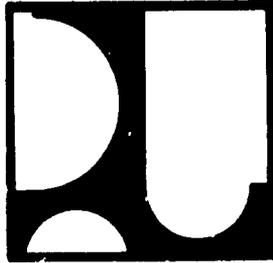


PDAM 370

ISN - 1590

REPUBLIK INDONESIA

**DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA**



JAGORAWI HIGHWAY STAGE II

**MONTHLY REPORT
SUPERVISION**

JULY 1982

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

CONSULTING ENGINEERING

REPORT NO. 99

July 1982

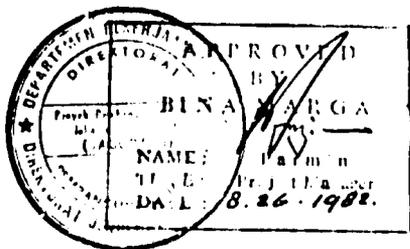
JAGORAWI HIGHWAY PROJECT
CONSULTING SUPERVISION SERVICES



Submitted by :

Larry G. Buntten

LARRY G. BUNTEN
Engineer in Charge

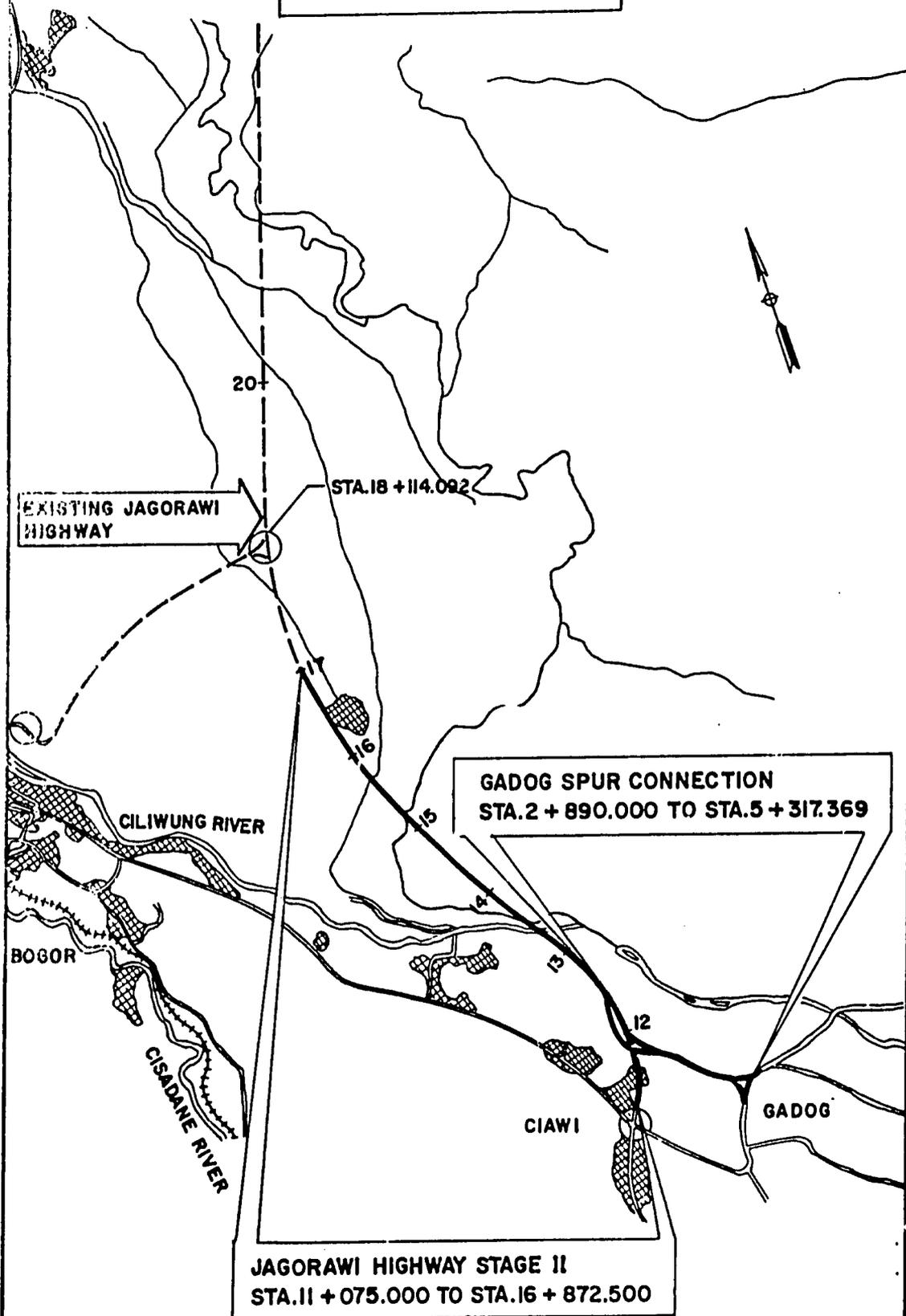


Prepared by :

AMMANN & WHITNEY/TRANS-ASIA
ENGINEERING ASSOCIATES, INC.,
A Joint Venture

P.O. Box 44 Bogor
Indonesia

**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

**JAGORAWI HIGHWAY STAGE II
STA.11 + 075.000 TO STA.16 + 872.500**

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SECTION I NARRATIVE SUMMARY

I. 1. STAGE II CONSTRUCTION

Because of the Lebaran Holidays, little work was accomplished. The Contractor did, however, complete the Engineer's housing and office extension.

- 1) Bridge excavation at Station 13 plus forming and placing rebar at Bridge Station 11 progressed during this report period.
- 2) Concrete batch plant erection and calibration of weigh scales continued in preparation for performance tests.

Weather has been excellent with only 4 days lost due to rain during the last two months. However, progress continues to slip badly. **Progress stands at 12.24 percent complete vs 67.55 percent scheduled.**

The Engineer at the request of Bina Marga, has prepared a cost savings report that will reduce the Jagorawi Project scope of work and construction costs. Under the reduced scope of work, it appears that Jasa Marga will have sufficient funds to complete the Project.

During a meeting, ICCI's upper management informed the Engineer that under ICCI's present organization, they could not complete the work unless the work is either assigned or sub-contracted in its entirety to one or two Consortium Member Companies. The Engineer agrees with this assessment.

I. 2. MAINTENANCE

Emulsion to be supplied by Scan-Roads for the fog seal test section did not arrive during this report period.

SECTION II PROBLEM AREAS

II. As suggested by the Engineer, the reduced scope of work will apparently meet the budget as proposed by Jasa Marga. It has been reported that financing will be available early in September.

The Engineer recommends reorganization on the part of the Contractor before these funds are committed.

SECTION III ADMINISTRATION

III. 1. SUBMITTALS/APPROVALS

The Engineer's Rupiah Invoices No. 100 and No. 101 (finance charges) and Dollar Invoice No. 88 for June were submitted. Dollar Invoice No. 88 has been approved and an advance provided for Invoice No. 100.

The Contractor submitted an invoice (No. 10) for the period January 26th thru July 25th. Amount is Rp 33,686,288.

The Contractor also submitted original receipts for some reinforcing steel previously invoiced under materials on hand. The Engineer then certified Contractor Invoices No. 8 and No. 9 (after deduction of reinforcing steel which has not been paid for) and submitted the invoices to Bina Marga for approval.

The Engineer's Amendments No. 10 and No. 11 have been signed and submitted to Bina Marga for approval.

As requested, the Engineer submitted a cost savings report for Jagorawi. The report is under study.

The Engineer also submitted an evaluation report on the affects of truck overloads on existing bridges.

III. 2. DECISIONS

Most of the costs savings proposed by the Engineer in his cost savings report have been agreed to by Bina Marga. Major cost savings to be implemented follow :

- a) delete Bridge 11.
- b) revise Gadog Intersection to a simple tee.
- c) revise bridge superstructures to a structural steel I-girder design.
- d) delete prime coat and shoulder chip seal.
- e) delete overlay of Engineer's access road.

SECTION III ADMINISTRATION

III. 3. MAJOR CONFERENCES

The Engineer's cost savings report proposal was discussed in several meetings.

The proposal was agreed to in principle during a meeting (July 5th) with Mr. Moelia, Mr. Parmin, and Mr. Hadi. Two follow-up meetings were held with Mr. Parmin, Mr. Hadi and representatives of BIPRAN (July 6th and 29th). In the meeting of July 29th with BIPRAN, it was agreed to accept the Engineer's recommendations except for revised median treatment (the planned concrete median barrier is to be retained). At the request of Mr. Wiyoto, the meeting was minuted for the record. See copy of EIC's letter dated July 30, 1982 at the end of this section of the report.

Mr. Setyohadi, Vice President of ICCI and Mr. Satia, Director of ICCI met with the EIC and Mr. Caldwell on July 13th. Some of the problems affecting ICCI were discussed. Mr. Setyohadi stated that the Government might be better placed to support existing contractors, rather than serve as the contractor themselves. The Engineer expressed his concern as to whether ICCI could finish Jagorawi under the present organizational set up. The Engineer recommended that the project be entirely assigned to established Consortium member companies such as Hutama Karya who has already mobilized a crusher and concrete batching plant at Sentul Quarry.

ICCI felt this was the best solution and it was later agreed (by phone discussion) that ICCI would propose this reorganization to Bina Marga.

III. 4. OFFICIAL VISITORS

Mr. E. A. Evanson, President of Trans-Asia Engineering Associates, Inc. visited the project during the month.

SECTION III ADMINISTRATION

III. 5. FINANCIAL OVERRUNS/UNDERRUNS

Project guarantees provided by ICCI have expired and ICCI has advised Bina Marga that they will not extend the guarantees until the Project has been funded. About Rp 1.7 billion in guarantees are required by contract and are now in default. ICCI presently has unsecured debits of Rp 735,093,897 for advanced payments outstanding and we estimate about Rp 290,000,000 owed to Bina Marga's equipment section for equipment rental. ICCI has admittedly not paid some materials suppliers and subcontractors.

Because of ICCI's default in providing guarantees, the Engineer suggests that Bina Marga request a financial statement so they can determine the solvency of this company.

The Contractor submitted original receipts for bar reinforcing steel which indicate that a portion of the material has been paid for. Unsubstantiated reinforcing steel on hand was deducted from invoices by the Engineer and the Contractor's December 1981 and January 1982 invoices were then certified by the Engineer and forwarded to Bina Marga.

Following is a summary of invoicing by the Contractor vs payments provided by Bina Marga.

<u>Invoice No.</u>	<u>Period</u>	<u>Amount of Invoice</u>	<u>Amount Paid by Bina Marga</u>	<u>Reported by Contractor</u>
1	Advance 1981	1,207,500,000	800,000,000	0
2	Thru June	83,119,176	89,119,176	216,283,000
3	J u l y	90,792,037	0	69,510,000
4	A u g u s t	3,400,241	3,400,241	16,511,000
5	September	71,894,479	0	49,430,000
6	October	291,967,260	0	243,154,065
7	November	168,368,956	0	213,205,701
8	December	7,361,561	0	56,688,719
9	January 1982	18,217,765	0	34,732,653
-	February	0	0	0
-	M a r c h	0	0	0
-	A p r i l	0	0	0
-	M a y	0	0	0
-	J u n e	0	0	0
-	February thru July	<u>33,686,288</u>	<u>0</u>	<u>51,750,962</u>
		<u>1,982,307,763</u>	<u>892,519,417</u>	<u>951,266,100</u>

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

Please reply to : P.O. Box 44/Bogor
Indonesia
Phone: 0251 - 25098

July 30, 1982
Ref. No. : 1139/G-155/BM

To : Mr. Parmin BRE
Project Manager, Jagorawi

Subject : Report of Meeting

A meeting was held at Bina Marga's Pattimura Office on July 29th to discuss cost-saving design changes for Jagorawi Stage II. Attending :

Mr. Wiyoto	BIPRAN
Mr. Wiharso	BIPRAN
Mr. Bhoedjono	BIPRAN
Mr. Hadi	Bina Marga Construction
Mr. Parmin	Project Manager, Jagorawi
Mr. Buntan	Engineer in Charge

Cost saving proposals submitted by the Engineer were approved as follows :

- 1) Delete prime coat for aggregate base.
- 2) Delete shoulder chip seal and replace with emulsion fog seal.
- 3) Revise Gadog Intersection to a simple "tee" design.
- 4) Delete Bridge 11 - provide two overhead signs to facilitate safe vehicle weaving action. Sign costs was estimated at about Rp 30 million.
- 5) Substitute structural plate pipes for planned RCB at Station 3+010 and 3+900.

