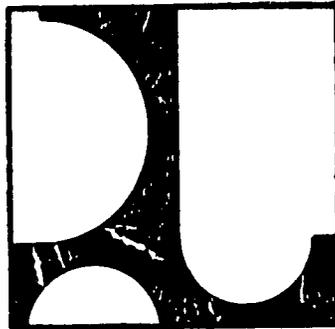


PS. NAI-192  
ISN 13523

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# REPUBLIK INDONESIA

DEPARTEMEN PEKERJAAN UMUM  
DIREKTORAT JENDERAL BINA MARGA



## JAGORAWI HIGHWAY STAGE II

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MONTHLY REPORT  
SUPERVISION

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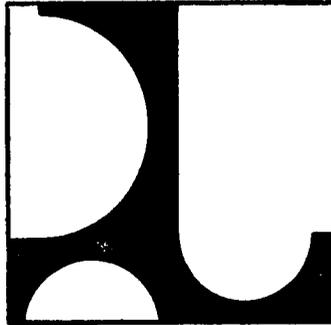
FEBRUARY 1981

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

# **REPUBLIK INDONESIA**

**DEPARTEMEN PEKERJAAN UMUM**

**DIREKTORAT JENDERAL BINA MARGA**



## **JAGORAWI HIGHWAY STAGE II**

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**MONTHLY REPORT  
SUPERVISION**

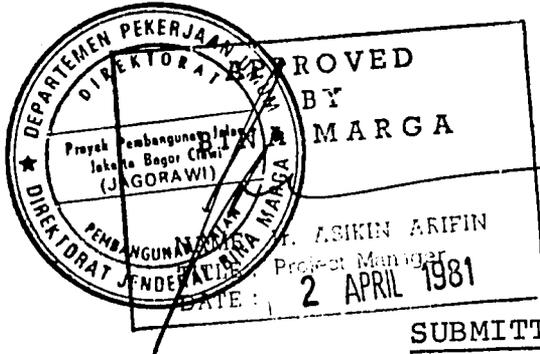
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**FEBRUARY 1981**

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

**CONSULTING ENGINEERING**

JAGORAWI HIGHWAY PROJECT  
CONSULTING SUPERVISION SERVICES



SUBMITTED BY :

