

Library

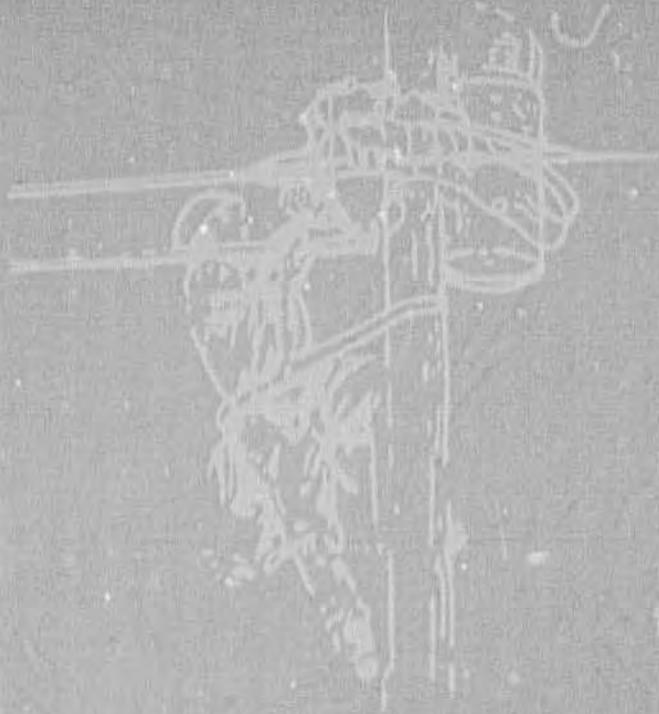
PERUSAHAAN

UMUM

LISTRIK

NEGARA

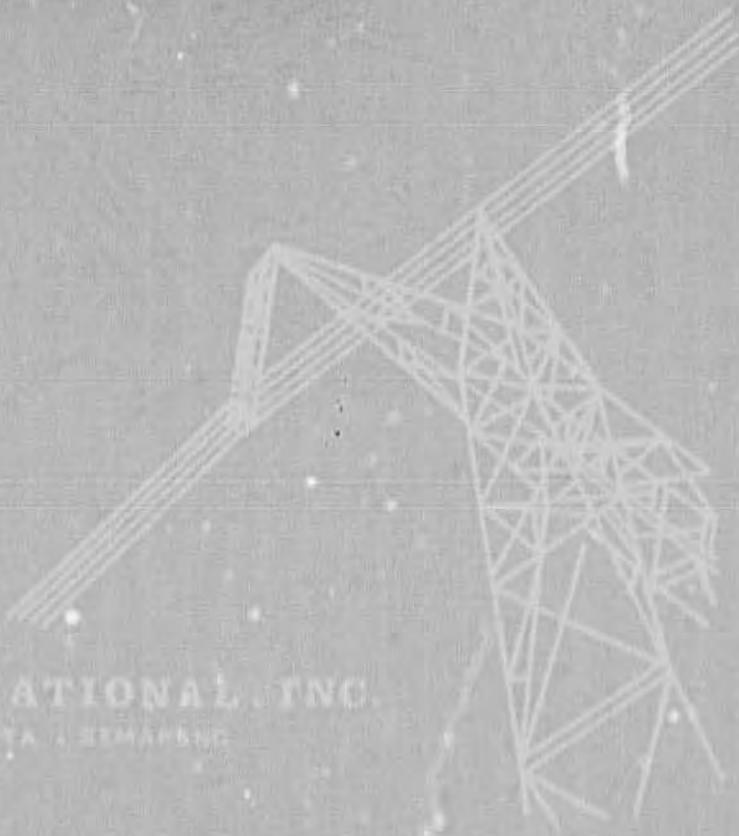
JAKARTA - INDONESIA



MAIN
Engineers

CHAS. T. MAIN INTERNATIONAL, INC.

BOSTON - BANDUNG - JAKARTA - SEMARANG



PERUSAHAAN UMUM LISTRIK NEGARA
JAKARTA , INDONESIA

WEST JAVA
ELECTRIC TRANSMISSION PROJECT

MONTHLY REPORT

SEPTEMBER 1982

WEST JAVA I AND II PROJECTS
CONTRACTS

Pj. 013/PST/74 and Pj. 023/PST/75

USAID LOANS 497-F-028 & 497-W-032



CHAS. T. MAIN INTERNATIONAL, INC.

