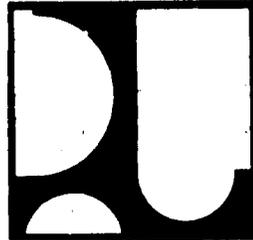


REPUBLIK INDONESIA

**DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA**



**JAGORAWI HIGHWAY
STAGE II**

**MONTHLY REPORT
SUPERVISION**

AUGUST 1982

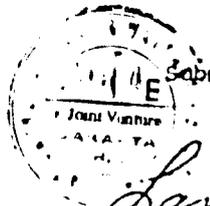
**AMMANN & WHITNEY - TRANS ASIA ENGINEERING ASSOCIATES INC.
& JOINT VENTURE**

CONSULTING ENGINEERING

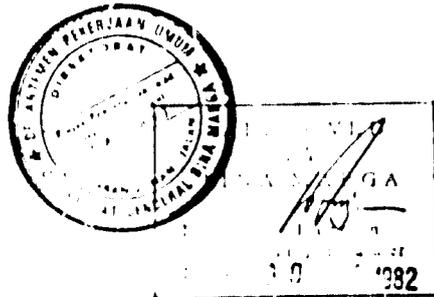
REPORT NO. 100

August 1982

JAGORAWI HIGHWAY PROJECT
CONSULTING SUPERVISION SERVICES

Submitted by :


Larry G. Buntin
LARRY G. BUNTEN
Engineer in Charge

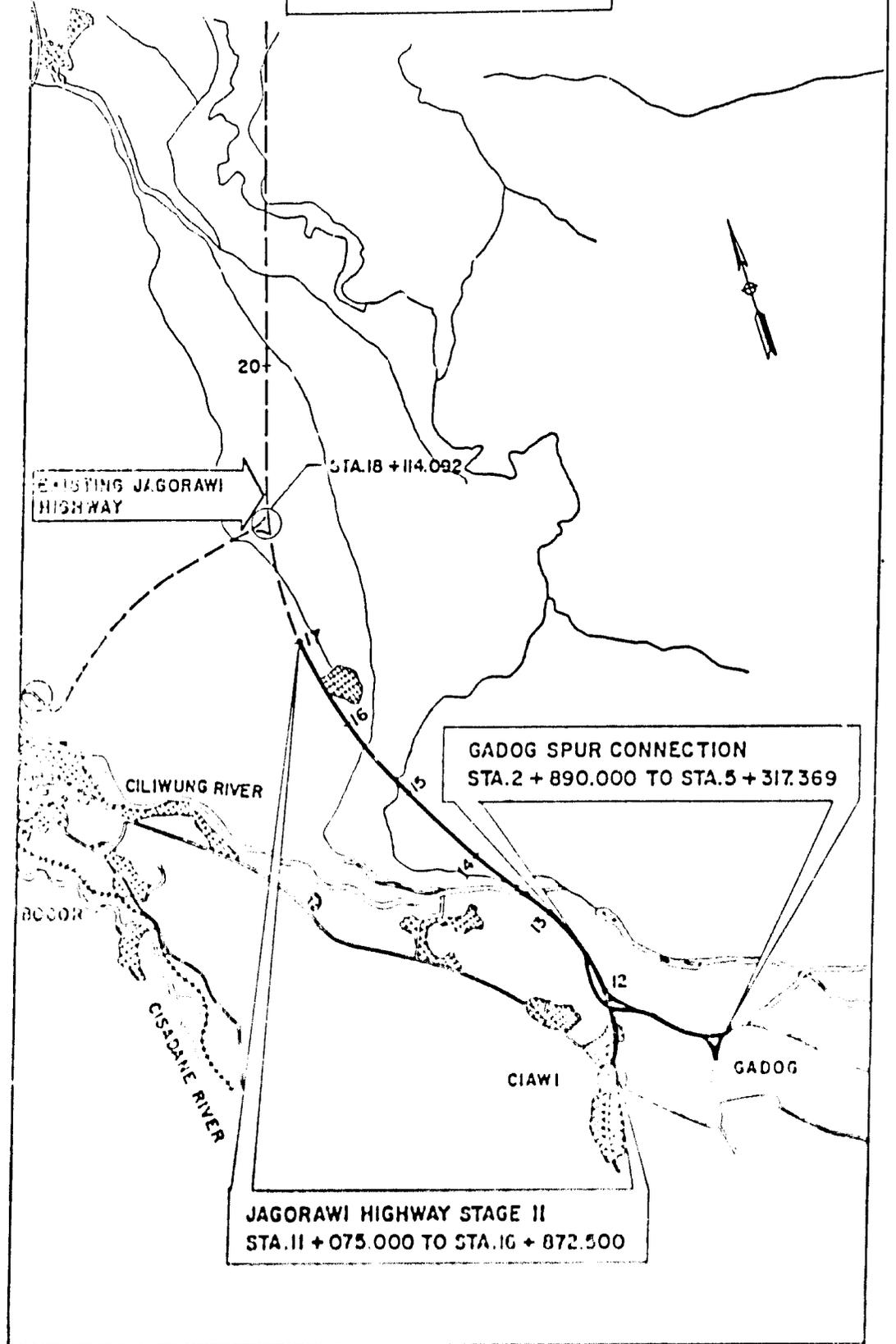


Prepared by :

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

BOCEK

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

Progress stands at 12.27 percent complete vs 76.05 percent scheduled. The Contractor is about 13 months behind schedule.

The concrete batching plant at Sentul was made operative and trial tests were completed August 30th.

Jasa Marga has advised that funding for the Project will become available in September.

Jasa Marga also advised that the construction contract and the Engineer's contract will be transferred from Bina Marga to Jasa Marga for administration.

The Engineer prepared a detailed work program and budget for completion of Jagorawi for the reduced scope of works suggested in the Engineer's earlier "cost savings report".

A formal proposal for redesign of bridges to incorporate use of structural steel I-girders was requested by Jasa Marga. The proposal was submitted by the Engineer during the reporting period.

The financial problems affecting the project appear to be nearing resolution thereby clearing the way for the Contractor to resume full scale construction activity -- possibly during September.

I. 2. MAINTENANCE

Trial tests of emulsion fog seal were performed on August 13th and August 25th. Emulsion was provided by Scan-Roads of Singapore. Results obtained during the second trials (August 25th) were excellent.

SECTION II PROBLEM AREAS

II. The two major problem areas are project financing and Contractor management and organization.

Jasa Marga stated that project financing should be available early in September. Jasa Marga further stated that they will require improvements in the Contractor's management and organization - probably by allowing ICCI to assign or subcontract the work to Consortium member companies.

Thus, productive work progress may resume as early as September.

SECTION III ADMINISTRATION

III. 1. SUBMITTALS/APPROVALS

The Engineer's Rupiah Invoice No. 102 for July was submitted and a full advance provided by Bina Marga. The Engineer's Dollar Invoice No. 89 for July was submitted and has been approved by Bina Marga. The Contractor's did not submit an invoice for August.

The Engineer's Amendments No. 10 and No. 11 providing services thru December 1982 were approved by Bina Marga during this report period.

At the request of Jasa Marga, the Engineer submitted a work plan, budget, detailed cost and quantities estimate for completing Jagorawi.

A formal proposal for redesign of bridges to incorporate steel I-girder was requested by Jasa Marga and has been submitted by the Engineer.

III. 2. DECISIONS

Jasa Marga stated that finance and administration of the Jagorawi construction project, including the Consultant's contract, will be assigned to Jasa Marga. Formal written notification to concerned parties is pending.

Jasa Marga has also agreed in principle to proceed with the reduced scope of work proposed in the Engineer's "cost savings report". However, formal written approval for these changes is pending.

III. 3. MAJOR CONFERENCES

1) MEETING WITH JASA MARGA OF AUGUST 2ND

A meeting attended by Bina Marga's Project Manager, the Engineer and representatives of Jasa Marga was held on August 2, 1982. The meeting was chaired by Mr. Budiharto, Director of Finance for Jasa Marga.

