00	6,551,205	43
44. 60101.3	Sta. 25+455, West Bridge	L.S.	-	6,551,205	-	-	100.00	6,551,205	44
45. 60101.21	Sta. 29+800, East Bridge	L.S.	-	5,241,450	-	-	100.00	5,241,450	45
46. 60101.22	Sta. 29+800, West Bridge	L.S.	-	5,241,450	-	-	100.00	5,241,450	46
47. 60101.23	Sta. 10+800(BC), Bridge	L.S.	-	11,985,445	-	-	100.00	11,985,445	47
48. 60101.24	Sta. 12+270(BC), North Bridge	L.S.	-	5,241,450	-	-	100.00	5,241,450	48
49. 60101.25	Sta. 12+270(BC), South Bridge	L.S.	-	5,241,450	-	-	100.00	5,241,450	49
50. 60101.26	40 Cn. Reinforced Concrete Pipe (2)	Lin.M	5,355	4,222,230	-	-	100.00	4,222,230	50
51. 60101.27	50 Cn. Reinforced Concrete Pipe (2)	Lin.M	5,355	771,350	-	-	100.00	771,350	51
52. 60101.28	60 Cn. Reinforced Concrete Pipe (2)	Lin.M	6,522	17,235,232	5.00	32,500	1,750	17,267,732	52
53. 60101.29	80 Cn. Reinforced Concrete Pipe (2)	Lin.M	7,322.5	27,727,530	29.40	230,100	2,162	27,957,630	53
54. 60101.30	100 Cn. Reinforced Concrete Pipe (2)	Lin.M	9,560	6,822,500	-	-	271	7,093,500	54
55. 60101.31	120 Cn. Reinforced Concrete Pipe (2)	Lin.M	12,201	15,817,120	7.50	91,900	1,117	15,909,020	55
56. 60101.32	60 Cn. Corrugated Steel Pipe	Lin.M	4,359	2,375,150	-	-	2	2,377,150	56
57. 60101.33	60 Cn. Corrugated Steel Pipe	Lin.M	6,102.5	305,025	-	-	2	307,025	57
58. 60101.34	Manhole, Type 1	Each	114,872	1,148,720	-	-	-	1,148,720	58
59. 60101.35	Manhole, Type 2	Each	194,427.5	1,164,565	-	-	-	1,164,565	59
60. 60101.36	Inlet, Type 1	Each	66,400	8,233,600	-	-	24.75	8,233,600	60
61. 60101.37	Inlet, Type 2	Each	63,495	3,121,750	-	-	1	3,121,750	61
62. 60101.38	20 Cn. Perforated Concrete Pipe	Lin.M	5,172.2	8,254,720	37.80	103,770	23,553	8,358,490	62
63. 60101.39	Galvanized Post-Type Guardrail	Lin.M	4,232	13,752,250	155.50	2,053,455	4,655	17,172,250	63
64. 60101.40	Wire fence	Lin.M	1,115.4	54,125,500	1,659.00	1,677,211	45,629	55,802,711	64
65. 60101.41	Gate, single, 4.0.M	Each	14,420.25	293,405	-	-	-	293,405	65
66. 60101.42	Gate, double, 6.5.M	Each	25,518.75	305,025	-	-	-	305,025	66
67. 60101.43	Concrete curb, Type 1	Lin.M	1,537.75	2,492,430	43.20	62,023	1,477	2,554,453	67
68. 60101.44	Concrete Delimitation Strip (COO 38)	Lin.M	1,200	2,550,000	-	-	2,200	2,550,000	68
69. 60101.45	Bituminous Concrete Curb	Lin.M	957.7	12,491,935	-	-	-	12,491,935	69
70. 60101.46	Loose Riprap	Ton	2,525	3,659,322	32.13	81,218	5,160	3,740,540	70
71. 60101.47	Portland Rubble Faced Water T. Type 1	Sq.M	1,834.3	9,538,350	619.02	1,170,118	14,630	10,708,468	71
72. 60101.48	Portland Rubble Faced Water T. Type 2	Sq.M	1,152	4,123,220	3,665.5	4,077,733	12,000	8,200,953	72
73. 60101.49	Bituminous Lava Waterway	Sq.M	115.2	2,755,550	-	-	-	2,755,550	73
74. 60101.50	Plant or any ornaments	Each	6,200.5	1,770,000	DELETED	FI	COO NO. 1	1,770,000	74
75. 60101.51	Fertilizer and Flaming Topsoil	Sq.M	22.05	915,025	-	-	-	915,025	75
76. 60101.52	Grass seed	Sq.M	2,456	13,399,520	-	-	9,527	13,409,047	76
77. 60101.53	Concrete Block Slope Protection	Sq.M	2,573	2,210,300	-	-	1,750	2,210,300	77
78. 60101.54	Survey Marking	Line	8.3	1,033,350	-	-	1,033	1,033,350	78
79. 60101.55	Road Sign, Type A	Each	9,545	19,090	-	-	-	19,090	79
80. 60101.56	Road Sign, Type B	Each	4,191.5	81,810	-	-	-	81,810	80
81. 60101.57	Road Sign, Type C	Each	7,613.5	70,135	-	-	-	70,135	81
82. 60101.58	Road Sign, Type D	Each	6,809	206,670	-	-	-	206,670	82
83. 60101.59	Road Sign, Type E 1	Each	18,177	90,835	-	-	-	90,835	83
Sub-Totals						6,804,263		6,804,263	

VI. 7. . . . MONTHLY PAY ESTIMATE NO. 01

SECTION VI APPENDIX

O JAGORAWI
HIGHWAY PROJECT
SECTION A

PROJECT RECORD-ESTIMATE

Period No 61 Estimate No. 61 Date August 2, 1979
Period Dates June 25, 1979 thru July 25, 1979