BOSTON MASSACHUSETTS U.S.A.

BANDUNG, INDONESIA

MAIN

PERUSAHAAN UMUM LISTRIK NEGARA CONSULTANTS
CHAS. T. MAIN INTERNATIONAL, INC.
BANDUNG - TROMOLPO 89, TEL. 56868, J.L. PROGO 33
JAKARTA - P.O. BOX 100, KBYT, KEBAYORAN TIMUR, TEL. 774011-2 EXT. 17, 776025 J.L. WIJAYA 1/81
SEMARANG - P.O. BOX 28, TEL. 312701-311702 / L. SLAMET 8

6 October 1982

Letter No. J-5521.

Ir. R. Semiawan
PERUSAHAAN UMUM LISTRIK NEGARA
Proyek Induk Jaringan Jawa Barat & Jakarta Raya
Jalan Cililitan Besar No. 1, Cawang
Jakarta

Subject: West Java I and II Projects
Monthly Report

Dear Ir. Semiawan:

In accordance with Article 7.2 of the West Java I Contract No. Pj. 013/PST/74 and Appendix V of the West Java II Contract No. Pj. 023/PST/75, enclosed are six (6) copies of our Report for the month of September 1982.

Very truly yours,

CHAS. T. MAIN INTERNATIONAL, INC.

John Whitby
J. Whitby

Manager of Administration

cc. : DIRBANG - PLN Pusat (Encl. 1)
USAID - Jakarta (Encl. 4)
MAIN - Boston (Encl. 1)
MAIN - CHA. (Encl. 1)

/swt

NONP OFFICE

SOUTHEAST TOWER, PRUDENTIAL CENTER, BOSTON, MASSACHUSETTS 02109 U.S.A.

WEST JAVA I AND II PROJECTS

MONTHLY REPORT

SEPTEMBER 1982

A. PERSONNEL

1. ENGINEER

- a. There were no changes during the month.
- b. Mr. J.C. Harkey, Substation Engineer and Construction Manager, was scheduled to complete his assignment on 30 June 1982. PLN and MAIN have agreed to continue Mr. Harkey's services until 15 October 1982.
- c. End of the month strength was as follows :

<u>NAME</u>	<u>TITLE</u>	<u>ARRIVAL DATE</u>
J.C. Harkey	Substation Eng. / Constr. Mgr.	15 Oct. 1977

2. PLN

- a. As the Projects are nearing completion, a number of the PLN local Staff have been re-assigned to PLN.
Remaining Staff is as follows :

<u>JOB TITLE</u>	<u>NUMBER</u>
Secretaries	1
Draftsmen	4
Reproduction Personnel	1
Drivers	1

- b. In addition to the above staff, PLN Counterpart and field personnel are assigned to the Projects as required.

B. ADMINISTRATIVE AND GENERAL

1. ADMINISTRATION

a. Terminal Dates

- (1) TDDA - Terminal Date Disbursement Authorization - (Last day that USAID Loan Funds can be committed) - 30 June 1981.

Final Commitment of USAID Loan Funds :

	<u>West Java I</u>	<u>West Java II</u>
USAID Loan	\$ 17,200,000.00	\$ 19,700,000.00
Commitment	\$ 17,197,632.86	\$ 19,699,990.40

- (2) TDD - Terminal Disbursement Date - (Last day that payments can be made from USAID Loan Funds).

West Java I	30 September 1982
West Java II	31 March 1982

- (3) Scheduled Final Substation Energization - 31 December 1981.
See G.1.c.
- (4) Scheduled Completion of Engineering Services - 30 June 1982.
See A.1.b.

b. West Java I Contract Data

(1) US \$ Contracts - 9	\$	17,118,941.87
(2) Rupiah Contracts - 20	Rp.	2.500.654.269,-

c. West Java II Contract Data

(1) US \$ Contracts - 5	\$	19,611,292.72
(2) Rupiah Contracts - 29	Rp.	4.010.065.855,-

d. West Java I and II Contract Data

(1) Rupiah Contracts - 7	Rp.	5.473.630.492,-
--------------------------	-----	-----------------

e. Totals

(1) US \$ Contracts - 14	\$	36,730,234.59
(2) Rupiah Contracts - 56	Rp.	11.984.350.616,-

2. GENERAL

a. No Report.