SECTION III ADMINISTRATION

III. 3. MAJOR CONFERENCES (Cont'd)

1) MEETING WITH JASA MARGA OF AUGUST 2ND (Cont'd)

Jasa Marga stated that an agreement between Bina Marga and Jasa Marga had been reached wherein both finance and administration of the Jagorawi Project would be assigned to Jasa Marga.

Jasa Marga stated that funds for Jagorawi had been obtained from a Government loan and additional funds will become available after bonds are sold. The sale of bonds is scheduled to begin November of this year. The initial funding should be available in September.

Budget for Jagorawi thru 1984 is based on the reduced scope of work proposed by the Engineer. Funding is sufficient to cover engineering supervision and bridge redesign.

It was agreed that formal letters of notification would be sent to the Contractor, Engineer and US/AID Jakarta. (See copy of letter to the Contractor at the end of this section of the report).

The Engineer was requested to prepare an annual work program and budget for the reduced scope of work. A formal proposal for bridge redesign was also requested.

2) MEETING WITH JASA MARGA OF AUGUST 11TH

A follow-up meeting with Jasa Marga was held on August 11, 1982. During this meeting, the Engineer presented a draft of the suggested work program and budget.

Jasa Marga requested that the cost of widening the existing Taman Mini Toll Plaza be included in the work program and budget.

SECTION III ADMINISTRATION

III. 3. MAJOR CONFERENCES (Cont'd)

2) MEETING WITH JASA MARGA OF AUGUST 11TH (Cont'd)

The Engineer reported that ICCI's current contract unit prices were generally higher than the average bid unit prices received for the Jakarta-Cikampek toll road.

Jasa Marga stated they would require improvements in ICCI's organization and management, and if ICCI proposed to assign or sub-contract the work to Hutama Karya (a Consortium member company) this would be a consideration.

The Engineer presented his formal proposal for bridge redesign at the meeting.

3) MEETINGS WITH JASA MARGA AND SCAN-ROADS OF AUGUST 10TH AND 16TH

On August 10th and again on August 16th, meetings were held with Jasa Marga, Bina Marga, representatives of Scan-Roads and the Engineer in preparation for fog seal testing (see Section VII, MAINTENANCE).

III. 4. OFFICIAL VISITORS

There were no official visitors this month.

III. 5. FINANCIAL OVERRUNS/UNDERRUNS

Following is a summary of annual budget and estimated construction cost savings prepared by the Engineer at Jasa Marga's request.

SECTION III ADMINISTRATION

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

<u>Fiscal year</u>	<u>Annual Budgets</u> (Millions of Rupiahs)		<u>Accum. Amount</u>
	<u>I t e m</u>	<u>Amount</u>	
1982	Contractor's outstanding invoices & remainder of advance	1,089.9	
	Engineering costs	312.1	
	Stage I work program	<u>1,003.7</u>	2,405.7
1983	Stage II work program	2,012.8	
	Engineering costs	<u>319.5</u>	2,332.3
1984	Stage III work program	1,638.6	
	Contingency for quantity overruns, CCOs, adjustments & claims (4.3%)	300.0	
	Engineering costs	<u>246.3</u>	<u>2,184.9</u>
T o t a l			6,622.8

CONSTRUCTION COST SAVINGS
(Millions of Rupiahs)

Original contract amount	8,050.0
a) invoices paid to date	892.5
b) invoices outstanding	1,089.9
c) Stage I work program	1,003.7
d) Stage II work program	2,012.8
e) Stage III work program	1,638.6
f) contingency (4.3%)	<u>300.0</u>
	<u>(-)6,537.5</u>
Est'd construction cost savings	1,112.5*

* Rupiah 360 million for widening Taman Mini Toll Plaza is included in the budget and cost savings.

We again advise that ICCI's guaranties for the advanced payment and project performance have elapsed and should be renewed before additional payments are provided.

SECTION III ADMINISTRATION

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

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	89,119,176	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
10	February thru July	33,686,288	0	51,750,962
-	August	0	0	0
		<u>1,982,307,763</u>	<u>892,519,417</u>	<u>951,266,100</u>

III. 6. . . . US/AID REQUIREMENTS

The Dollar Loan Agreement states that Bina Marga will be the Agency administering the Loan, coordinating with AID officials, etc. If the Engineer's contract is to be assigned to Jasa Marga, then Bina Marga should request official approval from US/AID Jakarta. Also, the design for Jagorawi Stage II was financed by US/AID, and the plans were previously approved by AID. It is suggested that Bina Marga request formal AID approval for the cost saving design changes now pending.



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

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

Lewwinutug, August 6, 1982.

Ref. No : BM - 32/C

To :
 President Director of
 P.T. Indonesian Consortium of
 Construction Industries
J a k a r t a.

Dear Sir,

Subject : Hand over of responsibility of the construction
 of Jagorawi Highway.

Reference is made to the Contract No. 06/CTR/DN/BM/81 dated May 1, 1981 for the construction of Jagorawi Highway (Stage II) between Directorate General of Bina Marga and P.T. ICCI.

We would like to inform you that based on the letter of instruction issued by Directorate General of Bina Marga referenced no. 72/SPRIN/BM/1982 dated July 6, 1982 and its following letter referenced no. AP 01 22 02 dated July 9, 1982, the responsibility of the construction of Jagorawi highway (stage II) had been handed over by Bina Marga to P.T. (Persero) Jasa Marga.

It means that P.T. (Persero) Jasa Marga will be fully responsible for the construction of Jagorawi highway (stage II) replacing Directorate General of Bina Marga.

An amendment of the present contract covering such replacement shall have to be made soon.

Your understanding on the above matter is appreciated.

Yours faithfully,

[Signature]
 Parmin

Project Manager



RECEIVED
 AUG 7 1982
 ATTENTION & UNIT 1227
 TRANS-ASIA
 a Joint Venture

C.c. :

1. President Director of P.T. (Persero) Jasa Marga
2. Director of Construction / Bina Marga
3. Kasubdit. Pengendalian Pelaksanaan.
4. Chief of Construction Division PT. Jasa Marga (attention Mr. Boediharto)
5. Ammann & Whitney Trans Asia Engineering Assoc. Inc.
6. F i l e.

7a

SECTION IV ENGINEERING PROGRESS

IV. Our office staff concentrated on recalculating quantities and costs for the annual work program and budget.

There was a minor amount of bridge excavation work in progress to occupy the Bridge Section.

The Materials and Quality Control Section observed calibration of the concrete batching plant. Calibration was completed on August 10, 1982. A trial run of the plant was made on August 30, 1982. Aggregate and sand sampled during the trial run complied with specifications.

The Engineer issued a warning to the Contractor that cement stored in the scale house might be damaged by moisture and if so, the cement could not be used and would not be paid for.

SECTION V PROGRESS

V. 1. PROGRESS

Progress consisted of minor bridge excavation at Bridge Station 13 and about 12 M³ of Class C concrete placed at Bridge Station 11. Estimated value of this work is about Rp 2 million representing 0.03% progress.

V. 2. RAINFALL

Rainfall for the last 3 months has been far below average. It is unfortunate that the Contractor is not progressing the work during this excellent weather.

RAINFALL DURING AUGUST

	<u>August</u>	<u>Ave. for Project Location</u>
--- No. rain days	7	10.8
--- Max. rain in 24 hours	46.5 mm	-
--- Total rainfall during the month	102.8 mm	246.7 mm
--- Lost working days due to rain	4	-
--- Accumulative lost working days	139	-

V. 3. PROGRESS VS SCHEDULE

Progress stands at 12.27 percent complete vs 76.05 percent scheduled. Scheduled progress for August was 8.50 percent, so the slippage was $8.50 - 0.03 = 8.47$ percent. The Contractor is about 13 months behind schedule.

VIII. 1. CONSTRUCTION ACTIVITIES

a) Engineer's Housing

Repair of defects at one new house were undertaken, and work on installation of the RCP for the Engineer's access road resumed.