6) Design revision of

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A JOINT VENTURE

July 30, 1982
Ref. No. : 1139/G-155/BM |
Page : 2

- 6) Design revision of bridges from prestressed concrete I-girder to a structural steel design was also approved in principle. However, there was a question as to who will do the redesign. BIPRAN will check and advise later.

It was decided that the suggested revised median treatment employing chain link fence/cable barrier may not be safe. BIPRAN requested that the planned concrete median barrier be retained.

It was further decided that the estimated Rp 360 million expense to increase ATB thickness due to overloaded truck was not warranted. Bina Marga will request Jasa Marga to control truck axle loads instead.

Bina Marga also suggested that a weak concrete cover be placed on exposed H-piles in lieu of tar.

The Engineer stated that Bina Marga should issue a detailed letter of instruction soon as the Contractor is presently working on Bridge 11.

Very truly yours,


LARRY G. BUNTIN
Engineer in Charge

LGB/jmg

cc : Director of Construction.
Joint Venture - N.Y.C.
Trans-Asia - Jakarta.
Mr. Wiyoto.
Mr. Hadi.
Sen. Bridge Engineer.
Sen. Const/Pav. Engr.
Mr. Akhmad.

SECTION IV ENGINEERING PROGRESS

IV. Office and bridge staff were involved with preparation of the cost saving report, revised quantity calculation, etc. The minor amount of bridge work in progress involved our bridge and survey sections. Efforts to calibrate the concrete batch plant were monitored by the Engineer.

SECTION V PROGRESS

V. 1. PROGRESS

The Contractor took a long vacation for the Lebaran Holiday. One pier work floor was completed and the Engineer's office and housing were completed. We estimate about Rp 4,000,000 for the value of this work or about 0.05 percent progress achieved during the month.

V. 2. RAINFALL

Only two working days were lost due to rain. Total rainfall was far less than average. It is unfortunate that the Contractor is not progressing the work during this excellent weather.

RAINFALL DURING JULY

	<u>July</u>	<u>Ave. for Project Location</u>
-- No. rain days	14	10.2
-- Max. rain in 24 hours	23.0	-
-- Total rainfall during the month	79.5 mm	177.5 mm
-- Lost working days due to rain	2	-
-- Accumulative lost working days	135	-

V. 3. PROGRESS VS SCHEDULE

Progress stands at 12.24 percent complete vs 67.55 percent scheduled. Scheduled progress for July was 9.27 percent, so the slippage was $9.27 - 0.05 = 9.22$ percent. The Contractor is about 12 months behind schedule.

SECTION VI CONTRACTOR

VII. 1. CONSTRUCTION ACTIVITIES

a) Office & Housing

The Engineer's office extension and two housing units were completed. Some deficiencies exist and a detailed list of deficiencies have been given to the Contractor as specified under the one-year maintenance guarantee provisions of the Contract.

Excavation for RCPs at the Engineer's access road was in progress. Workman reported to our staff that they were being employed by an (unauthorized) subcontractor. They further stated that the subcontractor had not been paid by ICCI and the workmen have since abandoned this work.

b) Bridges

Forms and reinforcing steel have been installed for pile caps and partial piers at piers No. 2, 3 and 4 at Bridge Station 11.

Excavation for pier 3 at Bridge Station 13 continues with hand-labor breaking boulders (see photos).

c) Concrete Batch Plant

A concrete work table for aggregate storage at the aggregate gate feeds has been placed. Efforts on the part of the Contractor to repair and calibrate weigh scales continued all month with little effect.

VII. 2. EQUIPMENT

A listing of equipment on site follows.

APPROVED EQUIPMENT LIST

EQUIPMENT MOBILIZED THRU JULY 1982

No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	N A M E	R E M A R K S
1	Bull Dozer	1	320 HP	Komatsu D-155	1	Komatsu D-155	Bina Marga
2	Bull Dozer	2	220 HP	Komatsu D-85	2	Cat-D7G	Bina Marga
3	Bull Dozer	3	140 HP	Komatsu D-65	1	Komatsu D-53-A	Bina Marga
4	Track Loader	2	1.6 cu.m.	Komatsu D-75-S	-	---	---
5	Motor Grader	3	---	Komatsu GD-600-R	3	Komatsu GD-600-R	Bina Marga
6	Wheel Loader	6	1.6 cu. .	Fiat Allis	1	Fiat Allis 605-B	Bina Marga
7	Dump Truck	50	5 tons	Isuzu TX-40	22	Isuzu TX-40	Bina Marga
8	Dump Truck	-	---	---	2	Isuzu TLD-54 (3 tons)	Bina Marga
9	Sheep Foot Roller	2	17 tons	Caterpillar 815	1	Cat-815	Bina Marga (ret'd 3 June)
10	Vibratory Roller	2	9 tons	SP-42, SP-54 (Rex)	1	Ca 25-PD	PT ICCI
11	Tandem Roller	3	12 tons	S a k a i	-	---	---
12	Rubber Tired Roller	2	8-12 tons	Sakai/Tanaka	-	---	---
13	Water Tank Truck	3	4,000 lt.	Hino, Toyota	-	---	---
14	T r a i l e r	2	30 tons	I s u z u	-	---	---
15	Back Hoe	2	0.6 cu.m.	Intr. Junbo/Pool	1	Poclain-90 (0.8 cu.m)	Pusbinal (arv'd 3 June)
16	Back Hoe	1	1.6 cu.m.	Intr. Junbo/Pool	-	---	---
17	Farm Tractor	2	---	K o m a t s u	-	---	---
18	Crusher & Screening Plant	1	100 ton/hr.	K o b e	-	---	Hutama Karya plant erected. Agreement to subcontract. Pending.
19	Crusher & Screening Plant	2	30 ton/hr.	K a n g W o n	2	K a n g W o n	(Bina Marga (incl'd. Gen. Sets)
20	Sand Washer	2	---	S a k a i	-	---	---
21	Water Pump	10	ø 4"	Y a m a r	9	3 ea Tsurumi ø 4" KTV-37L 1 ea Alcon ø 2" 1 ea Kawamoto ø 3" 4 ea Yanmar TS-80 ø 4"	PT ICCI PT ICCI PT ICCI PT ICCI

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APPROVED EQUIPMENT LIST					EQUIPMENT MOBILIZED THRU JULY 1982		
No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	N A M E	R E M A R K S
22.	Generator, Set	2	90 KVA	Mercedesz	-	-	-
23.	Generator, Set	1	50 KVA	Mercedesz	1	Perkins	PT ICCI
24.	Generator, Set	3	10 KVA	K u b o t a	3	Yanmar, 7.5 KVA (2) Stamford 3152, 25 KVA	PT ICCI
25.	Asphalt Mixing Plant	1	90 ton/hr	S i m e s s e	-	-	-
26.	Asphalt Finisher	2	60-100 ton/hr	Allat C-300	-	-	-
27.	Asphalt Hand Sprayer	2	500 liters	L o c a l	-	-	-
28.	Asphalt Distributor	1	4,000 liters	M a r i n i	-	-	-
29.	Pavement Breaker	6	23/64 liters	BR-20-Ingersoll Rand	3	TPB-60	ICCI (1 ea borrowed by ICCI's High Rise project on April 30th).
30.	Pavement Saw	1	80 m/sec.	W a c k e r	-	-	-
31.	Road Marking Machine	1	-	M a r i n i	-	-	-
32.	Aggregate Drier	2	45 tons	Sakai / Tanaka	-	-	-
33.	Power Broom	1	20 HP	M i t s u b i s h i	-	-	-
34.	Chips Spreader	1	-	E t n i r e	-	-	-
35.	C o m p r e s s o r	2	600 cfm	Broomwade	1	Broomwade - Stamford STV-25, 250 cfm	PT ICCI
36.	Mechanical Hand S t a m p e r	10	-	TV-808	2	Mikasa MTR-120	PT ICCI
37.	Spreader Box	1	-	E t n i r e	-	-	-
38.	Aggregate Cold Bins	4	5 cu.m.	L o c a l	-	-	-
39.	Forklift	1	3.5 tons	Komatsu	1	TCM-VD-30	ICCI (borrowed by ICCI's High Rise project on February 2pth).
40.	Truck Crane	2	40 tons	P & H Linkbelt	-	-	-
41.	Crawler Crane	2	75 tons	P & H 550	2	P & H 550 (50 tons) LS-78 J (20 tons)	Bina Marga Bina Marga
42.	Tire Crane	2	10 tons	Halla	-	-	-

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APPROVED EQUIPMENT LIST

EQUIPMENT MOBILIZED THRU JULY 1982

No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	N A M E	R E M A R K S
43.	Diesel Hammer	2	7 ton/80 HP	—	—	—	—
44.	Pile Hammer	1	1200-1500 mkg	P & H Linkbelt	—	—	—
45.	Pile Hammer	1	3000-3500 mkg	P & H Linkbelt	—	—	—
46.	Batching Plant	1	35 cu.m./hr	Lambert	—	—	Being erected at Sentul, Hutama Karya. Agreement to subcontract pending.
47.	Concrete Transit Mixer	4	5 cu.m.	Isuzu	—	—	—
48.	Concrete Mixer	1	750 liters	Winget	3	1 ea Golden Star, 3/4 cu.m. 1 ea Hercules, 0.3 cu.m. 1 ea Golden Star, 0.45 cu.m.	PT ICCI PT ICCI PT ICCI
49.	Concrete Bucket	2	500 liters	—	—	—	—
50.	Concrete Buggies	10	50 liters	—	—	—	—
51.	Concrete Internal Vibrator	14	Ø 3"	M i k a s a	2	M i k a s a	PT ICCI
52.	Concrete Internal Vibrator	12	Ø 1½"	M i k a s a	2	M i k a s a	PT ICCI
53.	J e e p	7	—	Daihatsu Taft	4	Daihatsu Taft	ICCI (3 ea used by ICCI's Head Office, Jakarta).
54.	Pick Up	1	—	Chevrolet Luv	1	Chevrolet Luv	PT ICCI
55.	Mini Bus	1	—	Toyota Hi Ace	1	Toyota Hi Ace	PT ICCI
56.	Sedan	1	—	Toyota Corolla	—	—	—
57.	Motor Cycle	11	—	Honda CB-100	3	Honda CB-100KS	PT ICCI
58.	Winch	1	2T	Ingersoll-Rand K5UL	—	—	—

APPROVED EQUIPMENT LIST					EQUIPMENT MOBILIZED THRU JULY 1982		
No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	N A M E	R E M A R K S
<u>SURVEY EQUIPMENT</u>							
59.	Level pl. Supp. Equipm.	3	---	N i k k o n	2	N i k k o n	PT ICCI
60.	Transit pl. Supp. Equip	2	---	Nikkon & Wild	2	W i l d	PT ICCI
<u>PRECASTING EQUIPMENT</u>							
61.	RCP Form Ø 60 cm	10	---	Local	10	Local	PT ICCI
62.	RCP Form Ø 80 cm	5	---	Local	5	Local	PT ICCI
63.	RCP Form Ø 120 cm	1	---	Local	1	Local	PT ICCI
64.	Ext. Conc. Vibrator	4	---	Wacker Arex 055	9	3 ea Mikasa 1.5 HP 6 ea Wacker 6.9 KVA	PT ICCI PT ICCI
65.	PCP Form Ø 20 cm	50	---	Local	51	Made in Bogor	PT ICCI
66.	Truck Crane	1	3 tons	Tadano	-	---	---
67.	Prest. Unit Equipment	1	200 tons	---	-	---	---
68.	Generator, Set	1	300 KVA	Mercedesz	-	---	---
<u>WORKSHOP ACCESSORIES</u>							
69.	Welding Machine	2	250-400A	Lincoln	2	Miller	PT ICCI
70.	Grinder	2	---	Black & Decker	4	Denyo	PT ICCI
71.	Drill	1	---	Black & Decker	1	Mitsubishi	PT ICCI
72.	Bar Cutter	1	---	Black & Decker	2	H i t a c h i	PT ICCI
73.	Jack	2	25 tons	Black & Decker	2	Kubota	PT ICCI
74.	Fuel Tank	2	10,000 tons	Local	3	German	PT ICCI
75.	Compressor	1	200 cfm	Honda	-	2-ton Black & Decker	PT ICCI
76.	Generator, Set	1	150 KVA	Mercedesz	1	5-ton Black & Decker	PT ICCI
77.	Service Car	2	---	Mitsubishi	-	1 ea Local (8000 lt.)	PT ICCI
78.	Torch	2	---	---	1	2 ea Local (10000 lt.)	PT ICCI
79.	---	-	---	---	10	---	---
80.	Batching Plant	-	---	---	2	Peter (12.5 KVA)	Bina Marga
81.	Welding Transformer	-	---	---	1	---	---
						Philips Hall. lights	PT ICCI
						Viking DBW14 (700 kg)	PT ICCI
						Bergin, 300 Amp.	PT ICCI (borrowed by ICCI's High Rise project on April 30th).