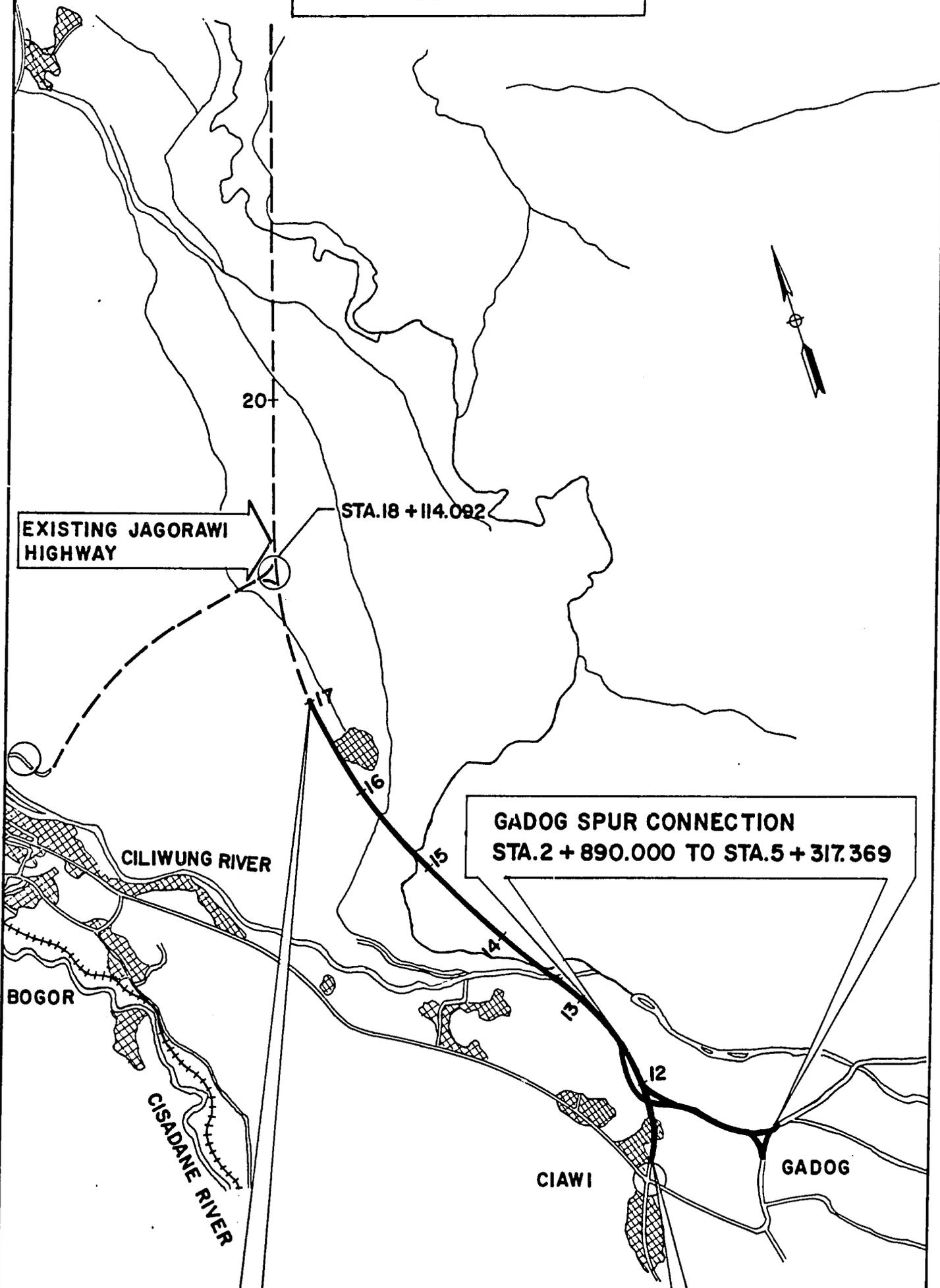
LARRY G. BUNTEN  
Engineer in Charge

FOR THE MONTH OF FEBRUARY, 1981

Prepared by :

JOINT VENTURE FIRM OF  
AMMANN & WHITNEY/TRANS-ASIA  
ENGINEERING ASSOCIATES, INC.,  
P.O. Box 44, Bogor,  
I N D O N E S I A

**JAGORAWI HIGHWAY  
STAGE II  
SITE MAP  
SCALE 1:50.000**



**EXISTING JAGORAWI  
HIGHWAY**

STA.18 + 114.092

**GADOG SPUR CONNECTION  
STA.2 + 890.000 TO STA.5 + 317.369**

CILIWUNG RIVER

BOGOR

CISADANE RIVER

CIAWI

GADOG

20

16

15

14

13

12

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Page revised  
May 4, 1981

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SECTION I . . . . NARRATIVE SUMMARYI. 1. . . . STAGE II CONSTRUCTION

There has been no change in the status of the project. Sekneg has not approved the contract between Bina Marga and ICCI and there has been no response from the Department of Public Works to Sekneg's objections.

Bina Marga withdrew all Government-owned equipment from ICCI in December, 1980 and the equipment remains in the custody of Bina Marga. ICCI stopped work after the equipment was withdrawn, and no work has been accomplished since. ICCI maintains an office at Baranangsiang and a small administrative staff.

Bina Marga had offered a Rp 300,000,000 advance to ICCI. A work plan and cash flow was prepared by ICCI and presented to Bina Marga. However, Bina Marga was not able to approve payment of the advance to ICCI. Thus, ICCI remains without funds.

Bina Marga has advised that construction funding for Jagorawi Stage II will be transferred to Jasa Marga. Funding for toll roads, including Jagorawi will be generated by sale of bonds by RDI, a Government Agency. We understand that the Engineer's Rupiah expenses will also be financed by RDI.

The Engineer has formally requested that Bina Marga petition US/AID to extend the Engineer's Dollar letter of commitment ~~which expires April 30th.~~ AID has stated they may not extend

SECTION I . . . . NARRATIVE SUMMARYI. 1. . . . . STAGE II CONSTRUCTION (Cont'd)

and ICCI in implementing the work. If the letter of commitment is not extended, the Engineer can not collect payment of Dollar invoices after April 30th.

I. 2. . . . . STAGE I MAINTENANCE

The Engineer, US/AID, Bina Marga and P.T. Pluit Bataco discussed implementing the seal coat program. Pluit will prepare a new supply of emulsion for testing, and feels the new emulsion will meet project specifications. Additional test sections of fog seal and a slurry seal test section will be placed if the new emulsion meets specifications.

Page revised  
May 4, 1981

SECTION II . . . . PROBLEM AREAS

II. 1. . . . CONTRACT APPROVAL

There is no change in the status. The National Secretary has required some revisions to the draft contract and the Department of Public Works has not yet responded.

II. 2. . . . FUNDING

ICCI will not pre-finance the work. A Rp 300,000,000 advance, promised by Bina Marga to get the work started, has been stalled for lack of approval to forward these funds to ICCI.

With financing reportedly transferred to a different Government Agency (RDI) and no longer to be financed out of the National Budget, it appears that the draft contract may have to be withdrawn from Sekneg and submitted to RDI/Jasa Marga for approval ?

US/AID has stated they may not extend the Engineer's Dollar letter of credit because Bina Marga has not implemented a construction contract and ICCI will not progress the work. If AID refuses to extend the Dollar letter of commitment, the Engineer can not collect payment of Dollar invoices after April 30, 1981.