C. CONFERENCES AND EVENTS

1. None to Report.

D. PROBLEMS AREAS AND TENTATIVE SOLUTIONS

1. During erection of the electrical equipment, material shortages were discovered and replacement parts were immediately ordered for air shipment. Most missing parts have arrived and are being installed. The Bandung Utara Substation is the only one affected.

E. TRANSMISSION - WEST JAVA I

1. All property and ROW acquisition, material supply, installation and construction have been completed and accepted.
2. Two (2) towers were originally built in areas which proved unstable. The towers were relocated and now appear stable but it is recommended that the sites be monitored on a periodic basis.

F. TRANSMISSION - WEST JAVA II

1. All property and ROW acquisition, material supply, installation and construction have been completed and accepted.

G. SUBSTATIONS

1. Construction

- a. Tegal Substation

All work is completed and the addition has been energized.

b. Ujungberung Substation

Installation of the Switchyard stone covering remains to be done. The Control House and Erection, Wiring and Testing are completed.

c. Bandung Utara Substation

Minor civil work remains to be finished. The Control House and Access Road are completed. Most remaining parts have been received and are being installed. The OCB on the future Padalarang Line will be ready for operation and several 20 KV circuit breakers will be energized when installation is completed.

d. Bogor Substation

All work has been completed.

H. MOBILE RADIO

1. Installation of the mobile radio system is complete and the system is operating.

I. SCHEDULES

1. West Java I and II Projects Completion

The tables which are on pages 7 and 8 give the scheduled and actual completion of the various phases of the Projects. Engineering as well as physical completion are included in the percentage figures.

The page following is the Project Completion graph based on these tables and in addition shows the monthly scheduled percentage completion to the end of the Project. The scheduled completion is based on the estimated schedule at the time Amendment No. 4 of the Engineering Services Contract was signed and does not necessarily reflect the Schedules provided by the various Construction Contractors.

J. TRAINING

1. Work continues in preparation of the Substation Operations Manual for PLN.
2. Some equipment repairs are being made in the field when there is a failure. During these repairs, additional training for PLN maintenance personnel is given.

West Java I Project
 Project Completion
 (Includes Engineering and Design)
 as of 30 September 1982