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SECTION VI CONTRACTOR

VII. 3. PERSONNEL

A listing of Contractor personnel for July follows.

MONTHLY PERSONNEL REPORT

July 1982

NO	POSITION	MANAGER LEVEL	TECHNICAL STAFF						ADMINISTRATION & COST ACCOUNTING					TOTAL
			CIVIL	MECHANIC	ELECTRIC	OPERATOR	DRIVER	LABOR	BOOK KEEP	ASS ADM	TYPIST	OFF DRIVER	HELPER	
1.	<u>PROJECT MANAGER</u>	1	1	-	-	-	-	-	-	-	-	1	-	3
2.	<u>OFFICE ENGINEER</u>													
	2.1. Office Engineer	-	-	-	-	-	-	-	-	-	-	-	-	-
	2.2. Design & Planning Engineer	1	3	-	-	-	-	-	-	-	1	5	10	
	2.3. Cost Engineer	1	1	-	-	-	-	-	-	-	-	-	2	
	2.4. Contract Adm	-	1	-	-	-	-	-	-	-	-	-	1	
	2.5. Surveying & Progress Report ,	1	-	-	-	-	5	-	1	-	-	-	7	
3.	<u>FIELD ENGINEER :</u>													
	3.1. General Supt	1	2	-	-	-	-	-	-	-	-	-	3	
	3.2. Superintendent For Road Const	-	-	-	-	-	-	-	-	-	-	-	-	
	3.3. Superintendent For Bridge Const	1	7	5	1	4	1	-	3	-	-	5	27	
	3.4. Superintendent For Drain Const	-	-	-	-	-	-	-	-	-	-	-	-	
	3.5. Superintendent For Equipment	2	1	2	-	-	-	-	-	-	-	2	7	
	<u>SUB TOTAL</u>	8	16	7	1	4	-	6	-	4	-	2	12	60

REMARK :

MONTHLY PERSONNEL REPORT

July 1982.-

NO	POSITION	MANAGER LEVEL	TECHNICAL STAFF						ADMINISTRATION & COST ACCOUNTING					TOTAL
			CIVIL	MECHANIC	ELECTRIC	OPERATOR	DRIVER	LABOR	BOOK KEEPER	ASS ADM	TYPIST	OFF DRIVER	HELPER	
	Sub Total :	8	16	7	1	4	-	6	-	4	-	2	12	60
4.	<u>PROCUREMENT & LOGIS- TIC :</u>													
	4.1. Procurement & Supply Manager	1	-	-	-	-	-	-	-	-	-	-	-	1
	4.2. Procurement & Purchasing	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.3. Storage & Supply	-	3	-	-	-	-	-	-	1	-	-	-	4
	4.4. Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-
5.	<u>ADMINISTRATION :</u>													
	5.1. Manager of Adm	1	-	-	-	-	-	-	-	-	-	-	-	1
	5.2. General Affairs	-	1	-	-	-	-	-	-	2	1	1	9	14
	5.3. Cost Accounting	-	1	-	-	-	-	-	1	-	-	-	-	2
6.	<u>OTHERS :</u>													
	6.1. Labor Supplier	-	-	-	-	-	-	-	-	-	-	-	-	-
	6.2. On The Job training	-	-	-	-	7	4	-	-	-	-	-	-	11
	6.3. Operator from PU(PUSBINAL)	-	-	-	-	1	-	-	-	-	-	-	-	1
	T o t a l	10	21	7	1	12	4	6	1	7	1	2	21	94

REMARK :

S e y : NINETY FOUR PERSON .. ✓

APPROVED BY :

[Signature]
 I. HUSODO SUHARTO
 PROJECT MANAGER

CHECKED BY :

[Signature]
 DRS. JULIUS

PREPARED BY :

[Signature]
 BAMBANG SINGGIM

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SECTION VII MAINTENANCE

VII. The emulsion for the test section to be supplied by Sca|h-Roads did not arrive during the month. A meeting was held with representatives of Jasa Marga, the Engineer and P.T. Buantan Trading Co. P.T. Buantan Trading stated they could import specification emulsion. A sample will be submitted for testing.

The Engineer issued an evaluation report on effects of truck overloads on bridges. Gist of the report - three long-bed trucks on a single span will result in damage to prestressed members.

SECTION VIII PERSONNEL

VIII. 1. ENGINEER

Mr. E. A. Evanson, President of Trans-Asia Engineering Associates, Inc. visited Indonesia during the month. Mr. Evanson met with representatives of Bina Marga and Jasa Marga during his stay.

EXPATRIATE MANMONTH STATUS
(Through Statement No. 89)

<u>Position</u>	(1) <u>M-M Thru July '82</u>	(2) <u>M-M Approved by Contract</u>	(3) <u>M-M per COO 10 Pending</u>	(4) <u>Total App'd M-M (2+3)</u>	(5) <u>M-M Remaining (4-1)</u>	(6) <u>Date Complete</u>
PRINCIPAL	6.47	7.00	0	7.00	0.53	-
SPECIALIST	10.43	13.00	(-) 2.60	10.40	(-)0.03	-
ENGINEER IN CHARGE	105.15	102.50	+ 8.30	110.80	5.65	Dec. 31, '82
SEN. BRIDGE ENGINEER	66.34	64.00	+ 6.10	70.10	3.76	Nov. 21, '82
SEN. CONST/ PAV'T ENGR.	10.76	15.00	+ 0.30	15.30	4.54	Dec. 9, '82
SEN. H-WAY ENGINEER	4.34	15.00	(-)10.70	4.30	0.16	Dec. 26, '81
O T H E R S	370.81	373.00	(-) 2.20	370.80	0.01	-
	<u>571.21</u>	<u>589.50</u>	<u>(-) 0.80</u>	<u>588.70</u>	<u>14.62</u>	<u>-</u>

Note : Manmonths shown are contained in Amendment No. 10 pending and have been approved in principle by Bina Marga.

SECTION VIII ... PERSONNEL

VIII. 2. INDONESIAN PERSONNEL

There was no change in the Engineer's staffing this month.

BINA MARGA COUNTERPARTS

- | | | |
|----|------------------|--|
| 1. | Mr. Hadi Suwahyo | Counterpart Sen. Construction/
Paving Engineer. |
| 2. | Mr. Gono Sarpo | Counterpart Senior Materials
Engineer. |
| | ---- | Counterpart Deputy Resident
Engineer. |
| | ---- | Counterpart Sen. Bridge Engr. |

FIELD PERSONNEL

- | | | |
|-----|-------------------|--|
| 3. | Mr. Atang Suryana | Party Chief (Archicons),
November 24, 1980. |
| 4. | Mr. Jenal Mamad | Chainman, September 8, 1980. |
| 5. | Mr. Sarji Sarjono | Instrumentman, Sept. 8, 1980. |
| 6. | Mr. Ato Toha | Rodman, September 8, 1980. |
| 7. | Mr. Susilo Budi | Lab Aide, September 18, 1980. |
| 8. | Mr. S a m a n | Lab Aide, October 1, 1980. |
| 9. | Mr. Joko Purnomo | Senior Materials Inspector
(Archicons), July 1, 1980. |
| 10. | Mr. Joko Sartono | Bridge Inspector (Archicons),
July 16, 1981. |
| 11. | Mr. Dones | Bridge Technician (Archicons),
September 1, 1981. |
| 12. | Mr. Luthfie Ali | Bridge Technician (Archicons),
April 30, 1982. |
| 13. | Mr. Mochtar Dadan | Materials Aide, May 17, 1982. |

OFFICE TECHNICAL PERSONNEL

- | | | |
|-----|--------------------|--|
| 14. | Mr. Akhmad Khudori | Office Engineer (Archicons),
September 2, 1980. |
| 15. | Mr. Parmono | Draftsman (Archicons),
October 2, 1980. |
| 16. | Mrs. Widiyaningsih | Highway Technician,
June 8, 1981. |

SECTION VIII ... PERSONNEL

VIII. 2. INDONESIAN PERSONNEL (Cont'd)

ADMINISTRATIVE PERSONNEL

17.	Mr. Sukardi Wahyudi	Administrative Manager, July 1, 1980.
18.	Mr. John Golluwola	Secretary, July 1, 1980.
19.	Mrs. Onny Pratiwi	Clerk/Typist, July 1, 1980.
20.	Mrs. Herny Widodo	Bookkeeper, July 1, 1980.
21.	Mr. Suryoseputro	Accountant, July 1, 1980.
22.	Mr. Irkin	Mechanic, July 1, 1980.
23.	Mr. Ujang bin Tawi	Office Janitor, July 1, 1980.
24.	Mr. Lily Sulaeman	Security Guard, July 1, 1980.
25.	Mr. Ismail	Security Guard, July 1, 1980.
26.	Mr. Enan Setiana	Chief Security Guard, October 1, 1980.
27.	Mr. Sa'i Hidayat	Security Guard, October 1, 1980.
28.	Mr. Sanan	Gardener, October 13, 1980.
29.	Mr. Ayi Sukardi	Driver, July 24, 1981.
30.	Mr. Didi	Driver, August 20, 1981.
31.	Mr. Ido Suhada	Driver, September 1, 1981.

This month	31
Previous	<u>783</u>
T o t a l	814
Authorized Amendment No. 11* thru June 1982	859

VEHICLE MONTHS

Expended thru July 1982	200
Authorized by Amendment No. 11*	206

*Amendment No. 11 pending has been approved
in principle by Bina Marga.

SECTION IX

CONSTRUCTION PHOTOS



Structure excavation for RCPs
at Engineer's housing compound



Boulders split by hand



Bridge excavation
Bridge Station 13

SECTION X APPENDIX

X. 1. . . . INCOMING CORRESPONDENCE

<u>No.</u>	<u>FROM</u>	<u>SUBJECT</u>	<u>D A T E</u>
1.	PT ICCI	Hand Over.	July 1, 1982
2.	PT ICCI	Daily Extra Work Report Form.	July 1, 1982
3.	PT ICCI	reference points.	July 1, 1982
4.	PT ICCI	Electrical tests of Engineer's Office and Housing.	July 5, 1982
5.	Bina Marga	Travel for Mr. Edward A. Evanson.	July 6, 1982
6.	Archicons	Invoice of June 1982.	July 6, 1982
7.	Bina Marga	"Levies" from Bank Dagang Negara.	July 7, 1982
8.	Bina Marga	Government coaching and testing program.	July 10, 1982
9.	Bina Marga	Bank Guarantee.	July 13, 1982
10.	PT ICCI	Monthly Personnel Report.	July 16, 1982
11.	PT ICCI	Samples of Aggregate and Sand for Concrete.	July 16, 1982
12.	PT ICCI	Proof test of all electrical system.	July 16, 1982
13.	T ICCI	Engineer's letter No. 1108/G-135/ICCI dated July 2, 1982.	July 16, 1982
14.	Bina Marga	Approved Engineer's Dollar Invoice No. 88/1982.	July 16, 1982
15.	PT ICCI	Information.	July 17, 1982
16.	PT ICCI	Concrete Batching Plant in Sentul Area.	July 19, 1982
17.	Bina Marga	Standard Slaves.	July 27, 1982
18.	PT ICCI	Rainfall data for June 1982.	July 28, 1982
19.	P. ICCI	Statement.	July 29, 1982