Rather than use a small truck crane to place the pipe, the Contractor is lowering the pipe by use of a loader and cable. Manpower is used to connect sections of pipe. Because proper equipment is not available, the operation is very inefficient.

b) Bridges

Excavation for pier 3 at Bridge Station 13 continued. A new excavator was mobilized; however, this excavator is too small for the size of rock encountered. A pile hammer and leads were remobilized and were being installed on the crane at the end of the month.

Protective concrete used to cover driven H-piles at Bridge Station 11+932, pier 7 was placed on August 30th. Field placing of the concrete was achieved by use of a concrete bucket. The operation was poorly organized. There is a lack of communications between the Contractor's bridge site and the concrete batch plant at Sentul. Two concrete transit mixer trucks were mobilized. One truck is in very poor running condition.

c) Concrete Batch Plant

The Contractor, after various furtive attempts to convince the Engineer that scales were operable, finally hired a scale mechanic who cleaned the scales. The weigh scales were then calibrated on August 10th.

SECTION VI CONTRACTOR

VIII. 1. CONSTRUCTION ACTIVITIES (Cont'd)

c) Concrete Batch Plant (Cont'd)

Various problems were encountered in attempting to perform a trial operation -- 1) the well where the Contractor planned to obtain water was found to be dry, so water is being trucked from the river, 2) cement left in the auger between the cement silo and the plant caked and became hard so the auger would not turn. The Contractor fabricated a small bin and decided to use bagged cement which is hand fed into the hopper, 3) one of the transit mixers has to be towed in order to start, 4) the Contractor discovered he has not made a cement storage warehouse so cement is being stored in the scale house which has a leaky roof.

VIII. 2. EQUIPMENT

The concrete batch plant owned by Hutama Karya and two transit mixer trucks also owned by Hutama Karya were mobilized. The Contractor has not submitted an agreement with Hutama Karya for use of this equipment or plants. A pile driver and leads arrived and a new Hitachi excavator was mobilized.

Following is a listing of equipment on site :

APPROVED EQUIPMENT LIST					EQUIPMENT MOBILIZED THRU AUGUST 1982		
No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	N A M E	R E M A R K S
1	Ball Dozer	1	320 HP	Komatsu D-155	1	Komatsu D-155	Bina Marga
2	Ball Dozer	2	220 HP	Komatsu D-85	2	Cat-D7G	Bina Marga
3	Ball 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.m.	Fiat Allis	2	Fiat Allis 605-B	Ret'd from CSS Project, 8/30/1982
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	-	---	---
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.	Intn. Jumbo/Pool	1	Poclain-90 (0.8 cu.m)	Pusbinal (Ret'd 8/16/1982)
16	Back Hoe	1	1.6 cu.m.	Intn. Jumbo/Pool	-	Hitachi (H 07-05 (1.8 cu.m)	Hut. Karya-Takenaka J.O. (8/18/1982)
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	50 ton/hr.	K a n g W o n	2	K a n g W o n	(Bina Marga (incl. Gen. Sets)
20	Sand Washer	2	---	S a k a i	-	---	---
21	Water Pump	10	ø 4"	Y a n 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

APPROVED EQUIPMENT LIST					EQUIPMENT MOBILIZED THRU AUGUST 1982		
No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	NAME	REMARKS
22.	Generator, Set	2	90 KVA	Mercedesz	-	--	-
23.	Generator, Set	1	50 KVA	Mercedesz	1	Perkins	PT ICCI
24.	Generator, Set	3	10 KVA	Kubota	3	Yanmar, 7.5 KVA (2) Stamford 3152, 25 KVA	PT ICCI
25.	Asphalt Mixing Plant	1	90 ton/hr	Simesse	-	--	-
26.	Asphalt Finisher	2	60-100 ton/hr	Allat C-300	-	--	-
27.	Asphalt Hand Sprayer	2	600 liters	Locai	-	--	-
28.	Asphalt Distributor	1	4,000 liters	Marini	-	--	-
29.	Pavement Breaker	6	23/64 liters	BR-20-Ingersoll Rand	3	TTB-60	ICCI (1 ea borrowed by ICCI's High Rise project on April 30th).
30.	Pavement Saw	1	80 m/sec.	Wacker	-	--	-
31.	Road Marking Machine	1	--	Marini	-	--	-
32.	Aggregate Drier	2	45 tons	Sakai/Tanaka	-	--	-
33.	Power Broom	1	20 HP	Mitsubishi	-	--	-
34.	Chips Spreader	1	--	Etnire	-	--	-
35.	Compressor	2	600 cfm	Broomwade	1	Broomwade - Stamford STV-25, 250 cfm	PT ICCI
36.	Mechanical Hand Stamper	10	--	TV-808	2	Mikasa MTR-120	PT ICCI
37.	Spreader Box	1	--	Etnire	-	--	-
38.	Aggregate Cold Bins	4	5 cu.m.	Local	-	--	-
39.	Forklift	1	3.5 tons	Komatsu	1	TG4-VD-30	ICCI (borrowed by ICCI's High Rise project on February 29th).
40.	Truck Crane	2	40 tons	P & H Linkbelt	-	--	-
41.	Crawler Crane	2	75 tons	P & H 550	3	2 ea P&H 550 (50 tons) 1 ea IS-78 J (20 tons)	Bina Marga (1ea P&H-550, Aug. 1982) Bina Marga
42.	Tire Crane	2	10 tons	Halla	-	--	-

APPROVED EQUIPMENT LIST					EQUIPMENT MOBILIZED THRU AUGUST 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	--	1	Mitsubishi M-14S	P.T. Bolang (Arrv'd 8/29/1982)
44.	Pile Hammer	1	1200-1500 skg	P & H Linkbelt	-	--	
45.	Pile Hammer	1	3000-3500 skg	P & H Linkbelt	1	Mitsubishi M-14S	P.T. Bolang (Arrv'd 8/29/1982)
46.	Batching Plant	1	35 cu.m./hr	Lambert	1	Lambert 20 cu.m./hour	Hutama Karya (Arrv'd 8/30/1982)
47.	Concrete Transit Mixer	4	5 cu.m.	Isuzu	2	Hino 5 cu.m	Hutama Karya (Arrv'd 8/30/1982)
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	---	4	Conc. Bucket 1,2 cu.m.	Hutama Karya (Arrv'd 8/30/1982)
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 1 1/2"	M i k a s a	4	M i k a s a	2 ea PT ICCI 2 ea ICCI's High Rise P. (8/25/1982)
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 AUGUST 1982		
No.	DESCRIPTION	QT'Y	CAPACITY	BRAND NAME/TYPE	QT'Y	N A M E	R E H A P 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>FOUNDATIONS EQUIPMENT</u>							
61.	PCP Form Ø 60 cm	10	---	Local	10	Local	PT ICCI
62.	PCP Form Ø 80 cm	5	---	Local	5	Local	PT ICCI
63.	PCP Form Ø 120 cm	1	---	Local	1	Local	PT ICCI
64.	Ext. Conc. Vibrator	4	---	Wacker Arm 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	Talano	-	---	---
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	Penguin	PT ICCI
80.	Bathing Plant	-	---	---	2	Philips Hall. lights	PT ICCI
81.	Welding Transformer	-	---	---	1	Viking D&W 14 (700 kg) ,Bergin, 300 Amp.	PT ICCI

PT ICCI (Borrowed by ICCI's High Rise project on April 30th).

SECTION VI CONTRACTOR

VII. 3. . . . PERSONNEL

A listing of Contractor personnel for August follows.