RUPIAH

Ammann & Whitney
Trans - Ass Engineering

SHEET 4

PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		CID SCHEM NO.
					Quantity	Amount	Quantity	Amount	
000 66	Colvert Sta 25+647.50			2,533,000	4.22	107,145	100.00	2,533,000	
000 72	Channel Excavations Sta 12+270 R.C. & 18+000	L.S		1,773,000	22.11	392,010	100.00	1,773,000	
000 88	Cost adjustment of apr base course	Cu, M (-)	452	25,225,050	332	(-) 169,521	115,235	(-) 53,333,300	
000 87	Deduction/Credit for U.S AID Code 935 shipping	L.S		54,732,674	-	-	100.00	54,732,674	
000 89	Inst's building extension & new parking lot.	L.S		4,772,154	5.00	239,600	100.00	4,772,154	
000 92	Centerline survey monument	Each	12,429	105,000	-	-	27	3,331,800	
000 95	Bridge Sta 11+032 pier 7	L.S		400,114	-	-	100.00	400,114	
000 101	Sta 11+025 R.C. & C.D. Extension	L.S		2,535,000	-	-	100.00	2,535,000	
000 103	Utility Duct Sta 10+036.50 RC			-	-	-	-	13,500,075	
000 104	Adjust of compensation			-	-	(-) 15,500,392	-	-	
000 97	Suppl. 1 Deduction/Credit for US AID Code 935 shipping	L.S		44,239,279	-	-	100.00	44,239,279	
000 74	Sta culvert Sta. 0+025 R.C. & S.F. 15-153			2,517,928	-	-	100.00	2,517,928	
000 87	Suppl. 2 Deduction/Credit for US AID Code 935 shipping			23,203,717	-	-	100.00	23,203,717	
000 122	Adjust of compensation Canal Toll Pl			6,802,123	-	-	100.00	6,802,123	
000 112	Adjust of compensation Canal			-	-	-	-	17,816,781	
000 112	Adjust of compensation Canal			40,633,132	185	92,510	4,053	2,000,856	
000 112	Adjust of compensation Canal			-	-	-	-	15,773,623	
000 112	Adjust of compensation Canal			-	-	-	-	52,070	
000 112	Adjust of compensation Canal			-	-	-	-	1,639,000	
000 112	Adjust of compensation Canal			-	-	-	-	49,522,000	
000 112	Adjust of compensation Canal			-	-	-	-	73,000,000	
000 112	Adjust of compensation Canal			1,179,320	24.00	3,551,444	95.00	10,600,000	
000 112	Adjust of compensation Canal			92,542,503	-	-	100.00	92,542,503	
000 104	Adjust of compensation			41,524,255	-	(-) 92,005	-	41,524,255	
	Sub Totals					2,414,222		390,735,940	

Best Available Document

VI. 7. MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

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PROJECT
SECTION A

PROJECT RECORD - ESTIMATE

RUPIAH

ANDREAS & WITNEY

SHEET 5

TRANS - ASIA ENGINEERING

Period No. 61 Estimate No. 61 Date August 2, 1979

Period Dates June 26, 1979 thru July 25, 1979

(5) (6) (7) (8)

BID NO.	PAY ITEM NO.	ITEMS	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHED NO.
					Quantity	Amount	Quantity	Amount	
		Sheet No. 5 Sub Totals							
		Sheet No. 1 Sub Totals							
		Sheet No. 2 Sub Totals			2,027,354		2,655,703,537		
		Sheet No. 3 Sub Totals			8,854,658		400,314,593		
		Sheet No. 4 Sub Totals			1,016,210		375,539,424		
		SUB-TOTALS ; CONTRACT ITEMS			2,414,522		392,285,559		
		(A) Time and Materials Extra Work			14,312,754		2,852,713,523		
		(B) Adjustment Compensation							
		SUB-TOTALS ; WORK DONE			14,312,754		2,852,713,523		
		(C) Materials on Hand			-		2,756,323		
		(D) Materials Cost Escalation			-		277,153,049		
		(E) Labor Cost Escalation			2,136,656		35,592,868		
		SUB-TOTALS ; WORK DONE, MATERIALS, COST ESCAL.			16,449,410		3,165,181,133		
		(F) Deduct 10% Retention			-		69,315,912		
		(G) Deduct 20% Advance Payment			-		101,653,221		
		(H) Release by Bank Guarantee No. 20/135/EG (Rp 91,661,649 - Rp 28,713,110)			-		(-752,943,559)		
		SUB-TOTALS ; RETENTIONS			-		154,052,489		
		TOTAL AMOUNT DUE CONTRACTOR			16,449,410		2,974,128,639		

VI. 7. MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

Best Available Document

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PERCENT COMPLETED 118.96% PERCENT TIME ELAPSED 101.44%

Best Available Document

JAGORAWI
HIGHWAY PROJECT
SECTION B

PROJECT RECORD - ESTIMATE B

Period No. 61 Estimate No. 61 Date August 2, 1979
Period Dates June 26, 1979 thru July 29, 1979