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SECTION X APPENDIX

X. 2. OUTGOING CORRESPONDENCE

<u>No.</u>	<u>TO</u>	<u>SUBJECT</u>	<u>D A T E</u>
1.	Bina Marga	Contractor's Equipment Report for April and May.	July 1, 1982
2.	Bina Marga	Submittal of Engineer's Dollar Invoice No. 88 for June.	July 1, 1982
3.	Bina Marga	Cost Reduction Report Jagorawi Stage II.	July 2, 1982
4.	PT ICCI	ICCI letter DJW/82-E/139 dated July 1, 1982.	July 2, 1982
5.	Bina Marga	Housing for Mr. Van Melsem.	July 2, 1982
6.	PT ICCI	Claim for Access Roads.	July 2, 1982
7.	PT ICCI	ICCI letter DJW/82-E/140 dated July 1, 1982.	July 3, 1982
8.	JV NYC	Weekly Administrative Report No. 383.	July 3, 1982
9.	PT ICCI	Batching Plant Portland Cement Concrete Materials Transmixers.	July 7, 1982
10.	PT ICCI	Bridge 11+932 pier 2.	July 7, 1982
11.	PT ICCI	Approved of Cement.	July 8, 1982
12.	PT ICCI	Rainfall Records for June.	July 9, 1982
13.	PT ICCI	Plant Bridges.	July 9, 1982
14.	JV NYC	Weekly Administrative Report No. 384.	July 10, 1982
15.	Bina Marga	Submittal of Engineer's Rupiah Invoice No. 100 for June.	July 12, 1982
16.	Bina Marga	Bank Guarantee.	July 12, 1982
17.	Bina Marga	US/AID Review and Approval of Cost Saving Design Revisions.	July 12, 1982
18.	Bina Marga	Staffing and Vehicles for Amendmert No. 11, Quality Control.	July 12, 1982
19.	Mr. Hadi S	Participation in Government Coaching and Testing Program.	July 13, 1982

SECTION X APPENDIX

X. 2. OUTGOING CORRESPONDENCE (Cont'd)

<u>No.</u>	<u>TO</u>	<u>SUBJECT</u>	<u>D A T E</u>
20.	Mr. Gross	Amendment No. 10, Jagorawi Project.	July 15, 1982
21.	Bina Marga	Standard Sieves.	July 16, 1982
22.	Bina Marga	Affect of Truck Overloads on Bridge Structures.	July 17, 1982
23.	JV NYC	Weekly Administrative Report No. 385.	July 17, 1982
24.	JV NYC	Transmittal of Approved Dollar Invoice No. 88 for June.	July 19, 1982
25.	JV NYC	Contract Amendment No. 11 for the Jagorawi Project.	July 19, 1982
26.	Bina Marga	Acknowledgement of Advance.	July 19, 1982
27.	JV NYC	Rupiah Accounting Reports for June -- Jagorawi Project.	July 21, 1982
28.	JV NYC	Weekly Administrative Report No. 386.	July 24, 1982
29.	Bina Marga	Handover of Video Equipment.	July 27, 1982
30.	Bina Marga	Submittal of Engineer's Monthly Supervision Report No. 98 for June.	July 27, 1982
31.	Bina Marga	Submittal of Engineer's Rupiah Invoice No. 101 -- Adjustment of Finance Charges.	July 27, 1982
32.	PT ICCI	Original Receipts.	July 27, 1982
33.	PT ICCI	Engineer's Office and Housing.	July 27, 1982
34.	PT ICCI	Requests for Unit Price Increases.	July 27, 1982
35.	PT ICCI	Concrete Batching Plant at Sentul.	July 28, 1982
36.	PT ICCI	Aggregates and Sand for Structure Concrete.	July 28, 1982
37.	Bina Marga	Submittal of Signed Amendments No. 10 and No. 11.	July 29, 1982
38.	Bina Marga	Report of Meeting.	July 30, 1982

SECTION X APPENDIX

X. 2. OUTGOING CORRESPONDENCE (Cont'd)

<u>No.</u>	<u>TO</u>	<u>SUBJECT</u>	<u>D A T E</u>
39.	Bina Marga	Submittal of ICCI's Invoices No. 8 and No. 9.	July 31, 1982
40.	PT ICCI	Engineer's Certification of ICCI's Invoices No. 8 and No. 9.	July 31, 1982
41.	JV NYC	Weekly Administrative Report No. 387.	July 31, 1982

JAGORAWI HIGHWAY PROJECT
STATUS OF CONTRACT CHANGE ORDERS AND FUNDS
Sheet 1 of 1

X. 3. . . . LISTING OF CONTRACT CHANGE ORDERS

CCO No.	DESCRIPTION	EIC SUBMIT	CONTRACTOR ACCEPT	BINA MARGA APPROVED RECOMM'D	BINA MARGA APPROVED	RUPIAH AMOUNT
	ORIGINAL AUTHORIZATION					+ 8,050,000,000
1	Revise Clearing and Grubbing	May 9, 1981	May 14, 1981	May 19, 1981	May 25, 1981	18,374,720
1	Revise Unclassified Excav., Class 1	May 9, 1981	May 14, 1981	May 19, 1981	May 25, 1981	(-) 47,040,000
2	Revise Spec. Engineer Vehicles	May 9, 1981	May 14, 1981	May 19, 1981	May 25, 1981	0
3	3-edge Bearing Test Machine	Sept. 10, 1981	Sept. 15, 1981	Sept. 17, 1981	Oct. 1, 1981	+ 1,774,381
4	Revise Density Spec. for A.B.C. & Select Roadway Embankment	May 9, 1981	May 14, 1981	May 19, 1981	May 25, 1981	0
5	Engineer Housing Civil Works	May 9, 1981	May 14, 1981	May 19, 1981	May 25, 1981	+ 37,001,726
6	Recondition H-piles	May 6, 1982	June 3, 1982	May 9, 1982	June 16, 1982	(-) 105,008,457
7	Revisions to Engineer's Housing	Mar. 15, 1982	Mar. 17, 1982	April 8, 1982	Apr. 20, 1982	+ 38,015,188
8	Weigh House Modifications	---	---	---	---	---
9	Grade Change & Rev'd Typical Sect.	Mar. 15, 1982	Mar. 17, 1982	April 8, 1982	Apr. 20, 1982	(-) 269,529,428
10	Revisions to Conc. Perf'd Pipe	May 8, 1982	June 3, 1982	May 9, 1982	June 16, 1982	+ 33,905,565
11	Revised Concrete Headwalls	---	---	---	---	---

	T O T A L					7,757,493,695

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REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY STAGE II Contract : No. 08/CTR/DN/BM/81 Contractor : INDONESIAN CONSORTIUM OF CONSTRUCTION INDUSTRIES. Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Date : December 30, 1981. Pay Estimate No. : 7. RUPIAH : Invoice no 0. Remarks : Progress Payment nov 26 thru December 25, 1981.
---	---

TOTAL RUPIAH VALUE OF CONTRACT : Rp. 8,050,000,000.--

Description	RUPIAH TOTAL
Total Amount of Work Completed	Rp. 887,073,403.--
Total Amount Previously Credited	Rp. 847,774,513.--
Total Amount Being Invoiced for Payment	Rp. 39,298,890.--
Less 10% Retention	Rp. 3,929,889.--
Less 10% Advance Payment	Rp. 3,929,889.--
Total Amount to be deducted	Rp. 7,859,778.--
Sub total.	Rp. 31,439,112.--
Add. 2.5% PPh. Tax.	Rp. 785,978.--
Total Amount to be paid to the Contractor	Rp. 32,225,090.--
Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract.	Rp. 877,603,756.--
Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed.	Rp. 56,688,719.--

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.



HUSODO SUEARTO.
 Project Manager
JAGORAWI HIGHWAY STAGE II PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Indonesian Consortium of Construction Industries.
 Invoice No. covering Pay Estimate No.
 on the day of, at hours

Engineer - In - Charge
JAGORAWI HIGHWAY STAGE II PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

1. The services (or equipment and materials) for which payment 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;

Date :

LARRY G. BURNEN.
 Engineer - In - Charge
JAGORAWI HIGHWAY STAGE II PROJECT

Approved for Payment

PARMIN ERE.
 Project Manager
JAGORAWI HIGHWAY STAGE II PROJECT.

2. Date :

Ir. MOELIA AIDA.
 Director of Construction
JAGORAWI HIGHWAY STAGE II PROJECT

July 30, 1982

Deductions from Invoice No. 8
in accordance with ARTICLE
109.11.3(b) which states :

"Any item on the invoice which the Engineer
can not certify will be subtracted from
the total amount of the monthly progress
payment as a questionable item. The Engi-
neer will certify the remainder of the
invoice for payment"

MATERIALS ON HAND

<u>I t e m</u>	<u>Amount invoiced</u>	<u>Amount document by receipts</u>
Bar reinforcing steel	Rp 79,207,540	Rp 45,517,121
Invoiced at 90%	Rp 71,286,786	Rp 40,965,409
	(-) Rp 40,965,409	
Deduction	(-) Rp 30,321,377	

A) Corrections to Materials on hand invoice

Invoice	Rp 94,517,032
Deduct	(-) Rp 30,321,377
Corrected	Rp 64,195,655

B) Corrections to Sheet 4 of estimate

	<u>This estimate</u>	<u>Total estimate</u>
Total work done	(-) 55,218,142	763,097,412
Materials on hand	64,195,655	93,654,614
Total work done : Mat'ls	8,977,513	856,752,026
Deduct 2/3 of 15% ad- vance payment	(-) 897,751	65,803,934
Deduct 10% retention	(-) 897,751	85,675,203
Sub-total deduction	(-) 1,795,502	(-) 151,479,137
Sub-total	7,182,011	705,272,889
Add 2.5% PPN tax	179,550	17,631,822
TOTAL AMOUNT DUE CONTRACTOR	7,361,561	722,904,711

Prepared by :

LARRY G. BUNTEN
Engineer in Charge

MATERIALS ON HAND

I) Supported by invoice

D-13	3329 @ 12 m	=	39,948 X 0.995	=	39,748 kg
D-19	274 @ 12 m	=	3,288 X 2.237	=	7,355 kg
D-22	87 @ 12 m	=	1,044 X 3.045	=	3,179 kg
D-25	240 @ 12 m	=	2,880 X 3.977	=	11,454 kg
D-29	31 @ 12 m	=	372 X 5.064	=	1,884 kg
D-32	2255 @ 12 m	=	27,060 X 6.409	=	<u>173,428 kg</u>
					237,048 kg

II) Amount paid for

	<u>Rp 45,517,121</u>			=	176,564 kg
	Rp 61,109,419	X 237,048			

III) Used Nov. 26 - Dec. 25

per estimate = 0

IV) Rebar on hand paid for = 176,564 kg

Address : Wisma Antara, 5th floor-17, Jln. Merdeka Selatan, Jakarta, Indonesia
Phone : 347412-3, 347581-2, Telex : 44845 ICCI IA.

Our ref : DJW/82 - E/149. Bogor, July 29, 1982.

To : Ammann & Whitney
Trans - Asia Engineering Association
P.O. Box 44 / Bogor.

Attention : Mr. Larry G. Bunten.

Subject : Statement.

Dear Sirs,

Please find enclosed the original statement and original receipts for payment to PD Djernih at Jakarta Kota from PT. ICCI, as you formerly requested.

The above receipts are to support our claim for the Concrete Steel that will be used at the Jagorawi II Project as material on hand.

The original reports on acceptance of material of 3 Desember 1981 at the Jagorawi II Project is event attached to this letter.

We hope the matter will be hereby clarified and your statement on concrete material on hand is hereby accepted.

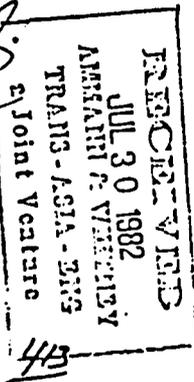
Thank you for your considerable cooperation.

Very truly yours,
PT. INDONESIAN CONSORTIUM
OF CONSTRUCTION INDUSTRIES

Project Manager Road

Rusodo Suharto.

- Co :
1. Project Manager Jagorawi.
 2. Vice President Domestic
o.g. Director of Operation.
 3. Director of Finance, ICCI.
 4. File .-
- HS/HD/srb.-



No : 07/ICCI/1982.

Jakarta, 16 Juli 1982.

Mr. Ir. Satya Moedjenan
Dir. Operation PT. ICCI
J A K A R T A .