ROADWAY PROJECT STAGE II

MONTHLY PERSONNEL REPORT

AUGUST 1982

NO	POSITION	NUMBER LEVEL	TECHNICAL STAFF							ADMINISTRATIVE & COST ACCOUNTING				TOTAL	
			CIVIL	MECHANIC	ELECTRIC	OPERATOR	DRIVER	LABOR	BOOK KEEPER	ASS. MGR.	TYPIST	OFF. DRIVER	HELPER		
I	PROJECT MANAGER :	1	1	-	-	-	-	-	-	-	-	-	1	-	3
II	OFFICE ENGINEER :														
	2.1. Office Engineer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2.2. Design & Planning Engineer	1	2	-	-	-	-	-	-	-	-	-	-	-	-
	2.3. Cost Engineer	1	1	-	-	-	-	-	-	-	-	-	1	5	9
	2.4. Contract Adm.	-	1	-	-	-	-	-	-	-	-	-	-	-	2
2.5. Surveying & Progress report	1	-	-	-	-	-	4	-	-	-	-	-	-	1	6
III	FIELD ENGINEER :														
	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	
			8	15	7	1	4	-	5	-	4	-	2	12	58

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PT-ICCI
ROADWAY IMPROVEMENT PROJECT STAGE II

MONTHLY PERSONNEL REPORT

AUGUST 1982-

NO	POSITION	RANGE	LEVEL	TECHNICAL STAFF						NON-TECHNICAL STAFF					TOTAL
				CIVIL	MECHANIC	ELECTRIC	OPERATOR	DRIVER	LABOR	BOOK KEEPER	ASS. SUPV.	TYPIST	OFF. DRIVER	HELPER	
	Sub Total 1		8	15	7	1	4	-	5	-	4	-	2	12	58
IV	<u>PROCUREMENT & LOGIS- TIC :</u>														
	4.1. Procurement & Supply Manager		1	-	-	-	-	-	-	-	-	-	-	-	1
	4.2. Procurement & Purchasing		-	-	-	-	-	-	-	-	-	-	-	-	-
	4.3. Storage & Supply		-	3	-	-	-	-	-	-	-	-	-	-	-
	4.4. Transportation		-	-	-	-	-	-	-	1	-	-	-	-	4
V	<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
VI	<u>OTHERS :</u>														
	6.1. Labor Supplier		-	-	-	-	-	-	-	-	-	-	-	-	-
	6.2. On The Job Training		-	-	-	-	7	2	-	-	-	-	-	-	9
	6.3. Operator From P.U. (PUSBINAL)		-	-	-	1	-	-	-	-	-	-	-	-	1
	Total :		10	20	7	1	12	2	5	1	7	1	3	21	90

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REMARK :
 Say :

APPROVED BY :

[Signature]
 Ir. Nugro Subarto
 Project Manager Road

CHECKED BY :

[Signature]
 Drs. Julius
 Chief, Adm

PREPARED BY :

[Signature]
 Bambang Singgih
 General Affairs

SECTION VII MAINTENANCE

VII. Scan-Roads delivered 20 barrels of pre-mixed emulsion to Jasa Marga for trial fog seal tests. Fog seal was placed at Station 18 southbound lanes on August 13th. Spread rates for the first two trials was in excess of 1 liter per square meter -- far too heavy as excessive running occurred. This trial was supervised by a representative of Scan-Roads.

Additional trials were made at the Bogor Toll Plaza on August 25th. A spread rate of 0.35 liters per square meter gave best results. Traffic was placed on the fog sealed areas after about 3 hours. The Engineer considers the second trials to be very successful and recommends that Jasa Marga proceed with the fog seal program using the technique employed during the second trials.

SECTION VIII PERSONNEL

VIII. 1. . . . ENGINEER

EXPATRIATE MANMONTH STATUS
(Through Statement No. 90)

	(1)	(2)	(3)	(4)	(5)	(6)
<u>Position</u>	<u>M-M Thru Aug. '82</u>	<u>M-M Approved by Contract</u>	<u>M-M per Amnd. 10 Pending</u>	<u>Total App'd M-M (2+3)</u>	<u>M-M Remaining (4-1)</u>	<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	106.15	102.50	+ 8.30	110.80	4.65	Dec. 31, '82
SEN. BRIDGE ENGINEER	67.34	64.00	+ 6.10	70.10	2.76	Nov. 21, '82
SEN. CONST/PAV'T ENGR.	11.76	15.00	+ 0.30	15.30	3.54	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	-
	574.21	589.50	(-) 0.80	588.70	11.62	-

Note : Manmonths shown are contained in approved Amendment No. 10.

SECTION VIII ... PERSONNEL

VIII. 2. INDONESIAN PERSONNEL

One person was added to 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. |
| 14. Mr. Dalimin A.R. | Concrete Batching Plant In-
spector, August 4, 1982. |

OFFICE TECHNICAL PERSONNEL

- | | |
|------------------------|--|
| 15. Mr. Akhmad Khudori | Office Engineer (Archicons),
September 2, 1980. |
| 16. Mr. Parmono | Draftsman (Archicons),
October 2, 1980. |
| 17. Mrs. Widiyaningsih | Highway Technician,
June 8, 1981. |

SECTION VIII ... PERSONNEL

VIII. 2. INDONESIAN PERSONNEL (Cont'd)

ADMINISTRATIVE PERSONNEL

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

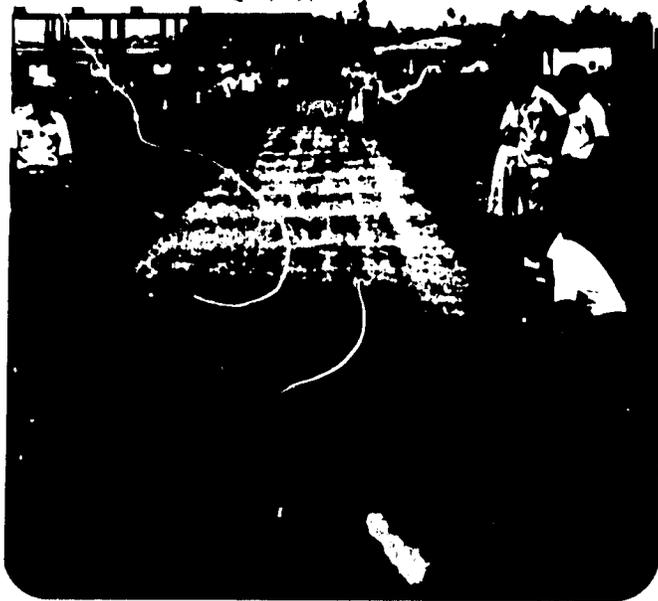
This month	32
Previous	<u>814</u>
Total 846	
Authorized Amendment No. 11* thru August 1982	902

VEHICLE MONTHS

Expended thru August 1982	209
Authorized by Amendment No. 11*	216

SECTION IX

CONSTRUCTION PHOTOS



Fog seal at Bogor Toll



Distributor Trucks

SECTION X

APPENDIX

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	Unit Price Increases.	Aug. 3, 1982
2.	Bina Marga	Bank Guarantee.	Aug. 3, 1982
3.	PT ICCI	Backhoe & the specified depth.	Aug. 4, 1982
4.	PT ICCI	Your Guidance.	Aug. 4, 1982
5.	PT ICCI	Concrete Seal.	Aug. 4, 1982
6.	PT ICCI	Tiga Roda Type 1 Cement.	Aug. 4, 1982
7.	PT ICCI	Engineer's Office & Housing.	Aug. 4, 1982
8.	PT ICCI	Concrete Batching Plant at Sentul.	Aug. 4, 1982
9.	PT ICCI	Request for Monthly Rupiah Progress Payment No. 9, Invoice No. 10, Jagorawi Highway Project Stage II.	Aug. 4, 1982
10.	Eka Putera	Soil Test.	Aug. 5, 1982
11.	Bina Marga	P & H Crusher Crane's Reparation Costs.	Aug. 6, 1982
12.	Bina Marga	Hand Over of Responsibility of the Construction of Jagorawi Highway.	Aug. 6, 1982
13.	PT ICCI	Batching Plant, Scale Calibration.	Aug. 9, 1982
14.	PT ICCI	Calibration Test Report.	Aug. 11, 1982
15.	PT ICCI	Claim on Bar Reinforcing Steel and Mobilization Cost.	Aug. 12, 1982
16.	Bina Marga	Redesign Jagorawi II.	Aug. 12, 1982
17.	Bina Marga	Approved Engineer's Dollar Invoice No. 89/1982.	Aug. 13, 1982
18.	Bina Marga	Cost for Engineer's Office and Housing.	Aug. 14, 1982
19.	PT ICCI	Preparations for Class AA Concrete.	Aug. 19, 1982
20.	PT ICCI	Monthly Personnel Report.	Aug. 20, 1982