II. 3. . . . TRAINEES

ICCI has reached an agreement with CDME to limit trainees to about 50 percent of total personnel. Also, we understand that Grey International will no longer be directly involved at the project level. Thus, it appears that use of trainees will no longer be a major problem.

II. 4. . . . BUTAS ROCK ASPHALT

Page revised  
May 4, 1981

SECTION II . . . . PROBLEM AREAS

II. 4. . . . BUTAS ROCK ASPHALT

A tabulation of test results on various Butas Rock Asphalt projects in Indonesia, extracted from Bina Marga reports given us by the Bandung Lab, follows. Note the wide variations in extracted asphalt contents, and Marshall stabilities. Also note the very low compacted densities reported.

5A

SUMMARY OF BANDUNG TEST I

DESCRIPTION	ENGINEER INSPECTED SITE ----- BANDUNG								
	Jl. Bandung-Cirebon (Loc. I)			Jl. Supratman (Loc. II & III)			Jl. Martadinata (Loc. IV)		
Passing # 30 (%)	21	-	33*	23	-	28	22	-	34*
Passing # 50 (%)	18	-	30*	20*	-	23*	16	-	22*
Passing #200 (%)	5	-	18*	9*	-	12*	5	-	8
Stability, lbs.	1,501	-	2,940	624*	-	2,265	771	-	3,782
Flow, .01 inch	11	-	29*	11	-	15	16	-	21*
Lab. S.G.	2.13	-	2.25	2.06	-	2.21	1.9		2.30
Core S.G.	2.09	-	2.27	2.03	-	2.15	2.05		
Asphalt Content by extraction (%)	7.5*	-	17.2*	7.65*-		9.49*	5.87	-	8.0.
Mixing Temp. °C	95*	-	168*	90*	-	130*	90*	-	130*
Paving Temp. °C			90 ±*			80 ±*			80 ±
Calc. Voids (%) (by Engineer)	0*	-	2*	3	-	10*	11*		
EST'D SERVICE LIFE (YRS.)	3	-	5	Less than 1 yr.			6 months		
R E M A R K S	Rough pavement, some cracking and several push out failures.			Severe raveling and cracking. Rough paving.			Severe raveling, pot holes, local bleeding, settle ments very rough paving.		

BANDUNG TEST RESULTS & FIELD OBSERVATIONS

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- BANDUNG		Jl. Diponegoro Bandung	Ujung Pandang	B A L I AC+Flux+Butas	Specifications/ Recommendations
Jl. Martadinata (Loc. IV)					
22	- 34*	26	17 - 33*	-----	13 - 28
16	- 22*	23*	12 - 24*	-----	9 - 20
5	- 8	12*	2 - 10*	-----	4 - 8
771	- 3,782	3,112 - 3,612	532* - 6,844	400* - 4,760	750 min.
16	- 21*	15 - 21*	10 - 39*	10 - 24*	8 - 16
1.9	2.30	2.24 - 2.28	2.14 - 2.28	1.80 - 2.30	-----
2.05		2.08 - 2.20	2.01 - 2.24	- 2.27	-----
5.87	- 8.03*	7.19	6.07*- 12.88*	-----	Loc IV 5.6-6.4 Others 6.6-7.4
90*	- 130*	150 ±	90* - 140	75* - 140	135 - 163
80 ±		120 ±	105 ±*	40* - 130	107 - 163
11*		4 - 11*	1* - 12*	-----	3 - 5
6 months		-----	-----	-----	6 - 8 years for Overlays
Severe raveling, pot holes, local bleeding, settle- ments very rough paving.		-----	Kompas reports some failures during first year.	-----	-----

SECTION III . . . . ADMINISTRATION

III. 1. . . . SUBMISSION/APPROVALS

The Engineer's Dollar Invoice No. 68 for December and Rupiah Invoice No. 81 were approved by Bina Marga.

III. 2. . . . DECISIONS

Bina Marga has decided to require use of Butas Rock Asphalt on Jagorawi Stage II.

III. 3. . . . MAJOR CONFERENCES

A- A meeting with P.T. Pluit Bataco Raya, AID, Jasa Marga, Bina Marga and the Engineer was held on February 4th (see Section VII Maintenance). The regular monthly maintenance meeting followed.

B- A project level meeting of ICCI, Bina Marga and the Engineer was held on February 5th. ICCI's work plan and cash flow for the Rp 300,000,000 advance available from Bina Marga were discussed and generally approved.

C- A meeting with the Director of Construction, Mr. Koski of US/AID, Bina Marga, ICCI and the Engineer was held on February 9th.

- ICCI's cash flow and work plan were submitted; however, Bina Marga was not able to commit the Rp 300,000,000 advance to ICCI.

- The group was informed that financing for Jagorawi Stage II would be shifted to RDI/Jasa Marga.