Dear Sir,

With regard to your letter of no : D00/82 - 00769, dated July 10, 1982, that we only received on July 16, 1982, we hereby enclosed our " Statement letter on hand over of material and its payment thereof ", in accordance to your request.

We hope the matter will be hereby accepted accordingly.

Thank you for your attention.

Very truly yours,

Signed

W. Suryadi.-

STATEMENT.

The undersigned :

N a m e : PD " Djernih "
Address : 120 A Jl. K.H Moh. Mansyur, Jakarta.

hereby states, that by way "Berita Acara" of December 3, 1981, have handed over concrete steel marked BJTD - 40 ex Krakatau Steel to PT. ICCI Jagorawi Project Stage II Ciawi Bogor with the following breakdown :

<u>Size</u>	<u>Total</u>	<u>Unit price</u>	<u>Total.</u>
D - 13	3329 ea	Rp 3.194,88	Rp 10.635.755,52
D - 19	274 ea	" 6.716,76	" 1.840.392,24
D - 22	87 ea	" 8.975,76	" 780.891,12
D - 25	240 ea	" 11.596,20	" 2.783.088,—
D - 29	31 ea	" 16.255,08	" 503.907,48
D - 32	2255 ea	" 19.762,92	" 44.565.384,60
			<hr/>
			Rp 61.109.418,96
			<hr/> <hr/>

The following are payments accepted from ICCI :

Receipt no : 3/12/ICCI/1981 (I) date 9 January 1982	Rp 40.000.000,—
Receipt no : 3/12/ICCI/1981 (II) date 31 May 1982	" 600.000,—
Receipt no : 3/12/ICCI/1981 (III) date 10 July 1982	" 4.917.121,—
	<hr/>
	Rp 45.517.121,—
	<hr/> <hr/>

The rest amountd Rp 15.592.297,96 is not yet paid to this date.

This statement is made truthfully to whom it may concern.

signed,

William Suryadi.
Marketing Manager.



P.D. DJERNIH

Jl. K. H. Moh. Mansyur No. 120-A ~~in~~ 631706 (4 saluran)
JAKARTA - BARAT 631538

No. :
Perihal :
Lampiran :

Jakarta,19...

"SURAT PERNYATAAN"

Yang bertanda tangan dibawah ini :

N a m a : PD "DJERNIH"
A l a m a t : Jl. K.H. Moh. Mansyur 120A Jakarta.

dengan ini menyatakan bahwa dengan "Berita Acara" pada tgl. 3 Desember 1981 kami telah menyerahkan kepada PT I.C.C.I. Proyek Jagorawi Stage II - Ciand Bogor, besi beton bersirip BJ.TD-40 ex Krakatau Steel dengan perincian sebagai berikut:

<u>Urutan</u>	<u>Jumlahnya</u>	<u>Harga satuan</u>	<u>Jumlah harga</u>
D - 13	3329 batang	Rp. 3.194,88/btg	Rp.10.635.755,52
D - 19	274 batang	Rp. 6.716,76/btg	" 1.840.392,24
D - 22	87 batang	Rp. 8.975,76/btg	" 780.891,12
D - 25	240 batang	Rp.11.596,20/btg	" 2.783.088,—
D - 29	31 batang	Rp.16.255,08/btg	" 503.907,49
D - 32	2255 batang	Rp.19.762,92/btg	" 44.565.384,60
			<u>Rp.61.109.418,96</u>

Pembayaran yang telah kami terima dari PT I.C.C.I. adalah sbb:

Kwitansi No.3/12/ICCI/1981-(Ke-I). tgl. 9-1-1982	=	Rp.40.000.000,—
" No.3/12/ICCI/1981-(Ke-II). tgl.31-5-1982	=	" 600.000,—
" No.3/12/ICCI/1981-(Ke-III). tgl.10-7-1982	=	" 4.917.121,—
		<u>Rp.45.517.121,—</u>

Sisanya sebesar Rp.15.592,297,96 sampai saat ini belum dibayar.

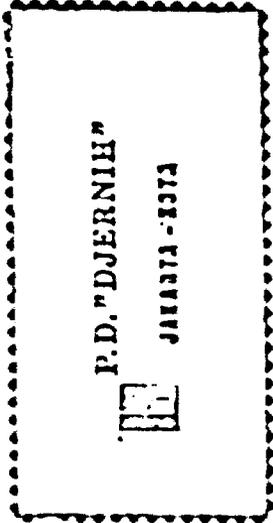
Demikianlah Surat Pernyataan ini kami buat dengan sebenarnya, harap yang berkepentingan maklum.

Jakarta, 16 Juli 1982.

ORIGINAL RECEIPTS
ARE CONTAINED IN
INVOICE NO. 8

FJB

Stamp: P.D. DJERNIH
KABANG. PENATARAN
Signature: William Suryadi
(William Suryadi)
Kabang. Penataran



No. 3/12/ICCI/1981 (K-1).

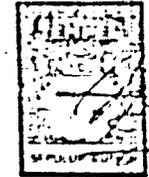
Sudah terima dari PT I.C.C.I. JAKARTA.

Danyaknya uang EMPAT PULUH JUTA-RUTIHAN

Untuk pembayaran pembelian besi beton proyek Jagorawi dengan perincian:
Jumlah tagihan Rp.61.109.418,96
Pembayaran pertama " 40.000.000,—
S i s a Rp.21.109.418,96

Jakarta, 9 Januari 1982.

Jumlah Rp. 40.000.000,—



P.D. "DJERNIH"
—JAKARTA-KOTA
(W. Surya-)

"P.T. L.C.C.I."
 PROYEK : *Jayakanti*
 KODE : *02*

BUKTI PENGELUARAN KAS / BANK :

NO. *97*

DIBAYAR KEPADA : *P. D. Djeknik*

LEMBAR 1 : PUSAT
 LEMBAR 2 : PROYEK

URAIAN :

Angsuran I dan pembayaran Ases sebelum ulir.

FUNAJ : CER/GIRO BILYET NO. :

LAMPIRAN :

No. SPK	KODE / TAHAP / JENIS	DEBET NO. PERK.	V	RUPIAH
<i>02</i>	<i>BK dr 52 7 + 13</i>			<i>4.917.121 -</i>
	<i>Siak Tagihan Rp 20.507.410,96</i>			
	<i>Dibayar oleh Rang Rp 4.917.121,-</i>			
	<i>Siak Rp 15.592.297,96</i>			
				<i>4.917.121 -</i>

TERBILANG :

*Empat juta sembilan ratus tujuh belas
 Ribun perak dan puluh dua*

Diperiksa	Cost Accounting :	DIBUKUKAN
	Proyek Manager :	
	Direktur Operasi :	
	Direktur Keuangan :	
	Mengsahkan Direksi :	

BoGOR 15 Juli 1982

PENERIMA,

[Signature]

P.D. "DJERNIH"
JAKARTA - KOTA

No. 3/12/ICCI/1981 (ke III).

Sudah terima dari PT. ICCI Road - BOGOR.

Banyaknya Uang Empat juta sembilan ratus tujuh belas ribu seratus dua puluh satu rupiah.

Untuk pembayaran : Angsuran II sisa pembayaran besi beton ulir.

Sisa tagihan : Rp 20.509.418,96

Dibayar sekarang Rp 4.917.121,-

Sisa Rp 15.592.297,96

Jakarta, 10 Juli - 19 82

Jumlah Rp. 4.917.121,-



D. "DJERNIH"

JAKARTA - KOTA

(W. Suryadi.)



No. 3/12/ICCI/1981 (ke II).

Sudah terima dari

PT. ICCI Road --- BOGOR

Banyaknya Uang

~~enam ratus ribu rupiah~~

Untuk pembayaran:

Angsuran I sisa pembayaran pembelian besi beton ulir.

Jumlah pembayaran : Rp. 61.109.418,96

Catatan :

telah dibayarkan : Rp. 40.000.000,--

Pembayaran dgn GB BNI 46 cab. Bogor- : Rp. 600.000,--

No. P. 205090

Sisa pembayaran : Rp. 20.509.418,96

Jakarta, 31 Mei 1982

Jumlah Rp.

600.000,--

P.D. "DJERNIH"

JAKARTA - BOGOR
(W. Suryadi)

26



P.T. **INDONESIAN CONSORTIUM OF CONSTRUCTION INDUSTRIES**

PURCHASE ORDER

P.T. ICCI OPERASI DALAM NEGERI
SKYLINE BUILDING LANTAI 6, JAKARTA
ADDRESS OF ISSUING OFFICE

ISSUED TO P.D. DJERNIH JL. K.H. MOR. MANSYUR NO. : 120 A JAKARTA.	PURCHASE ORDER NO. <u>32/ICCI/T.P/81.</u> REOR. NO. _____ PROJECT <u>02</u>
SHIP TO P.T. ICCI PROYEK JAGORAWI STAGE II, BOGOR.	(THESE NUMBERS MUST APPEAR ON ALL INVOICE CORRESPONDENCE AND SHIPPING MEMORANDA)
SHIP VIA F.O.B. POINT	DATE <u>23</u> <u>NOPEMBER</u> 1981

DELIVERY BY SI WAH MENERIMA
 ORDER INI SELANBAT-
 NYA TGL. 26-11-1981.

TERMS
 SETELAH BARANG
 DISERAHKAN.

SELLER AGREES TO MANUFACTURE, SELL, AND DELIVER
 SUPPLIES OF SERVICES SPECIFIED HERE IN, SUBJECT
 TO THE TERMS CONDITIONS OF THE FACE HERE OF

ITEM NO.	QUANTITY	DESCRIPTION OF MATERIAL	UNIT PRICE	AMOUNT	COST DIST
1.	√3529 BATANG	<u>BESI BETON BERSIRIP BJTD 40 PABRIK KRAKATAU STEEL.</u> (TIGA RIBU TIGA RATUS DUA PULUH SEM- BILAN)	@ Rp. 3.194,88	Rp. 10.635.755,52	
2.	√274 BATANG	BESI BETON D.13 - 12 MTR. (DUA RATUS TUJUH PULUH EMPAT)	@ Rp. 6.716,75	Rp. 1.840.392,24	
3.	√87 BATANG	BESI BETON D.19 - 12 MTR. (DELAPAN PULUH TUJUH)	@ Rp. 8.975,75	Rp. 780.891,12	
4.	√240 BATANG	BESI BETON D.22 - 12 MTR. (DUA RATUS EMPAT PULUH)	@ Rp. 11.596,20	Rp. 2.783.088,00	
5.	√31 BATANG	BESI BETON D.25 - 12 MTR. (TIGA PULUH SATU)	@ Rp. 16.255,08	Rp. 503.907,48	
6.	√255 BATANG	BESI BETON D.29 - 12 MTR. (DUA RIBU DUA RATUS LIMA PULUH LIMA)	@ Rp. 19.762,92	Rp. 44.565.384,60	
			23/12 Jumlah ..	Rp. 61.109.418,96	

(ENAM PULUH SATU JUTA SERATUS SEMBILAN RIBU EMPAT RATUS DELAPAN BELAS 96/100 %)

SYARAT-SYARAT LAIN:

- BARANG TERSEBUT HARUS SESUAI DENGAN SPEC. TERSEBUT DIATAS.
- HARGA BARANG TSB. ADALAH FRANCO PROYEK DI SITE JAGORAWI STAGE II CIAVI BOGOR SUDAH TERMASUK ONGKOS BONGKAR DI SITE.
- PEMBAYARAN AKAN DILAKUKAN SETELAH BARANG DISERAHKAN DI PROYEK DENGAN MENYERAHKAN TANDA TERIMA BARANG ATAU BERITA ACARA SERAH TERIMA BARANG.
- APABILA SESUDAH TGL. 30 NOPEMBER 1981 BARANG TSB. DIATAS BELUM JUGA DISERAHKAN KEPADA PEMBELI MAKA ORDER INI MENJADI BATAL DAN PIHAK PENJUAL HARUS MEMPERBAHARUI ATAU MENGENBALIKAN ORDER INI.

APPROVED

GIC Form No. 22

SUPPLIER AGREEMENT, DIR. OPERASI,

By Ir. Satia Moedjenan (Signature) Procurement Manager, Wenang.

DIR. ENG. & EST., Ir. Machmoed (Signature) Ir. Machmoed.