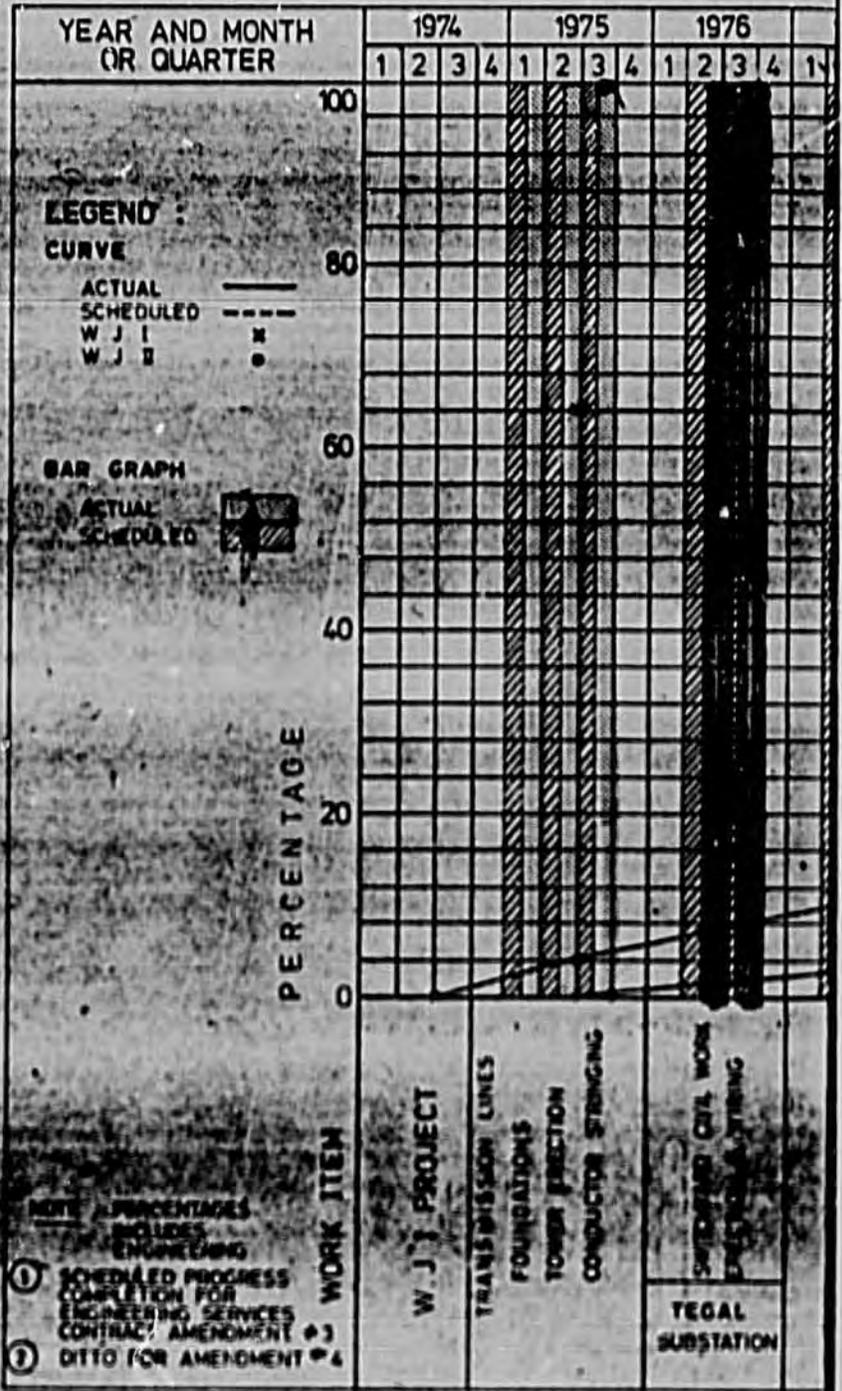
<u>Work Item</u>	<u>Weighted Percent of Project</u>	<u>Percent of Item Completed to Date</u>		<u>Percent of Project Completed to Date</u>	
		<u>Scheduled</u>	<u>Actual</u>	<u>Scheduled</u>	<u>Actual</u>
Transmission Line					
Foundations	28.9	100.0	100.0	28.9	28.9
Tower Erection	13.5	100.0	100.0	13.5	13.5
Conductor Stringing	11.7	100.0	100.0	11.7	11.7
Tegal Substation					
Switchyard	2.0	100.0	100.0	2.0	2.0
Erection and Wiring	1.2	100.0	100.0	1.2	1.2
Ujungberung Substation					
Switchyard Civil Work	15.2	100.0	100.0	15.2	15.2
Control House	11.5	100.0	100.0	11.5	11.5
Equipment Erection, Wiring and Testing	10.3	100.0	100.0	10.3	10.3
Radio System	5.7	100.0	100.0	5.7	5.7
Total	100.0			100.0	100.0
	*****			*****	*****

West Java II Project
 Project Completion
 (Includes Engineering and Design)
 as of 30 September 1982