SECTION X APPENDIX

X. 1. INCOMING CORRESPONDENCE (Cont'd)

<u>No.</u>	<u>FROM</u>	<u>SUBJECT</u>	<u>D A T E</u>
21.	PT ICCI	Proposal Shop Drawing for Reinforcement Design of Headwall Type A-3.	Aug. 20, 1982
22.	PT ICCI	Rainfall Report for July 1982.	Aug. 23, 1982
23.	PT ICCI	Preparation for Concreting.	Aug. 25, 1982
24.	PT ICCI	The measurement of Pier 7 Bridge Station 11+932.	Aug. 25, 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	Submittal of Engineer's Dollar Invoice No. 89 for July.	Aug. 2, 1982
2.	Bina Marga	Bank Guarantee.	Aug. 4, 1982
3.	Citibank	Request to Establish Bank Guarantee.	Aug. 4, 1982
4.	Bina Marga	Resubmittal of Rupiah Invoice No. 101.	Aug. 4, 1982
5.	Citibank	Request to Establish Bank Guarantee.	Aug. 6, 1982
6.	Citibank	Account No. 0231347 for Ammann & Whitney/Trans-Asia Engineering Associates, Inc.	Aug. 6, 1982
7.	Bina Marga	Additions to Engineer's Office and Housing.	Aug. 6, 1982
8.	JV NYC	Weekly Administrative Report No. 383.	Aug. 7, 1982
9.	PT ICCI	Engineer's Housing.	Aug. 9, 1982
10.	Bina Marga	Submittal of Proposal for Redesign.	Aug. 11, 1982
11.	Citibank	Account No. 0231347 for Ammann & Whitney/Trans-Asia Engineering Associates, Inc.	Aug. 11, 1982
12.	PT ICCI	Calibration of Concrete Batch Plant Weigh Scales.	Aug. 12, 1982
13.	Bina Marga	Submittal of Bank Guarantee for Remaining Advance Payment.	Aug. 12, 1982
14.	JV NYC	Transmittal of Approved Dollar Invoice No. 89 for July.	Aug. 13, 1982
15.	Bina Marga	Submittal of Work Plan, Budget and Bid Price Comparison Report for Completion of Jagorawi.	Aug. 13, 1982
16.	Bina Marga	Submittal of Engineer's Rupiah Invoice No. 102 for July.	Aug. 13, 1982
17.	PT ICCI	Rainfall Report for July.	Aug. 14, 1982
18.	JV NYC	Weekly Administrative Report No. 389.	Aug. 14, 1982

SECTION X APPENDIX

X. 3. OUTGOING CORRESPONDENCE (Cont'd)

<u>No.</u>	<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
19.	PT ICCI	Concrete Batching Plant Trial.	Aug. 18, 1982
20.	JV NYC	Rupiah Accounting Reports for July -- Jagorawi Project.	Aug. 19, 1982
21.	PT ICCI	Trial Operations of Concrete Batch Plant.	Aug. 20, 1982
22.	Bina Marga	Transmittal of Contractor Rupiah Invoice No. 10.	Aug. 21, 1982
23.	JV NYC	Weekly Administrative Report No. 390.	Aug. 21, 1982
24.	PT ICCI	Payments for Reinforcing Steel and Mobilization.	Aug. 23, 1982
25.	Bina Marga	Submittal of Engineer's Monthly Supervision Report No. 99 for July 1982.	Aug. 24, 1982
26.	Bina Marga	Acknowledgement of Advance.	Aug. 24, 1982
27.	PT ICCI	Engineer's Housing.	Aug. 24, 1982
28.	PT ICCI	Plant Bridges.	Aug. 24, 1982
29.	PT ICCI	Trial Operations of Concrete Batching Plant.	Aug. 25, 1982
30.	Bina Marga	Acknowledgement of Advance.	Aug. 26, 1982
31.	PT ICCI	Protecting Cement.	Aug. 27, 1982
32.	PT ICCI	Shop Plan for Type A-3 Headwall.	Aug. 28, 1982
33.	JV NYC	Weekly Administrative Report No. 391.	Aug. 28, 1982
34.	Mr. Saman	Promotion.	Aug. 30, 1982
35.	Mr. Susilo	Promotion.	Aug. 30, 1982
36.	Mr. Dalimin	Letter of Appointment.	Aug. 30, 1982
37.	Bina Marga	Report of Fog Seal Test.	Aug. 31, 1982

P.T.  JAGORAWI HIGHWAY PROJECT STAGE II.
COMPLEX BINA MARGA NO. 9
BARANANG SIANG, BOGOR. PHONE 26854
PT. INDOONESIAN CONSORTIUM OF CONSTRUCTION INDUSTRIES

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/157.

Bogor, August 4, 1982.

Directorate General Bina Marga
Jalan Pattimura no 20
Kebayoran Baru, Jakarta.

Through : Mr. Larry G. Buntan
Engineer in Charge
Ammann & Whitney, Trans - Asia
A joint Venture.

Subject : Request for Monthly Rupiah.
Progress Payment no 9, Invoice no 10
Jagorawi Highway Project Stage II

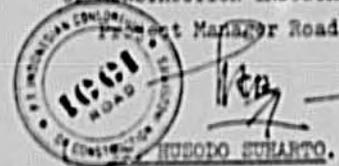
Dear Sirs,

In accordance with the Special Provisions 109.11 of the contract, we submit the Monthly Rupiah Progress Payment no 9, Invoice no 10 together with the related documents, covering the period from January 26, 1982 up to July 25, 1982, the total amount requested in this Invoice as follows :

Total amount : Rp 33,040,029.--

Your earliest approval and payment will be highly appreciated.

Very truly yours,
PT. INDOONESIAN CONSORTIUM
OF CONSTRUCTION INDUSTRIES



Encls : 7 sets of estimate no 9
and enclosures.

HS/Erb.-



REPUBLIK INDONESIA
DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA

INVOICE
AND
MONTHLY CERTIFICATE OF PERFORMANCE

Project : JAGORAWI HIGHWAY STAGE II	Date : August 4, 1982
Contract : No. 06 / QTR / DN / BM / 81	Pay Estimate No. : 9
Contractor : INDONESIAN CONSORTIUM OF CONSTRUCTION INDUSTRIES.	RUPIAH : Invoice no 10
Engineer : AMMANN & WHITNEY TRANS ASIA ENGINEERING ASSOC. INC.	Remarks : Progress Payment January 26, 1982 thru July 25, 1982.

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

Description	RUPIAH TOTAL
Total Amount of Work Completed	Rp 919,261,531.--
Total Amount Previously Credited	Rp 878,968,812.--
Total Amount Being Invoiced for Payment	Rp 40,292,719.--
as 10 % Retention	Rp 4,029,272.--
Less 15 % Advance Payment	Rp 4,029,272.--
Total Amount to be deducted	Rp 8,058,544.--
Sub total	Rp 32,234,175.--
Add 2.5 % PPN tax.	Rp 805,854.--
Total Amount to be paid to the Contractor	Rp 33,040,029.--
Separate Total Value of the Equipment and Materials delivered and Services performed under the Contract.	Rp 969,025,138.--
Separate Total Value since the date of the Previous Invoices of Goods delivered and Services Performed.	51,750,962.--

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 Contractor has fully complied with the terms and conditions of the Contract, including the Plans and Specifications.


Husodo Suharto
HUSODO SUHARTO.
Project Manager
JAGORAWI HIGHWAY STAGE II PROJECT

INVOICE RECEIPT

The Engineer acknowledges receipt of Indonesian Consortium of Construction Industries.
Invoice No. 10 covering Pay Estimate No. 9
on the 5 day of AUG at hours.