P.D. DJERNIH (Signature) (W. SURYADI) (Signature)

BERITA ACARA SERAH TERIMA BARANG

Yang bertanda tangan dibawah ini :

I. Nama : WILLIAM SURYADI
Jabatan : Kepala Bagian Pemasaran PD Djernih.
Alamat : Jl. K.H. Moh. Mansyur No.120A Jakarta.

selanjutnya disebut sebagai Pihak Pertama.

II. Nama : P I K A R T
Jabatan : Superintendent Bridge.
Proyek : PT ICCI Jagorawi Stage II Bogor.
Alamat : PT ICCI Baranangsiang Bogor.

selanjutnya disebut sebagai Pihak Kedua.

Dengan ini menyatakan bahwa pada hari ini tanggal 3 Desember 1981, Pihak Pertama telah menyerahkan kepada Pihak Kedua dan Pihak Kedua menyatakan telah menerima dari Pihak Pertama :

BESI BERTON BERSIPIPIK IK KRAKATAU STEEL:

D.13 - 12 Mtr = \checkmark 3.329 (Tiga ribu tiga ratus dua puluh sembilan) batang.

D.19 - 12 Mtr = \checkmark 274 (Dua ratus tujuh puluh empat) batang.

D.22 - 12 Mtr = \checkmark 87 (Delapan puluh tujuh) batang.

D.25 - 12 Mtr = \checkmark 240 (Dua ratus empat puluh) batang.

D.29 - 12 Mtr = \checkmark 31 (Tiga puluh satu) batang.

D.32 - 12 Mtr = \checkmark 2.255 (Dua ribu dua ratus lima puluh lima) batang.

Dalam keadaan baik dan cukup.

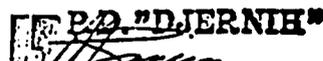
Demikian Berita Acara ini dibuat dengan sebenarnya.

PT I.C.C.I.


P I K A R T
Superintendent Bridge.



PD DJERNIH


William Suryadi
Kabag. Pemasaran.

MICHIGAN PROJECT

December 29, 1901.
 Revised Under November 25, 1901 thru December 25, 1901.

STAGE II

No.	REV. ITEM NO.	DESCRIPTION	UNIT	QTY.	ORIGINAL ESTIMATE	THIS CONTRACT		TOTAL ESTIMATE	
						Quantity	Amount	Quantity	Amount
BASIC PLAN									
1.	109(1)	Mobilization	L.S.		259,740.577	(-)3333	(-)89,913,659	3333	89,913,659
2.	111(1)	Engineer's Facilities	L.S.		120,435.458	093	1,120,049	9450	113,808,239
3.			L.S.	Deleted					
4.			L.S.	Deleted					
5.	201(1)	Clearing and Grubbing	Cu.M.	16,506	11,156.223	8185	1,337,909	1,07662	17,661,386
6.	202(1)	Remove Existing Grout on Loose Riv. Riv.	Cu.M.	1,356	4,582.320				
7.	202(2)	Remove Existing Handalls	Each	95,728	897.552				
8.	202(3)	Remove Existing Wing Walls	Each	719,397	1,436,755				
9.	202(4)	Remove Existing Bridge Girders Spur Sea 1-204							
		And Miscellaneous Grout Removal on Piers	L.S.		3,289,241				
10.	203(1)	Unclassified Excavation Class 1	Cu.M.	2,352	412,440.070	6,43851	15,143,376	38,92551	21,564,560
11.	203(2)	Unclassified Excavation Class 2	Cu.M.	1,927,779	29,260,043				
12.	203(3)	Excavation Class 3	Cu.M.	2,255,448	37,049,768	1107	24,857	9,62188	21,612,090
13.	203(4)	Roadway Subdrain	Cu.M.	1,113	103,149.100	3,000	3,351,450	27,78634	31,041,509
14.	203(5)	Select Nonsway Pierment	Cu.M.	8,654	139,329,400				
15.	204(1)	Structure Excavation	Cu.M.	4,022	25,740,200			1,710	14,798,340
16.	204(2)	Bridge Excavation	Cu.M.	6,528	38,515,200	35685	2,229,516	1,55519	10,152,280
17.	204(3)	Removal of Existing Pavement	Cu.M.	3,852	12,420,700				
18.	204(4)	Asphalt Treated Base Course	Ton	15,434	643,597.200				
19.	204(5)	Aggregate Base Course	Cu.M.	13,165	414,717.225			2	26,331
20.	205(1)	Wire Treated Improved Subgrade, Processing	Cu.M.		DELETED	DURING	810	NEGOTIATIONS	
21.	205(2)	Hydrated Lime	Ton		DELETED	DURING	810	NEGOTIATIONS	
22.	205(3)	Carbit Seal, Sulphurized Asphalt Grade 88-III	Ton		DELETED	DURING	810	NEGOTIATIONS	
23.	205(4)	Hot Bituminous Concrete Pavement	Ton	16,269	254,481,300				
24.	205(5)	Asphalt Cement 60-70 Penetration	Ton	500,125	694,415,200				
25.	205(6)	Dark Conc. Sulphurized Asphalt Grade 88-III	Ton	22,215	13,114,311				
26.	205(7)	Wire Coat, Marine Asphalt Grade 88-III	Ton	524,245	57,733,780				
27.	209(1)	Seal Coat, Cover Aggregate, Grading, Type 3	Ton	14,308	21,462,000				
28.	209(2)	Seal Coat, Liquid Asphalt Grade RC-25A	Ton	335,460	3,865,110				
29.	209(3)	Seal Coat, Sulphurized Asphalt Grade 88-III	Ton	79,557	2,632,726				
30.	206(1)	Structural Steel Piles Furnished	Lbs.	46,625	504,238,750	48	2,238,000	6,360	296,535,000
31.	206(2)	Structural Steel Piles Driven	Each	12,486	169,411,500	61	8,060,060	337	14,639,020
32.	206(3)	Structural Steel Piles Test Driven	Each	132,400	357,500				
33.	206(4)	Soil Test	(Each)	15,076	2,192,325				
34.	206(5)	Soil Borings (Other than Rock)	L.S.	15,076	603,300			96185	5,043,366
35.	206(6)	Soil Borings (Rock)	L.S.	26,708	5,344,300			38125	4,088,465
36.	206(7)	Mobilization & Demobilization of Borings							
		Equipment, Each Bridge Site	Each	632,106	1,599,178			1	633,106
37.	501A(1)	Structural Concrete, Class "AA"	Cu.M.	120,282	527,394,300			31,501	3,788,883
38.	501A(2)	Structural Concrete, Class "A"	Cu.M.	50,213	2,227,200				
						(-)56,284,442			715,326,344

LAGOON
HIGHWAY PROJECT
STAGE

PROJECT RECORD-ESTIMATE

Period from 7 November 26, 1981 thru December 25, 1981.

Sheet 2

Amount \$

Best Available Document

LINE NO.	ITEM NO.	ITEMS	UNIT	QUANTITY	UNIT PRICE	LINE ESTIMATE		TOTAL ESTIMATE	
						Amount	Quantity	Amount	Quantity
39.	601(1)	East Bridge STA. 11 + 507, 2 spans, 4 lanes	L. M.			204,095.60			
40.	601(2)	East Bridge STA. 11 + 197, 2 spans, 4 lanes	L. M.			350,511.81			
41.	601(3)	East Bridge STA. 15 + 310, Superstructure	L. M.			357,936.26			
42.	602(1)	Reinforcing Steel	Sq. Yd.	548		430,440.00			
43.	603(1)	Reinforced Concrete Slab, 8" 60' dia	L. M.	42,122		44,234,400			
44.	603(2)	Reinforced Concrete Slab, 8" 60' dia	L. M.	59,754		43,477,960			
45.	603(3)	Reinforced Concrete Slab, 8" 60' dia	L. M.	89,385		4,519,250			
46.	604(1)	Utility Manhole Type I	Each	757,187		4,542,880			
47.	604(2)	Utility Manhole Type II	Each	401,869		1,607,476			
48.	604(3)	Inlet, Type I (Each)	Each	1,032,690		27,029,600			
49.	604(4)	Inlet, Type II (Each)	Each	1,022,051		1,025,051			
50.	604(5)	Inlet, Type III (Each)	Each	1,022,051		10,250,510			
51.	604(6)	Inlet, Type IV (Each)	Each	1,022,051		2,687,104			
52.	604(7)	Gate, Type I	Each	326,943		4,404,145			
53.	605(1)	29' dia. 1' perfor. Conc. Pipe replace, incl. end wall	L. M.	9,913		45,591,100			
54.	605(2)	Underpin Junction for Inlet	Each	17,061		426,525			
55.	606(1)	Galvanized Rock Type Guardrail & Post	L. M.	78,823		45,717,360			
56.	606(2)	Remove Existing Guardrail and Relocate	L. M.	5,391		2,428,580			
57.	607(1)	Barbed Wire Fence	L. M.	12,110		50,862,000			
58.	609(1)	Concrete Curb Gutter, Type 1	L. M.	1,923		1,550,770			
59.	609(2)	Concrete Curb Gutter, Type 2	L. M.	25,415		25,160,850			
60.	609(3)	Concrete Delineation Strip	L. M.	7,360		6,096,000			
61.	609(4)	Concrete Median Barrier	L. M.	32,128		169,411,850			
62.	609(5)	Concrete Median Barrier End Taper	Each	149,123		526,592			
63.	609(6)	Concrete Median Barrier Transition to Bridge	Each	695,439		4,172,534			
64.	619(1)	Rock Slope Protection	Cu. Yd.	15,811		79,055,000			
65.	622(1)	Grouted Rip-Rap 20' dia. Thick for Channel Linings	Sq. Yd.	8,251		255,781,000			
66.	622(2)	Grouted Rip-Rap	Cu. Yd.	39,886		15,954,400			
67.	623(1)	Survey Control Monument	Each	67,796		3,796,576			
68.	624(1)	Piecing Scraped Topsoil	Acre	18,244		12,405,920			
69.	629(1)	Seeding	Acre	81,800		98,160,000			
70.	630(1)	Concrete Block Slope Protection	Sq. Yd.	10,466		15,687,600			
71.	631(1)	Roadway Parking, 10' dia. Striping	L. M.	767		34,785,100			
72.	631(2)	Miscellaneous Pavement Markings, Arrow, Etc.	Sq. Yd.	6,829		136,589			
73.	632(1)	Standard Road Sign, Type A	Each	22,287		244,574			
74.	632(2)	Standard Road Sign, Type B	Each	41,296		1,412,960			
75.	632(3)	Standard Road Sign, Type C	Each	41,296		2,119,440			
76.	632(4)	Standard Road Sign, Type D	Each	408,421		816,842			
77.	632(5)	Standard Road Sign, Type E	Each	446,754		446,754			
78.	632(6)	Non-Standard Road Sign No. 1	Each	247,550		742,650			
79.	632(7)	Non-Standard Road Sign No. 2	Each	247,550		247,550			
80.	632(8)	Non-Standard Road Sign No. 3	Each	309,927		309,927			

Sheet No. 2 Sub-Total:

STATE OF CALIFORNIA
HIGHWAY PROJECT
STAGE 1

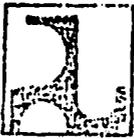
PROJECT RECORD - ESTIMATE

Project No. 7 Section No. 8 Date December 29, 1981
Contract No. November 26, 1981 thru December 25, 1981