- The Engineer and AID were informed that ICCI would use 50 percent skilled workmen and 50 percent trainees.

- The Director of Construction advised that use of Butas

SECTION III .... ADMINISTRATIONIII. 4. .... OFFICIAL VISITORS

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

III. 5. .... FINANCIAL OVERRUNS/UNDERRUNS

The Engineer has requested that Bina Marga petition US/AID to extend the Engineer's Dollar Letter of Commitment which expires April 30, 1981.

US/AID has stated they may not extend the L/C because Bina Marga has not implemented signing of a contract for Stage II and ICCI is not working.

Because of delays in obtaining a contract for Jagorawi Stage II, the Engineer advises Bina Marga that authorized Dollar and Rupiah funding will not be sufficient to complete engineering supervision of the construction contract.

## SECTION IV .... ENGINEERING PROGRESS

### IV. 1. .... SURVEYS

The survey crew made pre-construction cross sections for several culverts on the Gadog Connection.

### IV. 2. .... LABORATORY

The lab crew performed tests on Butas rock asphalt samples provided by Bina Marga. Attempts were made to produce a slurry by mixing the Butas with diesel and kerosine. The slurry was not acceptable for use in a hot plant. The bitumen content by extraction was 15.4 percent. Moisture content of the Butas was 22 percent.

The crew also made exploratory borings at Bridge Station 41 approach slab and prepared a trial concrete mix design for Bina Marga.

Further sand testing was carried out on samples taken by the Engineer from Ciapus during the month. So far no satisfactory sand has been tested and it appears that concrete sand will have to be treated (washed, sieved) before use.

A revised list of laboratory equipment was prepared and C.V. Sardo and P.T. Ekaputera of Jakarta were asked to submit quotations.

### IV. 3. .... STRUCTURES

Inspection of structures continued, maintenance and repair problems were discussed with Mr. Ibnu, the maintenance engineer for Jasa Marga.

At the request of Bina Marga's project manager, special consideration was given to the investigation of the approach slab of bridge Sta. 41+502, where the pavement cracking around the

SECTION IV . . . . ENGINEERING PROGRESSIV. 3. . . . STRUCTURES (Cont'd)

Borings were taken at the sides of the shoulders and dye was fed into the holes on the high side to estimate the velocity and direction of flow under the slab. Because of the limited facilities (slab could not be cored, no expander available, observation restricted by time limit and traffic, finally drilling machine broke down, etc.) no final results have been obtained but it was established that a definite flow existed under the slab and the slab itself was moving under traffic (pumping-section effect of muddy water was observed in the test hole).

To remedy the situation a small diameter coring bit with an expander set will be necessary as the slab will have to be cored to make possible mortar injection into the voids under the slab. The inflow of rainwater under the slab will have to be eliminated before mortar injection is applied.

Similar conditions, though not to the same extent, exist at a few other structures, which do not have aggregate base under the approach slabs.

IV. 4. . . . PAVEMENT

The Engineer traveled to Bandung to discuss research on Butas Rock Asphalt with the Bandung Laboratory. The Engineer received copies of many Bina Marga reports and is in the process of translating and evaluating these reports. The Engineer also visited Project "Suci" in Bandung where several Butas overlays have been constructed.

SECTION IV . . . . ENGINEERING PROGRESS

IV. 5. . . . . QUANTITIES & DESIGN

ICCI's shop plans for the Engineer's Office and the field inspector's office have been informally approved.

Design work on the Gadog frontage road continues.

Quantities for the civil works related to the Engineer's Housing at Baranangsiang were completed and draft CCO No. 5 covering these quantity increases was prepared and forwarded to ICCI.

The following is a status of draft contract change orders pending :

<u>No.</u>	<u>Description</u>	<u>Remarks</u>
CCO No. 1	Revise cut slopes to 2:1 and correct quantities of clearing and grubbing.	ICCI agrees with draft CCO.
CCO No. 2	Revise Engineer's vehicles.	ICCI now requests a price increase for this change.
CCO No. 3	3-edge bearing test machine.	Engineer recommends that ICCI's cost proposal be accepted.
CCO No. 4	Increase density requirements for Aggregate Base Course.	-----
CCO No. 5	Civil Works for the Engineer's Compound.	Includes an overlay of existing access roads and driveways.

SECTION V ..... CONSTRUCTION PROGRESS

V. 1. .... SCHEDULE

A CPM and bar schedule have been submitted and are pending approval. A work program and cash flow for a possible advance of Rp 300,000,000 has also been submitted.

V. 2. .... RAINFALL

Rainfall diminished during February.

RAINFALL DURING FEBRUARY

	<u>February</u>	<u>Average for Project Location</u>
No Rain Days	17	21.2
Maximum amount of Rainfall in one day	122 mm	-
Total amount of rain- fall during the month	458.5 mm	435.2

V. 3. .... PROGRESS

ICCI stopped work during December, 1980 and trainees have been returned to CDME. A small administrative staff is on hand at Baranangsiang.