RUPIAH
SHEET 1

Armann & Whitney
Trans - Aus Engineering

BID NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCH. NO.
						Quantity	Amount	Quantity	Amount	
		BASIC TENDER			2,388,226,645					
1.	007(1)	Mobilization	L.S.	-	165,102,829	-	-	3/3	124,102,829	1
2.	010(1)	Clearing and Grubbing	Sq.M	26,975	9,441,250	0	64	17,264	210	11
3.	011(1)	Unclassified Excavation (2)	Cu.M	124	194,917,200	-	-	2,446,898	304,859,098	2
4.	012(1)	Bank Excavation	Cu.M	124	6,225,000	-	-	17,533	2,182,543	3
5.	013(1)	Barren Excavation (2)	Cu.M	124	234,943,950	171,179	21,311,786	980,000	122,010,000	4
6.	014(1)	Ditch Excavation	Cu.M	49	925,000	-	-	21,046	1,046,046	5
7.	015(1)	Channel Excavation	Cu.M	62	1,245,000	-	-	20,050	1,265,050	6
8.	016(1)	Excavation For Structures	Cu.M	107	1,273,220	433	45,721	106,014	11,439,911	7
9.	017(1)	Bridge Excavation	Cu.M	381	5,912,900	-	-	11,382	4,345,548	8
10.	018(1)	Asphalt Treated Base Course (2)	Ton	1,494	426,088,000	-	-	326,417	487,657,257	9
11.	019(1)	Hot Bituminous Concrete Paved	Cu.M	321	87,372,500	DELETED	PER CCO NO. 52	-	-	10
12.	021(1)	Hot Bituminous Concrete Pavement (2)	Ton	1,560	170,913,600	-	-	107,809	157,457,416	11
13.	022(1)	Asphalt Cement, 60-70 Penetration (2)	Ton	10,375	229,287,500	-	-	23,846	247,411,899	12
14.	027(1)	Task Coat, Asphalt Grade MC-250	Ton	18,326	11,055,600	-	-	205	3,813,813	13
15.	028(1)	Prime Coat, Asphalt Grade MC-70	Ton	16,392	18,031,700	-	-	10	109,171	14
16.	029(1)	Seal Coat, Type 3	Sq.Yd	24	6,474,000	-	-	300,363	7,477,670	15
17.	030(1)	Asphalt Base Course	Cu.M	2,272	57,250,750	-	-	166,538	320,239,141	16
18.	030A(1)	Structural Steel Piles, Furnished (2)	Lbs.	954	40,728,515	-	-	33,034	31,530,894	17
19.	030A(2)	Structural Steel Piles, Driven (2)	Pcs	11,329	31,722,600	-	-	2,711	30,714,273	18
20.	030B(1)	Structural Steel Piles, Test Drives	Pcs	55,025	836,400	-	-	17	552,422	19
21.	030C(1)	Lead Tests	Tests	148,985	297,970	-	-	2	297,970	20
22.	031(1)	Structural Concrete, Class A	Cu.M	12,650	8,654,000	-	-	742	9,242,105	21
23.	031(2)	Structural Concrete, Class AA (2)	Cu.M	7,573	78,115,850	-	-	12,727	55,150,229	22
24.	031(3)	Structural Concrete, Class C	Cu.M	5,503	508,300	-	-	14	65,037	23
25.	032(1)	Reinforcing Steel (2)	Sq.	79	33,320,292	-	-	1,471,761	42,754,657	24
26.	032(2)	STA. 31+00, East Bridge	L.S.	-	7,550,140	-	-	100.00	7,550,140	25
27.	032(3)	STA. 31+50, East Bridge	L.S.	-	7,550,140	-	-	100.00	7,550,140	26
28.	032(4)	STA. 35+45, East Bridge	L.S.	-	4,712,155	-	-	100.00	4,712,155	27
29.	032(5)	STA. 35+45, East Bridge	L.S.	-	4,712,155	-	-	100.00	4,712,155	28
30.	032(6)	STA. 35+82, East Bridge	L.S.	-	12,535,720	-	-	100.00	12,535,720	29
31.	032(7)	STA. 35+82, East Bridge	L.S.	-	12,535,720	-	-	100.00	12,535,720	30
32.	032(8)	STA. 40+55, East Bridge	L.S.	-	4,900,830	-	-	100.00	4,900,830	31
33.	032(9)	STA. 40+55, East Bridge	L.S.	-	4,900,830	-	-	100.00	4,900,830	32
34.	032(10)	STA. 41+50, East Bridge	L.S.	-	10,548,835	-	-	100.00	10,548,835	33
35.	032(11)	STA. 41+50, East Bridge	L.S.	-	10,548,835	-	-	100.00	10,548,835	34
36.	032(12)	STA. 42+60, East Bridge	L.S.	-	4,712,740	-	-	100.00	4,712,740	35
37.	032(13)	STA. 42+60, East Bridge	L.S.	-	4,712,740	-	-	100.00	4,712,740	36
38.	032(14)	STA. 42+60, Bridge	L.S.	-	8,714,585	-	-	100.00	8,714,585	37
39.	032(15)	STA. 42+60, Bridge	L.S.	-	8,714,585	-	-	100.00	8,714,585	38
40.	032(16)	STA. 47+50, Bridge	L.S.	-	8,714,585	-	-	100.00	8,714,585	39
41.	032(17)	STA. 48+80, East Bridge	L.S.	-	4,712,740	-	-	100.00	4,712,740	40
42.	032(18)	STA. 48+80, East Bridge	L.S.	-	4,712,740	-	-	100.00	4,712,740	41
		Sheet No. 1 Sub-Total						21,375,771	2,238,518,711	

VI. 7. MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

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JAGORAWI
HIGHWAY PROJECT
SECTION 8

PROJECT RECORD - ESTIMATE B

Period No. 61 Estimate No. 61 Date: August 2, 1979
Period Dates: June 26, 1979 thru July 25, 1979