SYMBOL SHEET
Description of Project

LINE NO.	ITEM	QUANTITY	UNIT PRICE	TOTAL ESTIMATE	TOTAL ESTIMATE	
					Quantity	Amount
41.532(9)	1/2" Standard Road Sign No. 4	2,178	203.18			
41.532(10)	1/2" Standard Road Sign No. 5	1,672	133.20			
41.534(1)	1/2" Standard Road Sign No. 1	1,120	253.35			
41.532(12)	Round Flashing Beams for Signs, 1/2" Dia	39,256	471.46			
41.533(1)	1" Aluminum Form Components for Signs		2,567.20			
41.533(2)	Traffic Sign Form Components, 1/2"		45,221.60			
41.533(3)	Utility Sign, 1/2" on 1/2"		4,207.58			
41.533(4)	Traffic Sign, Portable		6,385			
41.533(5)	Service Traffic Safety Form Components		20,303			50,101.10
41.533(6)	Traffic Safety Form Components, Type 1		61,240			1,012,152
41.534(1)	Traffic Safety Form Components, Type 2		65,249			816,252
41.535(1)	Moveable Traffic Safety Barricade, Type A		15,331			632,400
41.535(2)	Moveable Traffic Safety Barricade, Type B		15,264			632,776
41.535(3)	Moveable Traffic Safety Barricade, Type C		41,488			532,190
41.536(1)	Headall Type A-1 for 50 on Culvert		550,971			10,338,570
41.536(2)	Headall Type A-1 for 60 on Culvert		20,771			4,531,252
41.536(3)	Headall Type A-1 for 120 on Culvert		591,479			2,755,714
41.536(4)	Headall Type B-1 for 60 on Culvert		72,154			272,184
41.536(5)	Headall Type B-1 for 80 on Culvert		685,870			385,876
41.536(6)	Headall Type B-1 for 120 on Culvert		689,380			699,950
41.536(7)	Headall Type A-2 for 50 on Culvert		320,631			342,043
41.536(8)	Headall Type A-2 for 60 on Culvert		63,932			2,783,032
41.536(9)	Headall Type A-2 for 120 on Culvert		76,220			775,229
41.536(10)	Headall Type B-2 for 60 on Culvert		248,077			348,077
41.536(11)	Headall Type B-2 for 80 on Culvert		41,160			582,342
41.536(12)	Headall Type B-2 for 120 on Culvert		863,287			863,287
41.537(1)	Sky Well for Existing Pedestrian Box	(Each)	2,339,168			5,828,212
	CCC Lump Sum Payment					
	CCC no 1 Three Elev Bearing Test Machine					1,225,260

Best Available Document



REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY STAGE II Contract : No. 00 / CTR / DN / BM / 01 Contractor : INDONESIAN CONSORTIUM OF CONSTRUCTION INDUSTRIES. Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Date : January 29, 1982 Pay Estimate No. : 8 RUPIAH : Invoice no 9. Remarks : Progress Payment Dec 2 thru January 25, 1982.
---	--

TOTAL RUPIAH VALUE OF CONTRACT : Rp. 8,050,000,000.—

Description	RUPIAH TOTAL
Total Amount of Work Completed	Rp. 909,290,189.—
Total Amount Previously Credited	Rp. 887,073,403.—
Total Amount Being Invoiced for Payment	Rp. 22,216,786.—
Less 10 % Retention	Rp. 2,221,679.—
Less 10 % Advance Payment	Rp. 2,221,679.—
Total Amount to be deducted	Rp. 4,443,357.—
Total	Rp. 17,773,429.—
Add 2.5% PPh tax	Rp. 444,336.—
Total Amount to be paid to the Contractor	Rp. 18,217,765.—
Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract.	Rp. 934,292,485.—
Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed.	34,732,653.—

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]
JUSODO SUHARTO.
 Project Manager

JAGORAWI HIGHWAY STAGE II PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Indonesian Consortium of Construction Industries.
 Invoice No. covering Pay Estimate No.
 on the day of at hours.

Engineer In - Charge

JAGORAWI HIGHWAY STAGE II PROJECT

ENGINEER CERTIFICATION OF PERFORMANCE

1. The services (or equipment and materials) for which payment 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;

Date :

LARRY G. BUNTEN.
 Engineer - In - Charge

JAGORAWI HIGHWAY STAGE II PROJECT

Approved for Payment <p style="text-align: center;">PARMIN ERE. Project Manager JAGORAWI HIGHWAY STAGE II PROJECT.</p>	1. Date :	2. Date : <p style="text-align: center;">Ir. MOELIA AIDA. Director of Construction JAGORAWI HIGHWAY STAGE II PROJECT</p>
---	-----------------	--

July 30, 1982

Deductions from Invoice No. 9
in accordance with ARTICLE
109.11.3 (b) which states :

"Any item on the invoice which the Engineer
can not certify will be subtracted from
the total amount of the monthly progress
payment as a questionable item. The Engi-
neer will certify the remainder of the
invoice for payment"

A) Corrections to Materials on Hand

176,564 kg rebar*	Rp	45,517,121	
2,787.3 lm PCP	Rp	5,713,965	
645 lm 60 cm RCP	Rp	27,172,560	
280 lm 80 cm RCP	Rp	16,451,120	
37.5 lm 120 cm RCP	Rp	3,389,437	
3823.85 m ³ aggr.	Rp	16,920,536	
T o t a l	Rp	115,164,739	
@ 90%	Rp	103,648,265	
less last estimate	(-) Rp	93,654,614	
	Rp	9,993,651	
ICCI requested payment	Rp	8,610,959	OK
Plus last estimate	Rp	93,654,614	
T o t a l	Rp	102,265,573	

*Amount certified by original receipts contained with
invoice #8 (xerox copy attached).

B) Corrections to Sheet 4 of estimate

	<u>This estimate</u>	<u>Total estimate</u>
Total work done	13,605,827	776,703,239
Materials on hand	8,610,959	102,265,573
Total work done : Mat'ls	22,216,786	878,968,812
Deduct 2/3 of 15% advance payment	(-) 2,221,679	68,025,613
Deduct 10% retention	(-) 2,221,679	87,896,881
Sub-total deduction	(-) 4,443,357	(-) 155,922,494
Sub-total	17,773,429	723,046,318
Add 2.5% PPn tax	444,336	18,076,158
TOTAL AMOUNT DUE CONTRACTOR	18,217,765	741,122,476

Prepared by :

LARRY G. BUNTEN
Engineer in Charge

PROJECT RECORD - ESTIMATE

Period No. 8 Estimate No. 9 Date January 29, 1982
Period Dates December 26, 1981 thru January 25, 1982

BID SECTION NO.	FAT ITEM NO.	ITEMS	CONTRACT PRICES	ORIGINAL AUTHORIZED Amount	THIS ESTIMATE		TOTAL ESTIMATE		BID SECTION NO.		
					Quantity	Amount	Quantity	Amount			
		BASIC TENDER									
1	102(1)	Mobilization	L.S.	269,740,377			3.33	87,913,659			
	111(1)	Engineer's Facilities	L.S.	120,435,458			9.50	113,806,239			
			L.S.	Deleted							
			L.S.	Deleted							
5	201(1)	Clearing and Grubbing	Ac	16,405	11,156,080						
6	202(1)	Remove Existing Grouted or Loose Rip Rap	Cu.H.	11,456	4,582,400		1.07652	17,661,386			
7	202(2)	Remove Existing Headwalls	Each	99,728	807,557						
8	202(3)	Remove Existing Wing Walls	Each	718,393	1,436,786						
9	202(4)	Remove Existing Bridge Gully Spar Sta 34+25+ And Miscellaneous Grouted Rip Rap on Pincal	L.S.		3,285,241						
10	203(1)	Unclassified Excavation Class 1	Cu.H.	2,352	517,440,000		38.93251	91,564,560			
11	203(2)	Unclassified Excavation Class 2	Cu.H.	1,937	29,260,025						
12	203(3)	Excavation Class 3	Cu.H.	2,245	37,049,760		9.62488	21,612,090			
13	203(4)	Excavation Class 4	Cu.H.	1,117	108,140,120		27,78636	31,041,509			
14	203(5)	Select Roadway Embankment	Cu.H.	8,654	139,329,400		1,710	14,798,340			
15	204(1)	Structure Excavation	Cu.H.	4,022	25,740,800		5	20,110			
16	206(2)	Bridge Excavation	Cu.H.	6,528	38,515,200	237	76	1,551,967	1,792	93	11,704,247
17	209(1)	Removal of Existing Pavement	Sq.Y.	3,651	12,420,200						
18	201(1)	Asphalt Treated Base Course	Ton	15,414	643,597,800						
19	204(1)	Aggregate Base Course	Cu.H.	13,165	414,217,275			2	26,331		
20	205(1)	Lime Treated Improved Subgrade Processing	Cu.H.		DELETED	DURING	810	NEGOTIATIONS			
21	205(2)	Hydrated Lime	Ton		DELETED	DURING	810	NEGOTIATIONS			
22	205(3)	Curing Seal, Emulsifier Asphalt Grade 55-III	Ton		DELETED	DURING	810	NEGOTIATIONS			
23	203(1)	Hot Bituminous Concrete Pavement	Ton	16,202	254,481,200						
24	203(2)	Asphalt Cement 50-70 Penetration	Ton	802,176	24,284,415,707						
25	207(1)	Tack Coat, Emulsified Asphalt Grade 55-III	Ton	552,213	3,714,351						
26	208(1)	Prime Coat, Liquid Asphalt Grade 7C-70	Ton	624,848	57,733,280						
27	209(1)	Seal Coat, Cover Aggregate, Grading B, Type 3	Ton	14,108	21,462,000						
28	209(2)	Seal Coat, Liquid Asphalt Grade 7C-250	Ton	635,468	34,805,420						
29	209(3)	Seal Coat, Emulsified Asphalt Grade 55-III	Ton	479,557	8,632,026						
30	200A(1)	Structural Steel Piles Furnished	L.P.	46,625	404,257,750			6,360	296,535,000		
31	200A(2)	Structural Steel Piles Driven	Each	32,460	109,411,060	91	12,053,060	628	56,692,880		
32	200A(3)	Structural Steel Piles Test Driven	Each	32,460	397,560						
33	200A(4)	Load Test	(Each)	2,192,576	2,192,576						
34	200A(1)	Soil Borings (Other than Rock)	L.P.	52,074	2,603,700			96.85	5,043,366		
35	200A(2)	Soil Borings (Rock)	L.P.	406,880	5,344,400			38.25	1,688,165		
36	200B(1)	Mobilization & Demobilization of Office									
		Examiner, Each Bridge Site	Each	333,104	1,209,314			1	1,633,106		
37	201A(1)	Structural Concrete, Class "A"	Cu.H.	220,262	632,374,620			31.50	3,788,883		
38	201A(2)	Structural Concrete, Class "C"	Cu.H.	58,273	6,447,580						
		Sheet No. 1						13,645,827		758,932,171	

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PROJECT RECORD-ESTIMATE

Version No. 8 Project No. 9 Date January 29, 1982.
Period Dates December 26, 1981 thru January 25, 1982.

STAGE

(1) (2) (3) (4)

BID ITEM NO.	PAY ITEM NO.	ITEMS	UNIT	CONTRACT PRICES		TOTAL ESTIMATE		BID SG- 450
				UNIT	AMOUNT	QUANTITY	AMOUNT	
39.	601B(1)	East Bridge STA. 11 + 912, Superstructure	L. S.	704,009,623				
40.	601B(2)	East Bridge STA. 13 + 587, Superstructure	L. S.	296,511,817				
41.	601B(3)	East Bridge STA. 15 + 540, Superstructure	L. S.	392,218,267				
42.	602(1)	Reinforcing Steel	Rg.	290,440,000				
43.	603(1)	Reinforced Concrete Pipe, Ø 60 cm	L. H.	42,128	44,234,400			
44.	603(2)	Reinforced Concrete Pipe, Ø 80 cm	L. H.	56,754	43,477,960			
45.	603(3)	Reinforced Concrete Pipe, Ø 120 cm	L. H.	90,385	4,519,250			
46.	604(1)	Utility Manhole Type 1	Each	757,157	6,542,882			
47.	604(2)	Utility Manhole Type 2	Each	401,269	1,607,476			
48.	604(3)	Inlet, Type I	Each	1,039,600	27,029,600			
49.	604(4)	Inlet, Type II	Each	1,025,051	1,025,051			
50.	604(5)	Inlet, Type III	Each	1,025,051	10,250,510			
51.	604(6)	Inlet, Type IV	Each	1,085,888	8,687,104			
52.	604(7)	Grate Type I	Each	326,243	4,904,145			
53.	605(1)	20 cm. Parlor Conc. Pipe Inplace, Incl. Dnd Wall	L. H.	9,813	46,591,100			
54.	605(2)	Deodorant Junction Box Inplace	Each	17,061	626,525			
55.	606(1)	Galvanized Beam Type Guardrail & Post	L. H.	78,823	45,717,340			
56.	606(2)	Remove Existing Guardrail and Belocasts	L. H.	6,391	2,428,560			
57.	607(1)	Barbed Wire Fence	L. H.	12,110	50,862,000			
58.	609(1)	Concrete Curb Gutter, Type 1	L. H.	11,929	1,550,270			
59.	609(2)	Concrete Curb Gutter, Type 2	L. H.	25,415	25,160,850			
60.	609(3)	Concrete Delineation Strip	L. H.	7,360	8,096,000			
61.	609(4)	Concrete Median Barrier	L. H.	39,398	169,811,400			
62.	609(5)	Concrete Median Barrier Dnd Taper	Each	149,123	596,492			
63.	609(6)	Concrete Median Barrier Transition to Bridge	Each	695,439	4,172,634			
64.	619(1)	Rock Slope Protection	Sq. M.	15,811	79,053,000			
65.	622(1)	Grouted Rip-Rap 20 cm. Thick for Channel Lining	Sq. M.	8,251	255,781,000			
66.	622(2)	Grouted Rip-Rap	Sq. M.	39,886	15,954,400			
67.	623(1)	Stacey Control Monument	Each	67,796	3,296,576			
68.	624(1)	Placing Scraped Topsoil	Are	18,244	12,405,920			
69.	629(1)	Sodding	Are	81,800	98,160,000			
70.	630(1)	Concrete Rock Slope Protection	Sq. M.	18,456	15,687,600			
71.	631(1)	Roadway Marking, 10 cm. Striping	L. H.	767	34,745,100			
72.	631(2)	Miscellaneous Pavement Marking Words, Arrow, Etc.	Sq. M.	6,829	136,550			
73.	632(1)	Standard Road Sign, Type A	Each	22,287	244,574			
74.	632(2)	Standard Road Sign, Type B	Each	41,296	1,412,960			
75.	632(3)	Standard Road Sign, Type C	Each	41,296	2,119,340			
76.	632(4)	Standard Road Sign, Type D	Each	408,471	816,942			
77.	632(5)	Standard Road Sign, Type E	Each	48,754	486,262			
78.	632(6)	Non-Standard Road Sign No. 1	Each	742,550	742,550			
79.	632(7)	Non-Standard Road Sign No. 2	Each	247,550	247,550			
80.	632(8)	Non-Standard Road Sign No. 3	Each	309,927	309,927			