SECTION VI . . . . CONTRACTORVI. 1. . . . EQUIPMENT

The equipment mobilized by Bina Marga was withdrawn from ICCI and remains in the custody of Bina Marga at Sanja or Sentul.

Except for the van and jeep mobilized by ICCI, the following equipment has been mobilized by Bina Marga or Pusbinal for the Jagorawi Project.

EQUIPMENT ON SITE

Description	Make/ Model/ Type	Owner	Public- Work Register No.	Serial No.	Arrived	From Location
Jeep	DAIHATSU	ICCI	B-1960-VG	-	Oct. 1, '80	-
Hi-Ace	TOYOTA	ICCI	B-7075-EP	-	Oct. 1, '80	-
Back Hoe Ex- cavator	POCLAIN	Pusbinal	CR/V-202	-	Sep. 16, '80 (Returned Nov. 7, '80)	Narogong
Motor Grader	Komatsu GD 600 RI	Bina Marga	AE/010/007	600R-10156	Sep. 29, '80	Cikampek
Motor Grader	Komatsu GD 600 RI	Bina Marga	AE/010/008	600R-10152	Sep. 30, '80	Cikampek
Motor Grader	Komatsu GD 600 RI	Bina Marga	AE/010/006	600R-10155	Sep. 30, '80	Cikampek
Dump Truck	Izusu	Bina Marga	F-202-XB	1682949	Sep. 30, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	F-203-XB	1682928	Sep. 30, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	F-204-XB	1682814	Sep. 30, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	F-205-XB	1682954	Sep. 30, '80	Cikampek
Drag Line	Linkbelt LS78	Bina Marga	28/281/001	LSS787911	Oct. 6, '80	Surabaya
Dozer Shovel	Halla FA	Bina Marga	AE/051/005	17931	Oct. 6, '80	Cikampek
Wheel Crane	American	Bina Marga	AE/062/002	05-075-0014	Oct. 6, '80	Cikampek
Wheel Loader	Halla 605 B	Bina Marga	AE/052/080	47L-06737	Oct. 7, '80	Surabaya
Wheel Loader	Halla 605 B	Bina Marga	AE/052/078	47L-06693	Oct. 7, '80	Surabaya
Wheel Loader	Halla	Bina Marga	AE/052/079	47L-06697	Oct. 7, '80	Surabaya

## SECTION VI . . . . CONTRACTOR

VI. 1. . . . EQUIPMENT (Cont'd)

Description	Make/ Model/ Type	OWNER	Public- Work Register No.	Serial No.	Arrived	From Location
Crawler Crane	P & H 550	Bina Marga	AP/281/003	E-40861	Oct. 10, '80	Surabaya
Crusher	Kongwan WPR 30	Pusbinal	AE/032/001	DB 2416	Oct. 7, '80	Cikampek
Crusher	Kongwan WPR 30	Pusbinal	AE/032/002	DB 2416	Oct. 7, '80	Cikampek
Gen Set 111 KVA	MAN	Bina Marga	AE/321/111	-	Nov. 7, '80	Cikampek
Gen Set 111 KVA	MAN	Bina Marga	AE/321/112	-	Nov. 7, '80	Cikampek
Panel Box Gen Set Stone Crusher	-	Bina Marga	-	-	Nov. 21, '80	Surabaya
Panel Box Gen Set Stone Crusher	-	Bina Marga	-	-	Nov. 21, '80	Surabaya
Back Hoe Exca- vation	INTERNA- TIONAL	Bina Marga	HEY/011/P45	-	Nov. 7, '80	Bekasi
Crawler Crane	P&H 550	Bina Marga	AM/231/001	40864	Nov. 19, '80	Palembang
Dump Truck	TXD 40	Bina Marga	AE/212/131	1683065	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/125	1682818	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/128	1682920	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/132	1683066	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/138	1682883	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/006	1681225	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/025	1681220	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/034	1681275	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/046	1681216	Oct. 13, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/098	1682926	Nov. 2, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/117	1682953	Nov. 2, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/133	1682930	Nov. 2, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/111	1682907	Nov. 2, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	AE/212/106	1682819	Nov. 2, '80	Cikampek
Water Tank Truck	H I N O KL340	Bina Marga	AE/182/005	KL340- 59124	Sep. 15, '80	Cikampek
Bull Dozer	Caterpillar D76	Bina Marga	AF/001/017	92V1251	Oct. 10, '80	Cikampek
Loader	FIAT ALLIS FA-605B	Bina Marga	AE/052/078	-	Nov., 1980	"
Loader	FIAT ALLIS FA-605B	Bina Marga	AE/052/079	-	Nov., 1980	-
Truck Loader	D 57 S	Bina Marga	AE/051/005	-	Nov., 1980	-
Tire Roller	SAKAI SAKTI TR-01	Bina Marga	11349	-	Nov., 1980	-

SECTION VI . . . . CONTRACTORVI. 2. . . . MANPOWER

The Engineer has requested manpower and quarterly reports; however, ICCI has not responded. The last manpower report submitted by ICCI was for the month of December, 1980.