RUPIAH
SHEET 2

Amman & Whitney
Trans. And Engineering

VI. 7. . . . MONTHLY PAY ESTIMATE No. 61

SECTION VI APPENDIX

BID SCHD NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SCHD NO.
						Quantity	Amount	Quantity	Amount	
		STA. 42+133, East Bridge	L.S.	-	4,712,760	DELETED	PER CCO NO. 25	-	-	42
		STA. 47+125, East Bridge	L.S.	-	4,712,760	DELETED	PER CCO NO. 25	-	-	43
		STA. 51+760, North Bridge	L.S.	-	11,682,135	-	-	62.39%	8,535,264	44
		STA. 51+760, South Bridge	L.S.	-	11,682,135	-	-	36.82%	5,045,571	45
		STA. 53+730, Bridge (Per. Per CCO 26)	L.S.	-	16,437,000	-	-	100.00%	16,437,000	46
		STA. 54+206, East Bridge	L.S.	-	5,551,135	DELETED	PER CCO NO. 26	-	-	47
		STA. 54+206, West Bridge	L.S.	-	5,551,135	DELETED	PER CCO NO. 26	-	-	48
		STA. 56+330, East Bridge	L.S.	-	7,359,553	DELETED	PER CCO NO. 26	-	-	49
		STA. 56+330, West Bridge	L.S.	-	7,359,553	DELETED	PER CCO NO. 26	-	-	50
		STA. 57+580, Bridge	L.S.	-	13,652,065	-	-	100.00%	13,652,065	51
		400mm Reinforced Concrete Pipe (2)	Lin.M	4,920	4,083,600	-	-	273	89	52
		500mm Reinforced Concrete Pipe (2)	Lin.M	5,395	4,208,100	-	-	720	23	53
		600mm Reinforced Concrete Pipe (2)	Lin.M	6,205	25,408,470	-	-	2,825	05	54
		800mm Reinforced Concrete Pipe (2)	Lin.M	7,760	28,015,405	-	-	718	67	55
		1000mm Reinforced Concrete Pipe (2)	Lin.M	9,960	10,707,000	-	-	1,042	44	56
		1200mm Reinforced Concrete Pipe (2)	Lin.M	10,375	30,969,375	-	-	2,112	88	57
		600mm Corrugated Steel Pipe	Lin.M	3,735	2,539,800	-	-	262	19	58
		600mm Corrugated Steel Pipe	Lin.M	4,980	249,000	-	-	-	-	59
		Manhole, Type 1	Each	105,825	2,116,500	-	-	-	-	60
		Manhole, Type 2	Each	179,280	717,120	-	-	-	-	61
		Inlet, Type 1	Each	30,295	4,665,430	-	-	113	-	62
		Inlet, Type 2	Each	58,930	2,651,850	-	-	3	-	63
		200mm Perforated Concrete Pipe	Lin.M	4,920	1,494,000	-	-	53,420	90	64
		Galvanized Beam-Type Guardrail	Lin.M	4,150	13,944,000	-	-	5,710	-	65
		Wire Fence	Lin.M	581	35,150,500	-	-	59,099	12	66
		Gate, Single, 4.0 M	Each	13,220	212,380	-	-	1	-	67
		Gate, Double, 6.5 M	Each	23,240	418,320	-	-	4	-	68
		Concrete Curb, Type 1	Lin.M	1,073	2,211,950	-	-	4,331	04	69
		Concrete Curb and Gutters, Type 1	Lin.M	2,241	9,501,800	DELETED	PER CCO NO. 39	-	-	70
		In-situ Concrete Curb	Lin.M	913	13,640,220	-	-	-	-	71
		Loose Riprap	Cu	2,935	521,000	-	-	2,027	15	72
		Portland Bubble Faced Waterway, Type A	Sq.M	1,411	35,275,000	-	-	8,431	65	73
		Portland Bubble Faced Waterway, Type B	Sq.M	1,079	3,237,000	-	-	9,055	06	74
		Bituminous Faced Waterway	Sq.M	415	1,581,150	-	-	-	-	75
		Supply of Dry Requirements	Each	4,565	1,671,550	DELETED	PER CCO NO. 2	-	-	76
		Furnishing and Flacing Topsoil	Sq.M	29	2,254,280	-	-	-	-	77
		Sprinkle	Are	2,655	19,216,100	-	-	9,533	17	78
		Concrete Block Slope Protection	Sq.M	2,420	9,337,500	DELETED	DURING BID NEGOTIATIONS	-	-	79
		Roadway Marking	Lin.M	8	1,383,610	-	-	129,843	00	80
		Road Sign, Type A	Each	13,280	132,800	-	-	-	-	81
		Road Sign, Type B	Each	10,750	323,700	-	-	-	-	82
		Road Sign, Type C	Each	13,695	479,325	-	-	-	-	83
		Sub-totals								84
		Sheet No. 2								
										500,291,704

JAGORAWI

PROJECT RECORD-ESTIMATE B

HIGHWAY PROJECT

RUPIAH Ammann & Whitney
SHEET 3 Trans-Asia Engineering

SECTION B

Period No. 61 Estimate No. 61 Date August 2, 1979
Period Dates June 26, 1979 thru July 25, 1979