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PROJECT RECORD-ESTIMATE

Period to 8 Estimate to 9 Date January 29, 1982
Period Dates December 26, 1981 thru January 25, 1982

SIC CODE NO.	PAT ITEM NO.	ITEM-B	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	THIS ESTIMATE		TOTAL ESTIMATE		SIC CODE NO.
					Quantity	Amount	Quantity	Amount	
27	632101	Non Standard Road Sign No. 4	Each 253,175	253,175	-	-	-	-	-
27	632102	Non Standard Road Sign No. 5	Each 246,150	246,150	-	-	-	-	-
27	632103	Non Standard Road Sign No. 6	Each 217,237	217,237	-	-	-	-	-
27	632104	Remove Existing Single Post Signs Relocate	Each 32,210	471,625	-	-	-	-	-
27	632105	illumination System Complete, Gads	L.S.	27,497,200	-	-	-	-	-
27	632106	Traffic Signal System Complete, Gads	L.S.	45,221,900	-	-	-	-	-
27	634101	Utility Conduit 125 on PVC	L.M.	7,977	4,307,560	-	-	-	-
27	635101	Traffic Safety Plastic Cones	Each 6,685	648,509	-	-	60	601,100	-
27	635102	Strand Traffic Safety Metal Barricade	Each 20,301	2,030,207	-	-	50	1,015,150	-
27	635103	Traffic Safety Barricade/Sign, Type 1	Each 61,829	1,236,498	-	-	10	618,209	-
27	635104	Traffic Safety Barricade/Sign, Type 2	Each 61,359	632,490	-	-	10	632,490	-
27	635105	Portable Traffic Safety Barricade, Type A	Each 35,321	1,236,235	-	-	18	635,778	-
27	635106	Portable Traffic Safety Barricade, Type B	Each 35,344	1,078,330	-	-	15	539,190	-
27	635107	Portable Traffic Safety Barricade, Type C	Each 41,588	414,870	-	-	5	207,440	-
27	636101	Manhole Type A-1 for 60 on Culvert	Each 50,973	10,038,920	-	-	-	-	-
27	636102	Manhole Type A-1 for 80 on Culvert	Each 80,771	4,653,272	-	-	-	-	-
27	636103	Manhole Type A-1 for 120 on Culvert	Each 91,423	2,785,176	-	-	-	-	-
27	636104	Manhole Type B-1 for 60 on Culvert	Each 272,164	272,164	-	-	-	-	-
27	636105	Manhole Type B-1 for 80 on Culvert	Each 385,870	385,870	-	-	-	-	-
27	636106	Manhole Type B-1 for 120 on Culvert	Each 699,380	699,380	-	-	-	-	-
27	636107	Manhole Type A-2 for 60 on Culvert	Each 210,581	262,105	-	-	-	-	-
27	636108	Manhole Type A-2 for 80 on Culvert	Each 651,632	2,789,105	-	-	-	-	-
27	636109	Manhole Type A-2 for 120 on Culvert	Each 776,220	776,220	-	-	-	-	-
27	636110	Manhole Type B-2 for 60 on Culvert	Each 48,077	348,077	-	-	-	-	-
27	636111	Manhole Type B-2 for 80 on Culvert	Each 91,160	982,320	-	-	-	-	-
27	636112	Manhole Type B-2 for 120 on Culvert	Each 263,267	863,267	-	-	-	-	-
27	637101	Rey Well for Existing Pedestrian Box	(Each) 2,939,106	5,878,212	-	-	-	-	-
		000 Lump Sum Payment.							
		000 no. 3 Three Edge Bearing Test Machine.							1,295,266

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SECTION X APPENDIX

X. 5. STATUS OF FUNDS

I. DOLLAR FUNDS, ENGINEER'S CONTRACT

1-	Approved Dollar Value of Engineer's Contract plus Amendments 1 thru 9 ...	US\$	3,988,326
2-	Actual Dollar Funds Available from US/AID Loan	US\$	3,979,054*
3-	Amount of Services and Fee thru Invoice No. 89, July 1982	(-) US\$	<u>3,848,502</u>
	Dollar Funds Remaining as of July 31, 1982	US\$	130,552

II. RUPIAH FUNDS, ENGINEER'S CONTRACT

1-	Approved Rupiah Value of Engineer's Contract plus Amendments 1 thru 9 ...	Rp	1,555,628,569
2-	Amount of Services and Fee thru Invoice No. 101, July 1982	(-) Rp	<u>1,370,314,176</u>
	Rupiah Funds Remaining as of July 31, 1982	Rp	185,314,393

III. CONSTRUCTION CONTRACT

---	Approved Value of Contract	Rp	8,050,000,000
---	Value of Contract Change Orders Approved to Date	(-) Rp	<u>292,506,305</u>
	Approved Value of Contract	Rp	7,757,493,695

*Differences is due to banking charges.

CONSTRUCTION PROGRESS SCHEDULE

PT. ICC
INDONESIA CO
JAGORAWI

DESCRIPTION	QTY	DURATION (MONTH)	%	1981												1982					
				JOB												JOB					
				MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
CONCRETE	LS	9	5,516	0.672	0.837	0.912	0.937	0.947	0.957	0.967	0.977	0.987	0.997								
MAINTENANCE OPERATION	214,200 T	15	-																		
CLEARING AND GRUBBING REMOVAL OF OBSTRUCTION	LS	6	0.664	0.082	0.173	0.264	0.355	0.446	0.537	0.628	0.719	0.810	0.901								
UNCLASSIFIED EXCAVATIONS	208,000 CuM	11	5.984	0.308	0.616	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	
REMOVE AND REPLACE UNSUITABLE MATERIAL	72,600 CuM	5.8	2.244	0.180	0.360	0.540	0.720	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	
SOIL BORINGS	100 LM	2	0.125	0.062	0.062																
BRIDGE	LS	16.5	36.676	1.728	3.456	5.184	6.912	8.640	10.368	12.096	13.824	15.552	17.280	19.008	20.736	22.464	24.192	25.920	27.648	29.376	
PRECASTING	LS	7.5	-																		
REINFORCED CONCRETE PIPE	4,700 LM	7	0.598			0.196	0.392	0.588	0.784	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	
ROADWAY EMBANKMENT	95,800 CuM	17	1.376			0.120	0.240	0.360	0.480	0.600	0.720	0.840	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	
AGGREGATE BASE COURSE	31,800 CuM	14	6.010							0.127	0.254	0.381	0.508	0.635	0.762	0.889	0.916	0.943	0.970	0.997	
PAVING	62,292 TON	14	24.940										0.127	0.254	0.381	0.508	0.635	0.762	0.889	0.916	
CONCRETE MEDIAN BARRIER RAIL	4,300 LM	9	2.216							0.051	0.102	0.153	0.204	0.255	0.306	0.357	0.408	0.459	0.510	0.561	
STRUCTURE EXCAVATION	6,100 CuM	15	0.927	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.108	0.120	0.132	0.144	0.156	0.168	0.180	0.192	0.204	
REINFORCED CONCRETE PIPE (R.C.P)	1,840 LM	8	1.173			0.236	0.472	0.708	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	
REINFORCED CONCRETE BOX (R.C.B)	10 EACH	17	0.590	0.013	0.026	0.039	0.052	0.065	0.078	0.091	0.104	0.117	0.130	0.143	0.156	0.169	0.182	0.195	0.208	0.221	
MISC STRUCTURAL CONCRETE & REINFORCING STEEL	LS	12	0.698							0.058	0.116	0.174	0.232	0.290	0.348	0.406	0.464	0.522	0.580	0.638	
MISC BRIDGE FACILITIES	165 EACH	17	1.510							0.018	0.036	0.054	0.072	0.090	0.108	0.126	0.144	0.162	0.180	0.198	
ROAD SIDE AMPLIFICATIONS	LS	14	9.353							0.237	0.474	0.711	0.948	1.185	1.422	1.659	1.896	2.133	2.370	2.607	
PLANNED PROGRESS SCHEDULE			100.00%	1.171	1.897	2.584	3.271	3.958	4.645	5.332	6.019	6.706	7.393	8.080	8.767	9.454	10.141	10.828	11.515	12.202	
ACTUAL PROGRESS				1.67	1.89	2.90	3.68	4.49	10.18	12.75	13.66	13.33	13.33	13.00	13.00	12.06	12.19	12.24			
PERCENTAGE OF WORK COMPLETED PER DAY				0.04	0.05	0.08	0.10	0.12	0.25	0.31	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	

PROGRESS SCHEDULE



INDONESIAN CONSORTIUM OF CONSTRUCTION INDUSTRIES

JAGORAWI HIGHWAY PROJECT STAGE II

DATE: 20/11/1991
 BY: [Signature]
 CHECKED BY: [Signature]
 DESIGNED BY: [Signature]
 APPROVED: [Signature]
 PROJECT OFFICE
 DATE: 20/11/1991

1982														1983				% PROGRESS	
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
0.151	0.260	0.316																100	
0.406	0.507	0.544	0.553	0.543	0.526													85	
1.008	1.188	0.817	0.555	1.750	1.864	2.081	3.054	3.334	3.546	2.640	3.162							70	
0.009	0.054	0.030	0.017															60	
0.021	0.055	0.016	0.022	0.044	0.071	0.080	0.120	0.130	0.178	0.104	0.053	0.031	0.055					50	
0.022	0.058	0.101	0.255	0.328	0.485	0.718	0.784	0.718	0.627	0.558	0.428	0.282	0.088					40	
			1.152	1.180	1.930	2.043	3.128	2.813	2.555	2.707	1.680	1.282	0.387	0.517	0.317	1.690			35
0.011	0.018	0.153	0.270	0.254	0.372	0.404	0.322	0.342										30	
0.014				0.018	0.021	0.030	0.031	0.030										25	
0.157	0.111	0.111	0.024	0.001														20	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					15	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					10	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					5	
3.304	3.688	0.918	1.043	3.937	5.251	5.931	8.456	9.870	8.199	7.517	6.187	7.924	3.228	0.000	0.000	1.600	2.310	0	
12.925	12.927	31.252	24.015	18.716	11.912	69.788	18.282	12.514	4.850	51.962	12.269	82.433	9.761	59.154	96.000	37.690	100		
12.925	12.925	13.33	13.33	13.00	13.00	12.06	12.19	12.24											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

PT. ICCI
 PROGRESS SCHEDULE

APR 1992
 59