Larry G. Buntin
Engineer in Charge
JAGORAWI HIGHWAY STAGE II PROJECT
Date : AUG 21 1982

ENGINEER CERTIFICATION OF PERFORMANCE

- The services (or equipment and materials) for which payment requested has been satisfactorily delivered;
- The costs there of are properly payable in accordance with the terms of the Contract;
- Any reports or recommendations required under the terms of the Contract have been received and are in accordance with the terms of the Contract;


Larry G. Buntin
LARRY G. BUNTEN.
Engineer in Charge
JAGORAWI HIGHWAY STAGE II PROJECT

Approved for Payment	1. Date :	2. Date :
	PARMIN BRE. Project Manager JAGORAWI HIGHWAY STAGE II PROJECT	Ir. MOELIA AIDA. Director of Construction JAGORAWI HIGHWAY STAGE II PROJECT

LANCASHIRE
HIGHWAY PROJECT
ST 202 11

PROJECT RECORD-ESTIMATE

Contract No. 9 Schedule No. 10 August 4, 1982.
Contract Dates Jan. 26, 1982 thru July 25, 1982.

SECTION
0001

Amount in Dollars
State of New York

LINE NO.	ITEM NO.	ITEMS	UNIT	CONTRACT PRICES	ORIGINAL AUTHORIZED AMOUNT	1982 ESTIMATE		TOTAL ESTIMATE		MILEAGE NO.
						Quantity	Amount	Quantity	Amount	
1	000100	Rehabilitation	L.S.	-	269,740.577	-	-	-	-	-
2	000101	Inspection's Facilities	L.S.	-	120,535.450	-	-	3333	89,913,659	-
3	000102	-----	L.S.	-	-	-	-	9400	113,808,239	-
4	000103	-----	L.S.	-	-	-	-	-	-	-
5	001101	Clearance and Grading	Yds	16,400	11,155,080	20	308,120	1,09402	17,989,506	-
6	002101	Remove Existing Guarded or Issue Rip-Up	Cu.Yd.	11,456	4,592,460	-	-	-	-	-
7	002102	Remove Existing Bermsills	Each	99,728	897,552	106	121,436	106	121,436	-
8	002103	Remove Existing Mass Walls	Each	718,392	1,436,784	-	-	-	-	-
9	002104	Remove Existing Bridge Gully Spill Sta 1+000.4	L.S.	-	3,280,251	-	-	-	-	-
10	003101	Unclassified Decomposition Class 1	Cu.M.	2,157	517,440,004	-	-	-	-	-
11	003102	Unclassified Decomposition Class 2	Cu.M.	1,937	29,260,025	-	-	38,93051	91,581,569	-
12	003103	Decomposition Class 3	Cu.M.	2,255	37,063,760	-	-	-	-	-
13	003104	Leaching Adjustment	Cu.M.	1,117	108,140,120	-	-	9,62186	21,612,090	-
14	003105	Select Leaching Adjustment	Cu.M.	0,654	132,327,400	-	-	27,78634	31,041,509	-
15	004101	Structure Decomposition	Cu.M.	4,022	25,749,809	-	-	1,716	11,798,300	-
16	004102	Bridge Decomposition	Cu.M.	6,528	38,514,200	-	-	5	20,110	-
17	009101	Removal of Existing Pavement	Sq.Yd.	3,651	12,428,200	-	-	1,79293	11,704,247	-
18	009102	Asphalt Treated Base Course	Ton	15,434	651,597,900	-	-	-	-	-
19	009103	Aggregate Base Course	Cu.M.	13,165	416,717,575	-	-	-	-	-
20	009104	Lean Treated Improved Subgrade, Foxcrossing	Cu.M.	-	-	-	-	2	26,331	-
21	009105	Hydrated Lime	Ton	-	-	-	-	-	-	-
22	009106	Curry Soil, Unmodified Asphalt Grade 50-10	Ton	-	-	-	-	-	-	-
23	009107	Hot Bituminous Concrete Pavement	Ton	-	-	-	-	-	-	-
24	009108	Asphalt Cement 40-20 Penetration	Ton	16,209	254,481,306	-	-	-	-	-
25	009109	Hot Coat, Unmodified Asphalt Grade 50-10	Ton	100,126	481,411,707	-	-	-	-	-
26	009110	Hot Coat, Asphalt Grade 50-10	Ton	52,219	13,111,351	-	-	-	-	-
27	009111	Hot Coat, Asphalt Grade 50-10	Ton	24,848	57,733,280	-	-	-	-	-
28	009112	Hot Coat, Cover Aggregate, Grading n. Type 3	Ton	14,308	21,467,000	-	-	-	-	-
29	009113	Hot Coat, Asphalt Grade 50-10	Ton	535,468	14,807,420	-	-	-	-	-
30	009114	Hot Coat, Unmodified Asphalt Grade 50-10	Ton	479,552	8,637,076	-	-	-	-	-
31	009115	Structural Steel Piles Furnished	L.P.	46,825	404,222,750	-	-	6,300	296,535,000	-
32	009116	Structural Steel Piles Driven	Each	132,460	109,411,960	-	-	108	56,692,880	-
33	009117	Structural Steel Piles Cast in-situ	Each	132,460	897,380	-	-	-	-	-
34	009118	Soil Nail	(L.S.)	2,192,576	2,192,576	2	4,395,152	2	4,395,152	-
35	009119	Soil Nails (Other than Rock)	L.P.	52,074	2,501,709	-	-	9605	5,043,366	-
36	009120	Soil Nails (Rock)	L.P.	106,888	5,344,400	-	-	3885	4,088,165	-
37	009121	Rehabilitation & Dowelization of Existing Pavement, Each Bridge Site	Each	13,106	1,679,318	-	-	1	633,106	-
38	009122	Structural Concrete, Class "B"	Cu.M.	20,282	537,491,600	-	-	31	3,788,883	-
39	009123	Structural Concrete, Class "C"	Cu.M.	58,273	8,444,585	13	783,772	13	783,772	-
Sheet No. 1						Sub-Total :		5,618,478		764,550,649

STATE PROJECT

PROJECT RECORD - ESTIMATE

Project No. 9
 August 1, 1962.
 Project Dates: Jan. 26, 1962 thru July 25, 1962.

LINE NO.	ITEM NO.	ITEMS	UNITS	THIS ESTIMATE		TOTAL ESTIMATE	
				Quantity	Amount	Quantity	Amount
29.	600611	East Bridge S18.11 * 512, Superstructure	L. S.	-	704,809,473	-	-
30.	600612	East Bridge S18.11 * 507, Superstructure	L. S.	-	496,511,817	-	-
31.	600613	East Bridge S18.11 * 502, Superstructure	L. S.	-	392,416,263	-	-
32.	603111	Reinforcing Steel	Sq. Ft.	548	290,440,000	-	-
33.	603112	Reinforced Concrete Pipe, 2 60 in	L. Ft.	42,128	44,234,400	58	112,854
34.	603121	Reinforced Concrete Pipe, 2 80 in	L. Ft.	58,754	43,472,940	-	-
35.	603130	Reinforced Concrete Pipe, 2120 in	L. Ft.	90,385	4,519,250	-	-
36.	604111	Utility Manhole Type 1	Each	757,182	4,542,882	-	-
37.	604121	Utility Manhole Type 2	Each	401,869	1,607,476	-	-
38.	604130	Inlet, Type I	(Each)	1,039,600	27,029,600	-	-
39.	604140	Inlet, Type II	(Each)	1,025,051	1,025,051	-	-
40.	604150	Inlet, Type III	(Each)	1,025,051	10,756,510	-	-
41.	604160	Inlet, Type IV	(Each)	1,045,888	2,687,104	-	-
42.	604171	Gate, Type I	Each	326,543	4,904,145	-	-
43.	605111	20 in. Exposed Conc. Pipe Inlet, Incl. End Wall	L. Ft.	9,913	46,591,100	-	-
44.	605121	Reinforced Junction Box Surface	Each	17,061	426,525	-	-
45.	606111	Galvanized Beam Type Guardrail & Post	L. Ft.	78,823	45,717,140	-	-
46.	606121	Passive Existing Guardrail and Helicote	L. Ft.	6,391	2,426,560	-	-
47.	607111	Wired Wire Fence	L. Ft.	12,110	50,862,000	1013	1,226,743
48.	609111	Concrete Curb Gutter, Type 1	L. Ft.	11,929	1,550,770	-	-
49.	609121	Concrete Curb Gutter, Type 2	L. Ft.	25,415	25,160,850	-	-
50.	609130	Concrete Delineation Strip	L. Ft.	7,160	8,056,000	-	-
51.	609140	Concrete Median Barrier	L. Ft.	32,338	162,411,600	-	-
52.	609150	Concrete Median Barrier End Taper	Each	149,423	556,452	-	-
53.	609160	Concrete Median Barrier Transition to Bridge	Each	45,435	4,172,634	-	-
54.	611111	Rock Slope Protection	Sq. Ft.	15,811	79,055,000	-	-
55.	622111	Grouted Rip-Rap 24 in. Thick for Channel Lining	Sq. Ft.	8,251	255,781,000	-	-
56.	622121	Grouted Rip-Rap	Sq. Ft.	39,886	15,954,400	-	-
57.	622131	Survey Control Monument	Each	67,796	3,796,576	-	-
58.	624111	Flashing Sealed Topsoil	Sq. Ft.	18,244	12,405,026	-	-
59.	629111	Sodding	Sq. Ft.	81,800	98,160,000	-	-
60.	630111	Concrete Block Slope Protection	Sq. Ft.	18,456	15,687,600	-	-
61.	631111	Roadway Pavement, 18 in. Striping	L. Ft.	767	34,745,100	-	-
62.	631121	Signposts, Direction, Warning, Arrow, Etc.	Sq. Ft.	6,829	116,580	-	-
63.	632111	Standard Road Sign, Type A	Each	22,207	244,574	-	-
64.	632121	Standard Road Sign, Type B	Each	41,296	1,412,960	-	-
65.	632131	Standard Road Sign, Type C	Each	11,296	2,119,440	-	-
66.	632141	Standard Road Sign, Type D	Each	108,421	816,042	-	-
67.	632151	Standard Road Sign, Type E	Each	148,754	444,462	-	-
68.	632161	Non-Standard Road Sign No. 1	Each	47,550	747,850	-	-
69.	632171	Non-Standard Road Sign No. 2	Each	247,550	247,550	-	-
70.	632181	Non-Standard Road Sign No. 3	Each	109,927	309,927	-	-
Sheet No. 2				Sub-Total		1,639,597	1,639,597