EID SCHD NO.	PAY ITEM NO.	I T E M S	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	(5) (6)		(7) (8)		BID SCHD NO.
						Quantity	Amount	Quantity	Amount	
55	532(4)	Road Sign, Type D	Each	10,750	323,700	-	-	-	-	85
56	532(5)	Road Sign, Type E 1	Each	4,895	234,475	-	-	-	-	86
57	532(6)	Road Sign, Type E 2	Each	53,950	539,500	-	-	-	-	87
58	532(7)	Road Sign, Type F 1	Each	48,150	288,840	-	-	-	-	88
59	532(8)	Road Sign, Type G 1	Each	2,735	29,880	-	-	-	-	89
60	532(9)	Road Sign, Type G 2	Each	52,290	156,870	-	-	-	-	90
61	532(10)	Road Sign, Type G 3	Each	83,615	234,150	-	-	-	-	91
62	532(11)	Road Sign, Type G 4	Each	22,850	394,250	-	-	-	-	92
63	532(12)	Road Sign, Type G 5	Each	74,225	371,425	-	-	-	-	93
64	532(13)	Road Sign, Type H 1	Each	106,520	2,031,600	-	-	-	-	94
65	532(14)	Road Sign, Type H 2	Each	66,440	112,820	-	-	-	-	95
66	532(15)	Road Sign, Type H 3	Each	42,140	182,560	-	-	-	-	95
67	532(16)	Road Sign, Type H 4	Each	82,150	522,500	-	-	-	-	97
68	532(17)	Illumination System Complete, Arc A	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	98
69	532(18)	Illumination System Complete, Arc B	L.S.	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	99
70	532(19)	Illumination System Complete, Arc C	L.S.	-	2,052,550	-	DELETED BY CCO # 100	-	-	100
101	111(1)	Housing, Type A	Each	6,610,950	6,610,950	-	-	95.00 %	6,280,402	101
102	111(2)	Housing, Type B	Each	549,725	33,294,270	-	-	95.00 %	31,633,833	102
103	111(3)	Housing, Type C	Each	4,582,430	4,582,430	-	-	95.00 %	4,353,723	103
104	111(4)	Housing, Type D	Each	-	DELETED DURING BID NEGOTIATIONS	-	-	-	-	104
105	111(5)	Contractor Warehouse	Each	14,750,345	14,750,345	-	-	100.00 %	14,750,345	105
106	111(5)	Contractor Shop	Each	9,689,835	9,689,835	-	-	100.00 %	9,689,835	106
107	111(7)	Contractor Weigh House & Scale	L.S.	-	2,730,700	-	-	100.00 %	2,730,700	107
108	111(8)	Engineer's Office & Laboratory	L.S.	-	4,835,520	-	-	100.00 %	4,835,520	108
109	111(9)	Engineer's Vehicles	L.S.	-	1,000,000	-	-	100.00 %	-	109
110	532(1)	Asphalt Pave (CCO 7)	Each	13,300	1,654,000	-	-	100.00 %	1,622,600	110
111	532(2)	Asph Pipe, 6" x Long (CCO 7)	Each	4,400	4,224,000	-	-	100.00 %	4,018,000	111
112	532(3)	Reinforcement Junction Box (CCO 7)	Each	5,000	2,000,000	-	-	100.00 %	3,370,000	112
113	532(4)	S.A. 55-104 Inlets (CCO 25)	L.S.	-	8,214,535	-	-	100.00 %	8,214,535	113
114	532(5)	S.A. 55-205 Inlets (CCO 26)	L.S.	-	11,523,415	-	-	100.00 %	11,523,415	114
115	532(6)	Asphalt Delimitation Strip	Lin-ft	1,262	8,031,560	-	-	-	-	115
Extra Work:										
		CCO 5 Slope Pipe For Gas Line	L.S.	-	3,050,000	-	-	100.00 %	3,050,000	
		CCO 10 Engineer Housing Civil Works	L.S.	-	503,840	-	-	100.00 %	503,840	
		CCO 19 Emer. Veh. Customs Reimb.	L.S.	-	2,024,228	-	-	100.00 %	2,024,228	
		CCO 20 Median Inlet Connections	Each	Varies	20,000	-	-	100.00 %	40,000	
		CCO 21 Slope Pipe For Water Line	L.S.	-	1,052,000	-	-	100.00 %	1,052,000	
		CCO 24 Sag Culvert Sta. 32+274	L.S.	-	9,272,000	-	-	100.00 %	9,272,000	
		CCO 24 Sagul #1 Repair Drain System	L.S.	-	130,000	-	-	100.00 %	130,000	
		CCO 27 Modified Type 1 Median Inlets	Each	Varies	14,250	-	-	100.00 %	14,250	
		CCO 29 Bridge Strand Protection	Each and L.S.	-	501,000	-	-	107.19 %	527,000	
		CCO 30 Replace ATB 34+802/34+980 LT	L.S.	-	2,105,000	-	-	100.00 %	2,105,000	
		Sheet No. 3 Sub-Totals								122,776,562

VI. 7. . . . MONTHLY PAY ESTIMATE NO. 61

SECTION VI APPENDIX

Period No. 61 Procurement No. 61 Date August 2, 1979
 Period Dates June 26, 1979 thru July 25, 1979

SECTION 5

(5) (6) (7) (8)

BID NO.	PAY ITEM NO.	ITEMS	Units	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID TOTAL NO.
						Quantity	Amount	Quantity	Amount	
	CCO 100	Highway Lighting at Jakarta By Pass	L.S		24,835,169	-	-	100.00 %	24,835,169	
	CCO 77	Adjust of Compensation	L.S		2,521,567	-	-	100.00 %	2,521,567	
	CCO 93	Special Allowance/Personnel Extra work						100.00 %	14,080,639	
	CCO 07	Retention/Credit for U.S. AIA Code 925 Retention	L.S		101,149,917	-	-	100.00 %	101,149,917	
	CCO 115	L.S. Adjustment Conc.Curb Type I			434,432	-	-	100.00 %	521,567	
	CCO 115	Adjust of compensation revised hard soil	L.M	555	50	-	-		5,210	3,229,005
	CCO 111	Foreign Source Induction	L.S		(-12,923,557)	-	-	100.00 %	(-12,923,557)	
	CCO 124	7.5% Increase for materials of foreign source	L.S		21,352,778	-	-	100.00 %	21,352,778	
	CCO 124	Retention at road sign							33,500,000	
	CCO 87	Retention/Credit for U.S. AIA Code 935 Stimulus			50,818,624	-	-	100.00 %	50,818,624	
	CCO 82	L.S. Payment Pr. 30-43)	L.S		272,000	-	-	100.00 %	272,000	
									243,257,600	

VI. 7. MONTHLY PAY ESTIMATE No. 61

SECTION VI APPENDIX

Best Available Document

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SECTION

PROJECT ACCOUNT ESTIMATE

REVISION

DATE & BY

SECTION B

Period No. 61 August 2, 1979
 Period Dates: June 26, 1979 thru July 25, 1979

SHEET 6

TRANS - ASSE ESTIMATE

ITEM NO.	ITEMS	UNIT	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	(5) THIS ESTIMATE		(7) TOTAL ESTIMATE		TOTAL NO.
					Quantity	Amount	Quantity	Amount	
Sheet No. 1	Sub Totals								
Sheet No. 2	Sub Totals					21,375,771		2,238,518,711	
Sheet No. 3	Sub Totals					-		562,211,704	
Sheet No. 4	Sub Totals					-		122,778,652	
Sheet No. 5	Sub Totals					2,602,190		352,022,642	
CONTRACTS - CONTRACT ITEMS									
(A) Time and Materials Extra Work									
(B) Adjustment Compensation									
						23,377,961		3,457,999,623	
CONTRACTS - WORK DONE									
(A) Materials on Hand									
(B) Material Cost Escalation									
(C) Labor Cost Escalation									
						23,377,961		3,457,999,619	
						-		185,579,381	
						(-) 74,624		7,822,925	
CONTRACTS - WORK DONE, MATERIALS, CONTRACTS									
(A) Materials on Hand									
(B) Material Cost Escalation									
(C) Labor Cost Escalation									
						23,703,707		3,652,404,985	
						(-) 50,139,700			
(D) Released by Park Guarantee No. 19/73/EG									
						86,667,313		238,822,664	
(E) Retention									
						(-) 3,279,357		238,822,664	
TOTAL ESTIMATE									
						26,522,594		3,413,522,321	