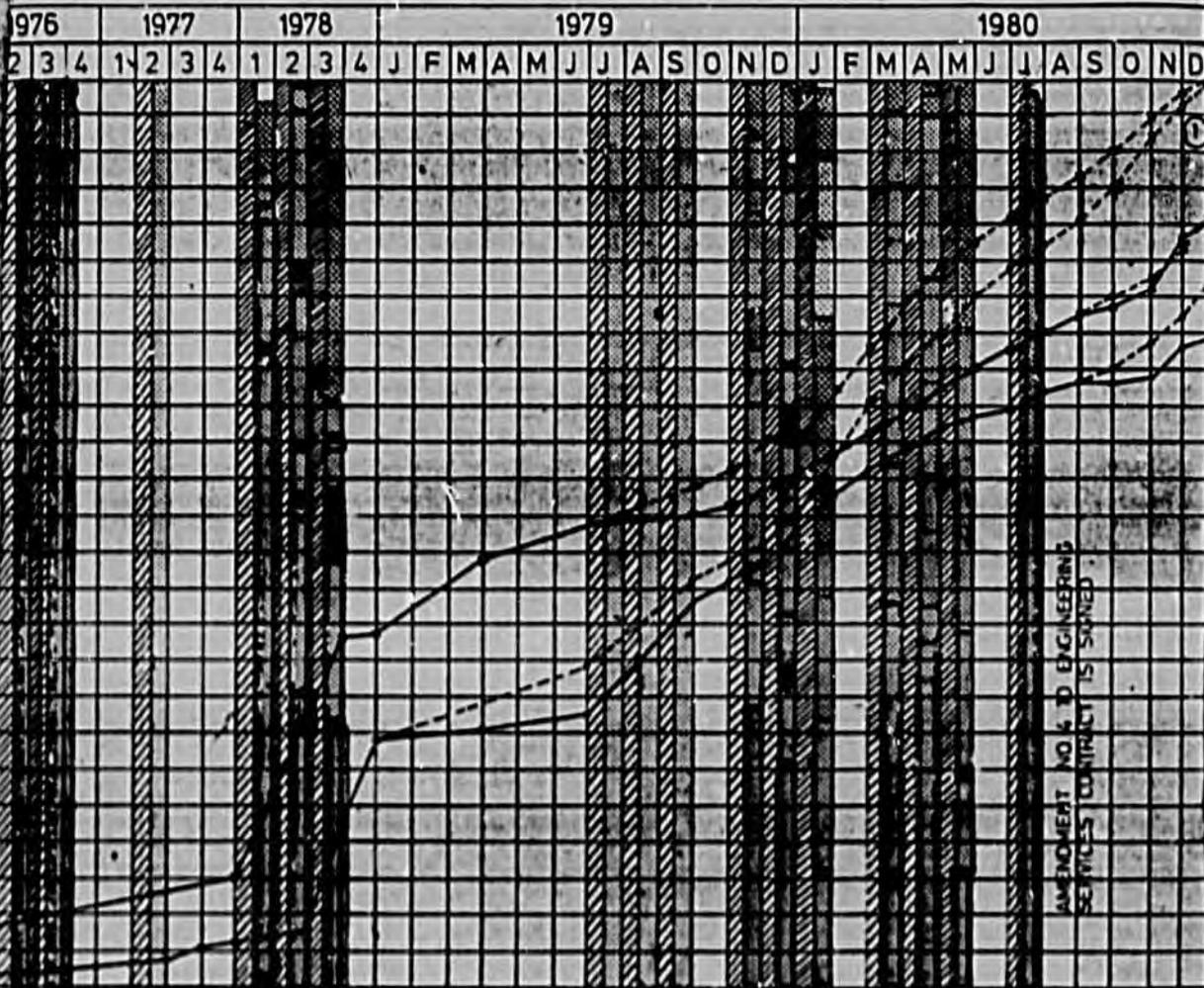
<u>Work Item</u>	<u>Weighted Percent of Project</u>	<u>Percent of Item Completed to Date</u>		<u>Percent of Project Completed to Date</u>	
		<u>Scheduled</u>	<u>Actual</u>	<u>Scheduled</u>	<u>Actual</u>
Transmission Line					
Foundations	28.1	100.0	100.0	28.1	28.1
Tower Erection	13.1	100.0	100.0	13.1	13.1
Conductor Stringing	11.1	100.0	100.0	11.1	11.1
Bandung Utara Substation					
Switchyard	7.3	100.0	100.0	7.3	7.3
Control House	6.1	100.0	100.0	6.1	6.1
Equipment Erection, Wiring and Testing	4.9	100.0	99.0	4.9	4.8
Bogor Substation					
Switchyard Civil Work	10.6	100.0	100.0	10.6	10.6
Control House	5.8	100.0	100.0	5.8	5.8
Equipment Erection Wiring and Testing	7.0	100.0	100.0	7.0	7.0
Radio System	6.0	100.0	100.0	6.0	6.0
Total	100.0			100.0	99.0
	*****			*****	*****

9

WEST JA
PROJECT COM



WEST JAVA I AND II PROJECTS 10
 AT COMPLETION AS OF SEPTEMBER 30, 1982



AMENDMENT NO. 10 ENGINEERING SERVICES CONTRACT IS SHOWN

SWITCHING CIVIL WORK ERECTOR & WIRING	RADIO SYSTEM		SWITCHING CIVIL WORK CONTROL HOUSE ERECTOR WIRING & TESTING	W. J. II PROJECT	TRANSMISSION LINES FOUNDATIONS TOWER ERECTOR CONDUCTOR STRINGING	SWITCHING CIVIL WORK CONTROL HOUSE ERECTOR WIRING & TESTING	SWITCHING CIVIL WORK CONTROL HOUSE ERECTOR WIRING & TESTING	RADIO SYSTEM
TEGAL SUBSTATION	U. BERUNG SUBSTATION					BDG. UTARA SUBSTATION	BOGOR SUBSTATION	

11