SECTION VII . . . . STAGE I MAINTENANCEVII. . . . STAGE I MAINTENANCE

A meeting was held with P.P. Pluit Bataco Raya on February 4th to discuss continuation of the seal coat program. Representatives of US/AID, Jasa Marga, Bina Marga and the Engineer attended.

Pluit feels they can prepare emulsion to specifications and will have stock on hand soon for sampling and testing.

Pluit will provide a test section of slurry seal and fog seal, probably at the Taman Mini Toll Plaza.

Mr. Boros, Senior Bridge Engineer has been made maintenance inspection of existing bridges and will advise Jasa Marga on proper maintenance.

SECTION VIII . . . . PERSONNELVIII. . . . ENGINEER

The following Expatriate manmonth status includes manmonth approvals authorized thru Amendment No. 8. The estimated time required for completion is thru Stage II Supervision. Because of delays by ICCI in mobilizing, a completion date of June 1, 1983 has been assumed.

EXPATRIATE MAN-MONTH STATUS  
(Through Statement No. 66)

Position	1 Approved Through Dec., 1980	2 Additional Through Feb., 1981	3 Total Thru Feb., 1981 (1 + 2)	4 Estimated to Completion	5 Author'd MM	6 Balance (5-3-4)
PRINCIPAL	5.00	0	5.00	2.00	7.00	0
SPECIALIST	10.33	0.23	10.33	2.67	13.00	0
ENGR. IN CHARGE	83.32	2	85.32	28.00	102.50	(-) 10.82
SEN. MAINT. ENG.	7.97	0	7.97	0	10.00	+ 2.03
SEN. BR. ENG.	47.62	2	49.62	21.00	64.00	(-) 6.62
SEN. CONST/PAV'T ENGINEER	0	0	0	15.00	15.00	0
SEN. H-WAY ENG.	0	0	0	15.00	15.00	0
O T H E R S	<u>362.84</u>	<u>0</u>	<u>362.84</u>	<u>0</u>	<u>363.00</u>	<u>+ 0.16</u>
	517.08	4.00	521.08	83.67	589.50	(-) 15.25

Mr. Bambang Koeshartono, Bridge Technician resigned this month. Bina Marga will withdraw Mr. Pudji Lukitohadi, Counterpart Bridge Engineer at the end of February for a new assignment in Kalimantan.

Mr. Irkin was promoted to full time mechanic and a replacement driver, Abas was hired for the Senior Bridge Engineer.

SECTION VIII .... PERSONNELVIII. .... ENGINEER (Cont'd)

Local staffing during February follows :

BINA MARGA COUNTERPARTS

- |    |                      |   |
|----|----------------------|---|
| 1. | Mr. Hudaya           | Counterpart Sen. Construction/<br>Pavement Engineer,<br>July 1, 1980.     |
| 2. | Mr. Gono Sarpo       | Counterpart Sen. Materials<br>Engineers,<br>September 1, 1980.            |
| 3. | Mr. Saksono Harsono  | Counterpart Deputy Resident<br>Engineer (Quantities),<br>October 1, 1980. |
| 4. | Mr. Pudji Lukitohadi | Counterpart Sen. Bridge<br>Engineer,<br>October 1, 1980.                  |

FIELD PERSONNEL

- |     |                    |   |
|-----|--------------------|---|
| 5.  | Mr. Atang Suryana  | Party Chief (Archicons),<br>November 24, 1980.  |
| 6.  | Mr. Jenal          | Chainman,<br>September 8, 1980.                 |
| 7.  | Mr. Sarjono        | Instrumentman,<br>September 8, 1980.            |
| 8.  | Mr. Ato Toha       | Rodman,<br>September 8, 1980.                   |
| 9.  | Mr. Susilo Budi    | Lab Aide,<br>September 18, 1980.                |
| 10. | Mr. Agus Sujalmaji | Materials Aide,<br>October 1, 1980.             |
| 11. | Mr. Saman          | Lab Aide,<br>September 18, 1980.                |
| 12. | Mr. Adang Jauhari  | Lab Technician (Archicons),<br>October 6, 1980. |
| 13. | Mr. Siswoyo        | Lab Technician (Archicons),<br>October 4, 1980. |

14. ~~Mr. Joko Purnomo~~ ~~Sen. Materials Inspector.~~

SECTION VIII . . . . PERSONNELVIII. . . . ENGINEER (Cont'd)OFFICE TECHNICAL PERSONNEL

- |     |                     |  |
|-----|---------------------|--|
| 15. | Mr. Achmad Chudhori | Office Engineer<br>(Archicons),<br>September 2, 1980.  |
| 16. | Mr. Parmono         | Draftsman<br>(Archicons),<br>October 2, 1980.          |
| 17. | Mr. Johnny Manoch   | Highway Technician<br>(Archicons),<br>October 6, 1980. |