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SECTION VI APPENDIX

VI. 7. MONTHLY PAY ESTIMATE NO. 61

105

1. July 31, 1979
 1978 101.29% 125.64%

JAGORAWI HIGHWAY PROJECT
STATUS OF CONTRACT CHANGE ORDERS AND FUNDS
SHEET 1 OF 3

CCO NO.	DESCRIPTION	CONTRACT CHANGE ORDERS					FUNDS												
		SECTION A or B	ETC SUBMIT	DATES			SECTION A		SECTION B		SECTION A & B COMBINED		SECTION A & B COMBINED						
				CONTR. ACCEPT	B.M. APPROV'D	B.M. APPROV'D	RUPIAH	DOLLAR	RUPIAH	DOLLAR	RUPIAH	DOLLAR	RUPIAH	DOLLAR					
							+ OR -	CUM TOT	+ OR -	CUM TOT	+ OR -	CUM TOT	+ OR -	CUM TOT	+ OR -	CUM TOT	+ OR -	CUM TOT	
	ORIGINAL AUTHORIZATION																		
1	CLIM R/W MONUMENTS	A	28 Dec 74	18 Dec 74	19 Dec 74	19 Dec 74	-1,336,892	-1,037.00											
2		B																	
3	REVISE PIPE HEADWALLS	A	7 Jan 75	9 Jan 75	20 Jan 75	22 Jan 75	-3,254,641	-1,300.13											
4		B																	
5	RCP DELETIONS THRU 1974	B	30 Jan 75	8 Feb 75	18 Feb 75	12 Feb 75													
6	GAS PIPELINE STA 42+400	B	23 Feb 75	23 Feb 75	23 Feb 75	27 Feb 75													
7	EMB. STABILIZATION	B	21 Mar 75	3 Apr 75	6 May 75	2 May 75													
8	CULV CHANGE, 1st QUAR. 1975	B	6 May 75	7 May 75	17 May 75	23 May 75													
9	ENGR. HOUSING CIVIL WORKS	A	10 July 75	10 July 75	23 July 75	24 July 75	+708,085												
10		B																	
11	CULV CHANGES, 2nd QUAR. 1975	A	21 July 75	22 July 75	18 Aug 75	16 Aug 75	-8,427,317	101,403.42	-247,987	10,116,844.27									
12		B																	
13	REV. MOBILIZATION PAYM'T.	A + B	8 Aug 75	9 Aug 75	16 Aug 75	18 Aug 75													
14	DECL. PED. RCB WATERPROOFING	A	19 Aug 75	21 Aug 75	1 Sept 75	12 Sept 75													
15		B																	
16	REVISE BIT MIX SPEC'S	A + B	18 Aug 75	23 Aug 75	1 Sept 75	12 Sept 75													
17	10+439 (B.C.) CROP INLET	A	24 Sep 75	27 Sep 75	3 Oct 75	9 Oct 75	+619,000												
18	ENGR. B. VEH. CUSTOM BEING	A	22 Aug 75	23 Aug 75	8 Sept 75	12 Sept 75	+2,024,228	124,244.83											
19		B																	
20	MIDIAN INLET ADDITIONS	B	23 Aug 75	25 Aug 75	1 Sept 75	12 Sept 75													
21	32+888 WATER LINE XING.	B	3 Sept 75	3 Sept 75	20 Oct 75	8 Nov 75													
22	CULV CHANGE, 3rd QUAR. 1975	A	8 Nov 75	12 Nov 75	23 Nov 75	25 Nov 75	-816,121	103,250.27	-838.37	10,403,268.28									
23		B																	
24	31+2 CULVERT 39+274	B	15 Nov 75	15 Nov 75															
25	PROFILE REVISIONS	B	15 Nov 75	12 Dec 75	19 Dec 75	23 Dec 75													
26	BRIDGE REVISIONS	B	15 Nov 75	15 Nov 75	16 Dec 75	18 Dec 75													
27	MOD. TYPE I MED. INLETS	B	8 Nov 75	8 Nov 75	20 Nov 75	23 Nov 75													
28	BRIDGE STRAND PROTECTION	A	11 Nov 75	12 Nov 75			+408,000	151,734.28											
29		B																	
30	REPLACE ATB 34+830/34+902	B	20 Nov 75	28 Nov 75	16 Dec 75	18 Dec 75													
31	ELM. BARAHANGDIANG CONSTR.	A	3 Dec 75	8 Dec 75	19 Dec 75	23 Dec 75	-3,343,360	89,294.89	-73,033.23	10,012,800.00									
32	WIDE-R. RETENTION FFLEASE	B	16 Jan 76	16 Jan 76	17 Jan 76	19 Jan 76													
33	CULV CHANGES, 4th QUAR. 1975	A	24 Jan 76	28 Jan 76	19 Feb 76	24 Jan 76	-4,393,075		-8,474.75	20,213,808.8									
34		B																	
35	LOCAL MATT. ESCALATION	A	16 Jan 76	16 Jan 76	19 Feb 76	24 Jan 76	+2,245,629	570,000.85											
36		B																	
37	PLANT POST REVISIONS	A + B	10 Feb 76	16 Feb 76	8 Feb 76	7 Mar 76													
38	TRAMP. CURB REVISIONS	A	29 Mar 76	30 Mar 76	28 Apr 76	12 July 76	-13,155,315	120,614,214	-46,337.92	9,217,473.16									
39		B																	
40	WIDE-R. ARCHWAY REV'S	A	4 Feb 76	4 Feb 76	18 Feb 76	24 Mar 76	+3,215,000	1,244,130.25											
41		B																	
42	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
43	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
44	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
45	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
46	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
47	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
48	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
49	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
50	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
51	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
52	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
53	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
54	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
55	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
56	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
57	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
58	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
59	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
60	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
61	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
62	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
63	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
64	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
65	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
66	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
67	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
68	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
69	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
70	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
71	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
72	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
73	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
74	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
75	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
76	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
77	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
78	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
79	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
80	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													
81	WIDE-R. ARCHWAY REV'S	B	23 Feb 76	23 Feb 76	1 Mar 76	24 Mar 76													