JAGORAWI
HIGHWAY PROJECT
STAGE II

PROJECT RECORD-ESTIMATE

Contract No. 9 • Estimate No. 10 • August 4, 1982.
Contract Dates: January 26, 1982 thru July 25, 1982.

SHEET 4

Contract & Estimate
1-26-82 thru 7-25-82

EST. ITEM NO.	ITEMS	CONTRACT PRICES	APPROXIMATE AMOUNT	LINE ESTIMATE		TOTAL ESTIMATE		EST. ITEM NO.
				Quantity	Amount	Quantity	Amount	
	Sheet No. 1							
	Sheet No. 2 Sub Totals				5,618,178		764,550,619	
	Sheet No. 3 Sub Totals				1,639,597		1,639,597	
	Sheet No. Sub Totals				31,524,720		36,869,406	
	Sheet No. Sub Totals							
	Sheet No. Sub Totals							
	Sheet No. Sub Totals							
	SUB - TOTALS: CONTRACT ITEMS							
	(A) Time and Materials Extra Work				38,782,865		803,059,652	
					698,731		12,925,183	
	SUB - TOTALS WORK DONE							
	(B) Materials on Hand				39,281,596		815,984,835	
					1,011,123		103,276,626	
	SUB - TOTALS WORK DONE: MATERIALS							
					10,292,719		919,261,531	
	(C) Deduct 2/3 of 15% Advance Payment.							
	(D) Deduct 10% Retention Payment				4,029,272		72,054,885	
	(E)				4,029,272		91,926,153	
	(F)							
	SUB - TOTALS: DEDUCTION							
	Sub total				8,058,544		163,981,038	
	ADD 2.5% 12th tax.				32,234,175		755,280,193	
	TOTAL AMOUNT DUE CONTRACTOR				805,654		18,882,012	
					33,040,029		774,162,505	

BILL DATE: Sept 22, 80 ESTIMATED DATE: May 12, 1981
 DELETED: 1983 COMPILATION 1983 WORKING PAYS 135 C.C.O. PAYS -0- ALLOWABLE PAYS -0- PERCENT 10.78 PERCENT TIME 60.30 \$

REQUEST FOR PAYMENT FOR MATERIALS ON HAND

Ammann & Whitney
Trans - Asia Engineering

**JAGORAWI
HIGHWAY PROJECT
STAGE II**

To : Mr. Larry G. Buntan.
Engineer in charge
PT. ICCI Jagorawi Highway Stage II.

From : _____
Contractor

In accordance with the provisions of Section 109.07 of the Special Provisions, request is made for payment as "Materials on Hand" for the following materials :

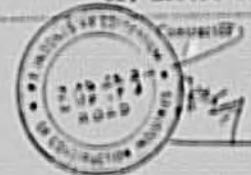
ITEM NO.	QUANTITY	MATERIAL DESCRIPTION	RP. VALUE	TYPE OF SUBSTANTIATING EVIDENCE OF PURCHASE ATTACHED	WHERE STORED.
1.	159,76LKg	Re Bar a' 100%	5,517,121	Invoice	Work Shop Ciawi.
2.	2,787.30	Ln PCP ø 20cm a'100%	5,713,965	Produced by Contractor.	Work Shop Sentul
3.	635.2	Ln RCP ø 60 cm a 100%	26,759,706	"-	Work Shop Sentul.
4.	280	Ln RCP ø 80 cm a 100%	16,451,120	"-	Work Shop Sentul.
5.	37.5	Ln RCP ø 120cm a100%	3,389,437	"-	Work Shop Sentul.
6.	3,823.85M ³	Aggregate a100%	16,920,536	"-	Work Shop Sentul.
Total			Rp 114,751,885		
(0.9) Total			Rp 103,276,696		

Requested Payment in pay estimate no 9 Rp 1,011,123.--

AFFIDAVIT : (103,276,696 - 102,265,573 = 1,011,123)

The materials listed above have been purchased exclusively for use on the above referenced project. The material is separated from other like materials and is physically identified as our property for use only on The Jagorawi Highway Project. The Engineer may enter upon the premises for the purposes set forth in The Special Provision for inspection, checking or auditing, or for any other purpose as you consider necessary. It is expressly understood and agreed that this information and affidavit is furnished to the Engineer for the purpose of obtaining payment for the above materials before they are delivered to, or incorporated into, the project described above, and that the storage thereof at the location shown is subject to, and under the control of, the Engineer. A revised form showing the current status of the value of materials for which payment is being requested will be submitted each estimate period.

Ir. HUSODO SUHARTO.



when stored at a location other than on the jobsite or at a fabricator's yard, a warehouse receipt for the material issued in the name of the Government shall accompany the request for payment. In case the storage location (other than the jobsite of fabricator's yard) is the Contractor's property, the area containing the material to be paid for shall be fenced off and posted to indicate that the material within the fenced area is under the control of the Government.

INSTRUCTION TO CONTRACTOR :

Submit original and two copies to Engineer in-charge not later than one week prior to the end of the estimate period. Attach evidence of purchase (and warehouse receipt when required) to original.

MATERIAL ON HAND.

as of July 25, 1982 after
correction from Engineer.

1. Re - Bar.			
- Quantity	=	176,564	Kg.
2. PCP ϕ 20 cm	=	2,787.30	Lm.
3. RCP ϕ 60 cm	=	645	Lm.
be used	= (-)	9.8	Lm.
	=	635.2	Lm.
4. RCP ϕ 80 cm	=	280	Lm.
5. RCP ϕ 120 cm	=	37.5	Lm.
6. Aggregate.	=	3,823.85	M3.