ADMINISTRATIVE PERSONNEL

- |     |                       |   |
|-----|-----------------------|---|
| 18. | Mr. Sukardi Wahyudi   | Administrative Manager,<br>July 1, 1980.    |
| 19. | Mr. John M. Golluwola | Secretary,<br>July 1, 1980.                 |
| 20. | Mrs. Onny Pratiwi     | Clerk/Typist,<br>July 1, 1980.              |
| 21. | Mrs. Herny Widodo     | Bookkeeper,<br>July 1, 1980.                |
| 22. | Mr. Suryoseputro      | Accountant,<br>July 1, 1980.                |
| 23. | Mr. Irkin             | Mechanic,<br>July 1, 1980.                  |
| 24. | Mr. Ujang bin Tarwi   | Office Janitor,<br>July 1, 1980.            |
| 25. | Mr. Enan Setiana      | Chief Security Guard,<br>October 1, 1980.   |
| 26. | Mr. Lily Sulaeman     | Security Guard,<br>July 1, 1980.            |
| 27. | Mr. Sa'i Hidayat      | Security Guard,<br>October 1, 1980.         |
| 28. | Mr. Kodrat Muhtadi    | Translator (Archicons),<br>October 1, 1980. |
| 29. | Mr. Sanan             | Gardener,<br>October 1, 1980.               |

SECTION VIII . . . . PERSONNELVIII. . . . ENGINEER (Cont'd)ADMINISTRATIVE PERSONNEL (Cont'd)

30.	Mr. Uken Sukendar	Driver, July 1, 1980.
31.	Mr. Djunaedi	Driver, November 12, 1980.
32.	Mr. Abas Basuni	Driver, February 1, 1981.

This month	.....	32
Previous	.....	<u>170</u>
T O T A L		202

Authorized Amendment No. 9  
thru February, 1981 ..... 282 m-m.

Additional Local Staff manmonths required for completion due to ICCI's lack of progress. Assumes completion on June 1, 1983 :

<u>M-M Expended</u>	<u>Additional Required to Complete</u>	<u>Total</u>	<u>Author'd M-M</u>	<u>Additional M-M Req'd</u>
202	1505	1707	1386	321

VEHICLES

Vehicles months expended thru February, 1981 ... 44  
Authorized vehicle months thru February, 1981 ... 76

SECTION IX

APPENDIX

SECTION IX . . . . APPENDIX

IX. 1. . . . INCOMING CORRESPONDENCE

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
1. Bina Marga	Loan of Highway Equipment.	Jan. 31, 1981
2. Bina Marga	Using Indonesian Rock Asphalt (Butas) for the Construction of Jagorawi Stage II.	Feb. 2, 1981
3. Bina Marga	Transmittal of the Approved Engineer's Rupiah Invoice No. 81/1981.	Feb. 3, 1981
4. ICCI	Meeting.	Feb. 3, 1981
5. TAE Manila	Invoice No. AW/TA 44-077 for Bina Marga Jagorawi Highway Basic Contract.	Feb. 9, 1981
6. Bina Marga	Sub-Contractor for Soil Borings.	Feb. 12, 1981
7. Bina Marga	1. Transmittal of the Approved Engineer's Rupiah Invoice No. 82/1980. 2. Engineer's Dollar Invoice No. 68.	Feb. 12, 1981
8. Archicons	Bridge Technician, Mr. Bambang Koeshartono.	Feb. 13, 1981
9. ICCI	Accessories Required.	Feb. 16, 1981
10. Bina Marga	Comment to Engineer's Rupiah Invoice No. 83/1981.	Feb. 19, 1981
11. Bina Marga	Butas Study Bandung's Lab. visit.	Feb. 19, 1981
12. Bina Marga	Withdrawal of Mr. Pudji Lukitohadi BE as Bina Marga Counterpart.	Feb. 24, 1981