JAGORAWI HIGHWAY PROJECT
 STATUS OF CONTRACT CHANGE ORDERS AND FUNDS
 DECT 2 OF 3

CCO No.	DESCRIPTION	CONTRACT CHANGE ORDERS					FUNDS											
		SECTION A or B	EIC SUBMIT	CONTR. ACCEPT	DATES		SECTION A		SECTION B		SECTION C		SECTION D		SECTION E		SECTION F	
					APPRV'D	B.M. APPRVD	RUPIAN	DOLLAR	RUPIAN	DOLLAR	RUPIAN	DOLLAR	RUPIAN	DOLLAR	RUPIAN	DOLLAR	RUPIAN	DOLLAR
	ORIGINAL AUTHORIZATION																	
44	DR. BAS. ANCHOR BOLT REV'S	B	20 May 76	21 May 76	3 June 76	4 June 76												
45	CONNECT PUMP PIPE'S TO DRAIN	B	21 May 76	22 May 76	23 June 76	24 July 76												
46	CORRECT RIVER CHANNEL REV'S	B	22 June 76	23 June 76	8 July 76	13 July 76												
47	REPLACE STR 34-517/34-933	B	21 May 76	20 May 76	28 June 76	2 July 76												
48	S&S CULVERT 23-300	A	18 June 76	18 June 76	3 Aug 76	4 Aug 76	13,308,800	= 8,848 00										
49	REV'D WATERKEY 39-03/37-073	B	20 June 76	22 June 76	8 July 76	13 July 76												
50	PROFILE GRADE REVISIONS	A	27 Aug 76	19 Oct 76	29 Oct 76	1 Nov 76	-56,247,900	-340,230 00										
51	EMBANKMENT STABILIZATION	A	7 July 76	8 July 76	23 July 76	23 Aug 76	-19,885,240	-1,077,382 00	-25,830 00	1,877,844 00								
52																		
53	TEMP ACCESS ROAD 44 + 735	B	18 Sept 76	20 Sept 76	11 Oct 76	26 Oct 76												
54	STATION 56 + 535 DETOUR ROAD	B	20 Sept 76	20 Sept 76	11 Oct 76	26 Oct 76												
55	PROFILE REV'S 45-645/46 + 063	B	8 Nov 76	9 Nov 76	16 Nov 76	2 Dec 76												
56	DELETE AC CURB BARRIAP FLUMES	A	28 Oct 76	30 Oct 76	13 Nov 76	6 Dec 76	-18,128,560	-17,828 80										
57	DELETE AC CURB BARRIAP FLUMES	B	28 Oct 76	30 Oct 76	13 Nov 76	6 Dec 76												
58	UTILITY DUCTS 33-630	B	12 Apr 77	13 Apr 77	30 Apr 77	28 Apr 77	1,876,436,240	9,879,908 80	-5,844 000									
59	SUPPLY S&S CULV 73-500	A	12 Oct 76	24 Oct 76	24 Oct 76	5 Jan 77	-320,000	-1,129 00										
60	SECURITY SECTION U/DRAINS	B	23 May 76	24 May 76	23 Oct 76	5 Jan 77												
61	BRIDGE REVISIONS	A	6 Jan 77	8 Jan 77	3 Feb 77	18 Feb 77	778,878	-9,878 23										
62	S&S JAGOR SUBGRADE TEST SECT	A B B	13 Mar 76	15 Mar 76	16 Mar 77	23 Mar 77	-1,978,000											
63	LOCAL MAT'L ESCALATION	A	14 Jan 77	14 Jan 77	3 Feb 77	18 Feb 77	-40,219,909											
64	CULVERT CHANGES 1978	A	14 Jan 77	14 Jan 77	3 Feb 77	18 Feb 77												
65		B	21 Jan 77	21 Jan 77	3 Feb 77	18 Feb 77												
66	S&S CULVERT 23-647.30	A	16 Jan 77	16 Jan 77	3 Feb 77	18 Feb 77	-2,539,000	-4,499 00										
67	ASPHALT MIX REDUCED PRICE	B	10 Feb 77	10 Feb 77	15 Feb 77	4 Mar 77												
68	ASPHALT CEMENT COST REDUCTION	B	29 Jan 77	29 Jan 77	13 Feb 77	4 Mar 77												
69	STRIP SOD IN LIEU OF SPRING	B	17 Mar 77	18 Mar 77	19 Mar 77	23 Mar 77												
70	BRIDGE ORDER PRICE REDUCTION	B	10 Feb 77	13 Feb 77	13 Mar 77	23 Mar 77	1,962,578,400	9,804,778 80	2,723,730 340	-1,269 00	11,406,02 17	4,646,789,748	22,030,882 09	31,206,768 80				
71																		
72	CHANNEL REV'S 42-270/34-800	A	22 Apr 77	13 Apr 77	20 Apr 77	28 Apr 77	-3,368,932	-6,270 80										
73	BRIDGE 53+725 LIGHTING CONSULT	B	1 Apr 77	1 Apr 77	8 Apr 77	20 Apr 77												
74	S&S CULVERT 13-163	A	16 Apr 77	16 Apr 77	20 Apr 77	28 Apr 77	-3,488,000	-12,049 00										
75	BRIDGE 51+750 REBAR PROTECTION	B	21 Apr 77	23 Apr 77	8 May 77	18 May 77												
76	SUPPLY PAV'T. SECT UNDER DRAINS	B	13 May 77	13 May 77	22 Jun 77	24 Jun 77	128,458,363	1,623,091 77	-6,508,984	2,738,000,329	6,818 78	12,493,403 00	4,664,483,882	22,042,440 82	31,282,800 34			
77	REMOVING PER 2,3,4 5R 37-580	B	11 July 77	30 Jun 77	11 July 77	15 July 77												
78	SUPPLY ADD'NL UTILITY DUCT 33-630	B	18 July 77	8 July 77	123 July 77	28 July 77												
79	ORAN REV. & TOLL PLAZA RCB	B	29 May 78	8 July 78	11 Aug 78	14 Aug 78												
80	GAS LINE UTILITY DUCT 3-RCS	B	20 Aug 77	24 Feb 78	10 Mar 78	6 Apr 78												
81	ELEC CONSULT STA 53-750	B	22 Aug 77	23 Aug 77	24 Aug 77	10 Sept 77												
82	REVISIONS REVISIONS	B	9 Sept 77	13 Sept 77	17 Sept 77	6 Oct 77												
83	PAV'TMENT REVISIONS	A	9 Sept 77	29 Sept 77	17 Oct 77	6 Oct 77	209,844,202,244,022,515	1,362,225 00	9,983,224 77	1,063,68 43		12,782,080 20	5,204,260 34	22,777,345 82	30,322,322 88			
84	CULVERT CHANGES 1 st 51+800 77	B	1 Mar 77	30 Mar 77	17 Oct 77	21 Oct 77												
85	BRIDGE STA 34 + 443	B																
86	DELETION OUTLINE ROAD STA 718	B	8 July 76	8 July 76	18 Oct 76	18 Oct 76												