RUPIAH PORTIONS :

1. Re - Bar	: 176,564 x Rp 257.79 x 100%	= Rp	45,517,121.--
2. PCP ϕ 20 cm	: 2,787.30 x Rp 2,050 x 100%	= Rp	5,713,965.--
3. RCP ϕ 60 cm	: 635.2 x Rp 42,128 x 100%	= Rp	26,759,706.--
4. RCP ϕ 80 cm	: 280 x Rp 58,754 x 100%	= Rp	16,451,120.--
5. RCP ϕ 120 cm	: 37.50 x Rp 90,385 x 100%	= Rp	3,389,437.--
6. Aggregate	: 3,823.85 x Rp 4,425 x 100%	= Rp	16,920,536.--
	Total	= Rp	114,751,885.--
	0.9 total	= Rp	103,276,696.--

Requested payment in pay estimate no 9 = Rp 1,011,123.--
(103,276,696 - 102,265,573 = 1, 011,123).

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. 90, August 1982	(-)US\$	<u>3,870,098</u>
	Dollar Funds Remaining as of August 31, 1982	US\$	108,956

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. 102, August 1982	(-)Rp	<u>1,378,735,072</u>
	Rupiah Funds Remaining as of August 31, 1982	Rp	176,893,497

III. CONSTRUCTION CONTRACT

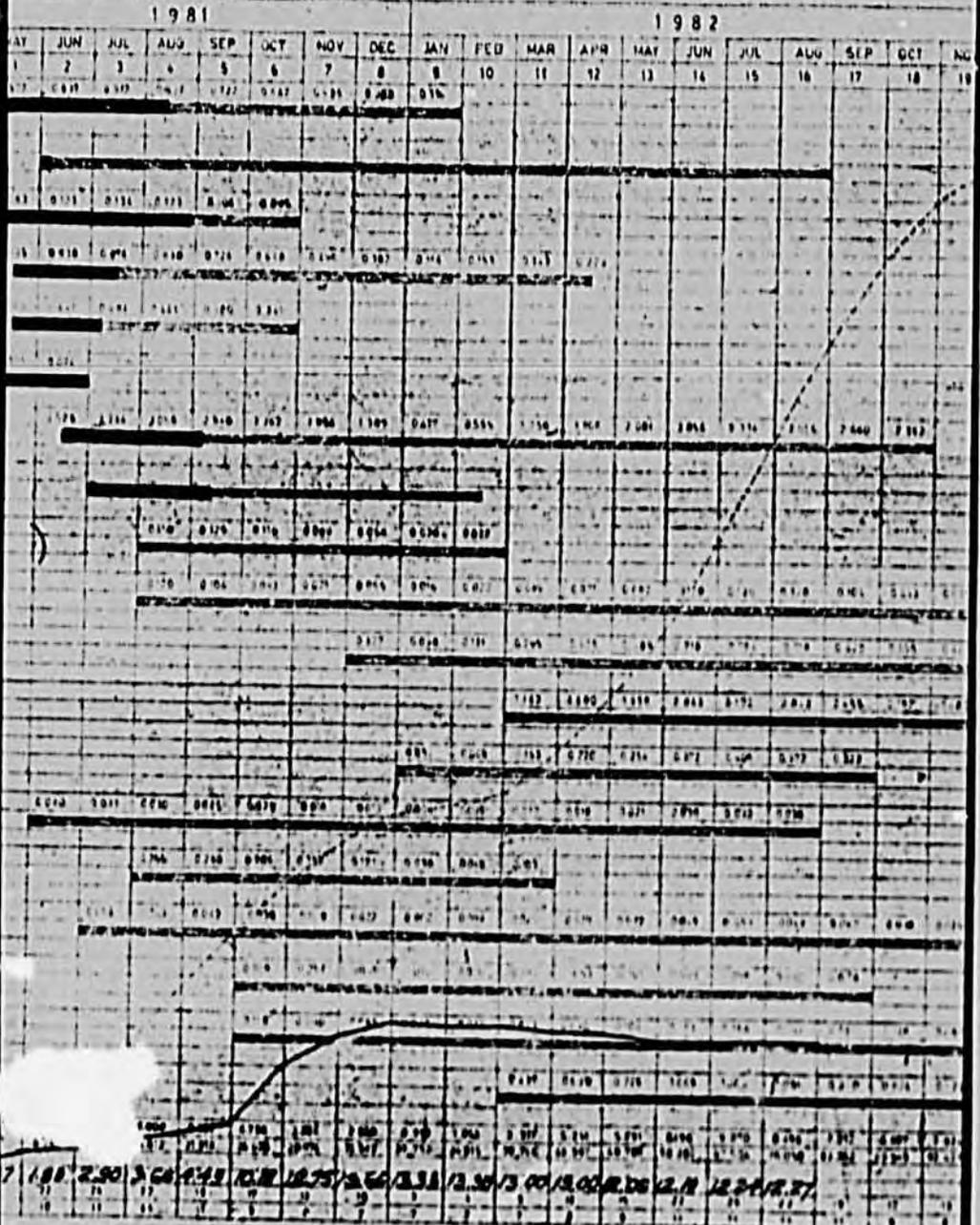
---	Approved Value of Contract	Rp	8,050,000,000
---	Value of Contract Change Orders Approved to Date	(-)Rp	<u>292,506,305</u>
	Approved Value of Contract	Rp	7,757,493,695

*Differences is due to banking charges.

CONSTRUCTION PROGRESS SCHEDULE

25

PT 110
INDIA STAN
JAC 0014



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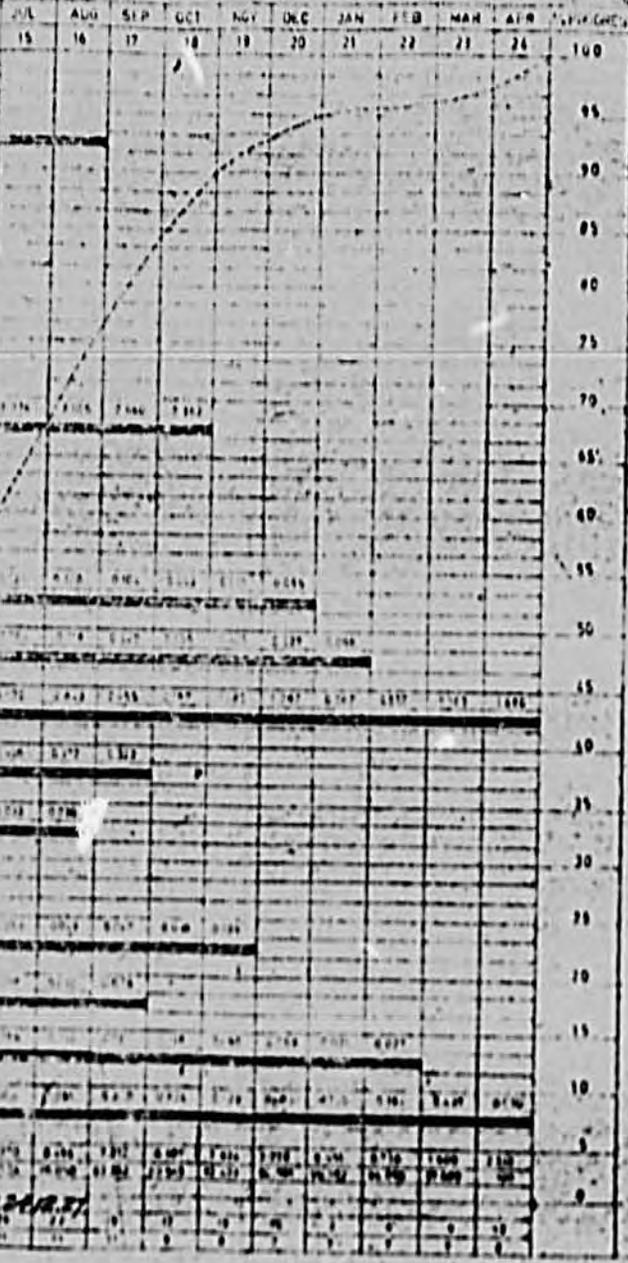
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P.T. 10001

PAKISTAN PROGRAM OF CONTRACTS (PAC)

ASHTARI HIGHWAY PROJECT, LEGH II

August 1982

1983



REMARK

PROGRESS SCHEDULE No. 1

APPROVED
BY
DATE