SECTION IX .... APPENDIX

IX. 2. .... OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
1. JV-NYC	Weekly Administration Report No. 309.	Jan. 31, 1981
2. Mr. Irkin	Promotion.	Feb. 2, 1981
3. ICCI	Request for Meeting.	Feb. 2, 1981
4. ICCI	Site Plan for Engineer's Housing and Proposal Overlay of Existing Access Roads.	Feb. 4, 1981
5. ICCI	Test Results on Ciapus River sand from P.T. Borneo.	Feb. 4, 1981
6. Bina Marga	ICCI's Request to Sub-contract Soil Borings to GAMMA EPSILON, P.T., of Bandung.	Feb. 4, 1981
7. Bina Marga	Transmittal of Contractor's Equipment and Manpower Report for November, 1980.	Feb. 4, 1981
8. JV-NYC	Weekly Administration Report No. 310.	Feb. 7, 1981
9. ICCI	Additional Information for Start of Structural Work.	Feb. 11, 1981
10. Bina Marga	Submittal of Engineer's Dollar Invoice No. 69 for the Month of January.	Feb. 12, 1981
11. Bina Marga	Transmittal of Engineer's Rupiah Invoice No. 83 for the Month of January.	Feb. 12, 1981
12. Bina Marga	Rock Asphalt Study.	Feb. 13, 1981
13. ICCI	Structural Work.	Feb. 13, 1981
14. ICCI	Bina Marga-owned Equipment.	Feb. 14, 1981
15. ICCI	Overhead and Profit Rate.	Feb. 14, 1981
16. JV-NYC	Weekly Administration Report No. 311.	Feb. 16, 1981
17. ICCI	Approval of GAMMA EPSILON, P.T., for Foundation Borings.	Feb. 16, 1981
18. JV-NYC	Use of Butas Rock Asphalt.	Feb. 16, 1981
19. Bina Marga	Minutes of the Project Meeting of February 5, 1981 with ICCI.	Feb. 17, 1981

SECTION IX .... APPENDIX

IX. 2. .... OUTGOING CORRESPONDENCE (Cont'd)

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
20. Bina Marga	Extension of US/AID Letter of Commitment for Engineering Services.	Feb. 17, 1981
21. JV-NYC	Transmittal of Approved Dollar Invoice No. 68, for December.	Feb. 18, 1981
22. Bina Marga	Submittal of Draft Contract Change Order No. 5, Civil Works for the Engineer's Compound and Pavement Overlay.	Feb. 18, 1981
23. Archicons	Archicons' Letter dated February 13, 1981.	Feb. 18, 1981
24. Mr. Hudaya/ Mr. Gono	Field Trip to Bandung.	Feb. 19, 1981
25. Bina Marga	Acquisition of Laboratory Equipment and Concrete Batching.	Feb. 20, 1981
26. Bina Marga	Handover of Calculators.	Feb. 21, 1981
27. Archicons	Recommendation for Raises, Archicons Employees on Jagorawi.	Feb. 21, 1981
28. Bina Marga	Per Diem for Local Travel.	Feb. 21, 1981
29. JV-NYC	Weekly Administration Report No. 312.	Feb. 21, 1981
30. Mr. Gono	Request Consolidation Testing.	Feb. 23, 1981
31. Mr. Abidin	Structure Inspection Jagorawi.	Feb. 24, 1981
32. Bina Marga	Night Security Lights for Guards.	Feb. 25, 1981
33. Bina Marga	Reimbursement for Archicons Employees.	Feb. 26, 1981
34. JV-NYC	Transmittal of Rupiah Accounting Reports for January -- Jagorawi Highway Project.	Feb. 27, 1981
35. Bina Marga	Submittal of Engineer's Monthly Report No. 81.	Feb. 27, 1981
36. Ekaputera PT	Lab Equipment Quotations.	Feb. 28, 1981
37. Sardo, CV	Lab Equipment Quotations.	Feb. 28, 1981
38. Bina Marga	Equipment Costs of Government-owned Equipment.	Feb. 28, 1981

SECTION IX . . . . . APPENDIX

IX. 3. . . . . STATUS OF DOLLAR FUNDS FOR ENGINEERING  
SUPERVISION OF STAGE II CONSTRUCTION

I. ENGINEER'S CONTRACT (Excluding bank charges)

A) ORIGINAL CONTRACT . . . . .	\$ 1,594,084.00
B) AMENDMENT NO. 1 . . . . .	\$ 259,169.00
C) AMENDMENT NO. 2 . . . . .	\$ 288,244.00
D) AMENDMENT NO. 3 . . . . .	\$ 824,702.00
E) AMENDMENT NO. 4 . . . . .	\$ 110,058.00
F) AMENDMENT NO. 5 . . . . .	\$ 0
G) AMENDMENT NO. 6 (STAGE II DESIGN) . . . . .	\$ 234,051.00
H) AMENDMENT NO. 7 . . . . .	\$ 79,677.00
I) AMENDMENT NO. 8 . . . . .	\$ 597,341.00
<hr/>	
T O T A L . . . . .	\$ 3,987,326.00
Funds Available for Contract Services . . . . .	\$ 3,979,538.29
<hr/>	
S H O R T . . . . . (-)	\$ 7,787.71

Note : The Engineer's letter of credit was increased  
by \$ 667,745.55 on November 14, 1980.

II. RUPIAH CONSTRUCTION CONTRACT

A contract has not been signed or approved. Amount of the contract is Rp 8,089,614,228. Bina Marga reports that Sekneg has returned the proposal without approval and has required further cost negotiations.