NOTE: CCO 78 PAY BY P.N. GAS.

VI. 8. . . . LISTING OF CONTRACT CHANGE ORDER (Cont'd)

SECTION VI APPENDIX

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SECTION VI APPENDIX

VI. 9. . . . STATUS OF FUNDS AND CONTINGENCY

STATUS OF US DOLLAR FUNDS (AS OF JULY 31, 1979)

I.	PROBABLE FINAL COST FOR ITEM WORK AND CONTRACT CHANGE ORDER WORK (INCLUDING UNSIGNED COO'S).	
	SECTION A	\$ 10,040,000.00
	SECTION B	<u>\$ 11,500,000.00</u>
	SUB-TOTAL	\$ 21,540,000.00
II.	EXCESS MATERIALS ON HAND (90% OF INVOICE VALUE)	\$ 104,594.33
III.	PARTICIPATION IN PURCHASE OF EXCESS MATERIALS ON HAND FOR DELIVERY TO BINA MARGA (ADDITIONAL 10% + 25% MARKUP FOR OVERHEAD AND PROFIT)	\$ 36,608.02
IV.	PARTICIPATION IN MAJOR ITEM COST ADJUSTMENT ?	\$?
V.	ADDITIONAL AID SHIPPING DEDUCTIONS (SEE AID AUDIT REPORT)	(-) \$ 250,000.00
VI.	PARTICIPATION IN CLAIM PAYMENTS	<u>\$?</u>
		\$ 21,431,202.35
VII.	MAINTENANCE EQUIPMENT	\$ 660,000.00
VIII.	ENGINEERS CONTRACT PLUS AMENDMENT NO.1 THRU NO.5	\$ 3,077,207.00
IX.	BANKING CHARGES	\$ 45,000.00
X.	ADDITIONAL BANKING CHARGES DUE TO EXTENSION OF TDLA & TDD	<u>\$?</u>
	SUB-TOTAL KNOWN COSTS	\$ 25,213,409.35
	AUTHORIZED LOAN AMOUNT	<u>\$ 26,000,000.00</u>
	CONTINGENCY	\$ 786,590.65

(Cont'd)

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SECTION VI APPENDIX

VI. 9. . . . STATUS OF FUNDS AND CONTINGENCY (Cont'd)

STATUS OF RUPIAH FUNDS

I. SECTION A ITEM WORK + CHANGE ORDERS	Rp 3,189,238,860
SECTION B ITEM WORK + CHANGE ORDERS	Rp 3,652,404,985
CONTRACT AMENDMENT NO. 1 (ORIG. AMPL.)	Rp 2,756,347,000
CONTRACT AMENDMENT NO. 2 (ORIG. AMPL.)	Rp 288,460,530
TOTAL RUPIAH DEVALUATION CLAIM (APPROXIM. Rp. 400,000,000 AMPL. TO DATE)	Rp 520,000,000
CIAWI INTERSECTION, CIAWI TOLL PLAZA CLAIM, BOGOR TOLL & BOGOR CORRECTION	Rp 300,000,000
CONTINGENCY FOR OTHER CLAIMS, OVERRUN/ UNDERRUN PRICE ADJUSTMENTS, ETC.	Rp 400,000,000
PURCHASE OF EXCESS MATERIALS	<u>Rp 25,000,000</u>
SUB-TOTAL (PAYMENTS TO HYUNDAI)	Rp 11,131,451,375

II. ENGINEER'S PAYMENTS

ESTIMATED FINAL INVOICED AMOUNT Rp 1,000,000,000

(NOTE : SAVINGS = 1,067,190,571 - 1,000,000,000
= 67,190,571)

III. ESTIMATED TOTAL AMOUNT TO BE PAID Rp 12,131,451,375
(ENGINEER + CONTRACTOR)

IV. A CLAIM FOR US \$ 23,800,000 HAS BEEN SUBMITTED.
EQUIVALENT RUPIAH COSTS ARE Rp 14.9 BILLION.