

PDAAN 225

PERUSAHAAN UMUM LISTRIK NEGARA

JAKARTA, INDONESIA

ISN 31519

4970232

WEST JAVA

4970215/53

ELECTRIC TRANSMISSION PROJECT

MONTHLY REPORT

APRIL 1979

WEST JAVA I AND II PROJECTS
CONTRACTS

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

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



CHAS. T. MAIN INTERNATIONAL INC.

BOSTON MASSACHUSETTS U.S.A.

BANDUNG, INDONESIA

MAIN
Engineers

PERUSAHAAN UMUM LISTRIK NEGARA CONSULTANT
CHAS. T. MAIN INTERNATIONAL, INC.
BANDUNG - TRC MOLPOS 88, TEL. 86888, JL. PROGO 22
JAKARTA - P.O. BOX 100, KBT KEBAYORAN TIMUR, TEL. 778888 JL. WIJAYA 1/61
SEMARANG - P.O. BOX 26, TEL. 311702 JL. SLAMET 1

17 May 1979

Letter No. B - 9868

Ir. R. Semiawan

PERUSAHAAN UMUM LISTRIK NEGARA

Proyek Induk Jaringan Jawa Barat & Jakarta Raya

Jl. Cililitan Besar No. 1

Jakarta.

Subject : West Java I and II Projects
Monthly Reports

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 April 1979.

Very truly yours,
CHAS. T. MAIN INTERNATIONAL INC.

R. W. Malchow
R.W. Malchow

Project Manager

RWM/sa.-

cc. : DIRBANG/PLN PST - (Encl.1)

USAID/JKT - (Encl.4) ✓

MAIN/BSN - (Encl.1)

WEST JAVA I AND II PROJECTS

MONTHLY REPORT

APRIL, 1979

A. PERSONNEL

1. ENGINEER

- a. On 14 February, MAIN submitted the resume and bio-data of Mr. C.L. Crume for PLN's approval for the position of Substation Construction Engineer. On 8 March PLN approved Mr. Crume and Immigration documents are being processed.
- b. Mr. J.P. Radda, former Administrative Assistant, resigned his position effective 5 April. On 4 April, MAIN submitted bio-data on Mr. Hendra Gunawan as Mr. Radda's replacement. This request is being considered by PLN.
- c. Mr. J.R. Knowles, former Supervisor of Equipment Maintenance, resigned his position effective 11 April. On 28 April, MAIN submitted bio-data on Mr. H.C. Radford as Mr. Knowles replacement. This request is being considered by PLN.
- d. End of the month strength was as follows :

<u>NAME</u>	<u>TITLE</u>	<u>ARRIVAL DATE</u>
R.W. Malchow	Project Manager	24 Oct. 1978
C.J. Whitby	Manager of Admin.	10 Sep. 1974
J.C. Harkey	Substation Engineer	15 Oct. 1977
D.L. Frye	Transmission Engineer	3 Jan. 1978
W.A. Villegas	Supervisor of Stores	25 Jul. 1977

West Java I

R.C. Van Nest	Superintendent of Constr.	17 Feb. 1977
Zainal Saur	Construction Supervisor	16 Mar. 1978

<u>NAME</u>	<u>TITLE</u>	<u>ARRIVAL DATE</u>
C.V. Silman	Construction Supervisor	1 Jun. 1978
P.V. Wilson	Construction Supervisor	15 Dec. 1978

West Java II

J.F. Christensen	Construction Inspector	6 Sep. 1977
D.L. Hawks	Construction Inspector	10 Apr. 1978

2. PLN

a. End of the month strength was as follows :

<u>JOB TITLE</u>	<u>NUMBER</u>
Transmission Liaison Engineer	1
Logistics Coordinator	1
Secretaries	5
Draftsmen	6
Accounting Clerks	2
Drivers	16

b. In addition to the above Staff, PLN has assigned numerous Counterpart and field personnel to the Projects.

B. ADMINISTRATION AND GENERAL

1. ADMINISTRATION

a. West Java I Contract Data

(1)	No. Pj.013/PST/74	16 February 1974	US \$ 1,366,452.00
			Rp. 81.308.525,-
	Amendment No. 1	2 September 1975	US \$ -
			Rp. 14.575.975,-
	Amendment No. 2	12 March 1977	US \$ 1,589,996.00
			Rp. 49.916.408,-
	Amendment No. 3	10 January 1979	US \$ 867,561.00
	C.T. Main - Engineering Services		Rp. 92.358.466,-

- | | | | |
|-----|--|------------------|--------------------|
| (2) | No. Pj.153/PST/77 | 5 September 1977 | US \$ 2,531,335.58 |
| | Amendment No. 1 | 10 July 1978 | |
| | Amendment No. 2 | In Process | |
| | Irby Construction Company
Tower Steel, Insulators and Accessories | | |
| (3) | No. Pj.202/PST/77 | 28 November 1977 | US \$ 284,289.50 |
| | Amendment No. 1 | 30 November 1978 | US \$ 10,449.56 |
| | Copperweld Industries
Shield Wire | | |
| (4) | No. Pj. 203/PST/77 | 28 November 1977 | US \$ 1,906,391.70 |
| | Amendment No. 1 | 10 July 1978 | US \$ 54,615.55 |
| | Amendment No. 2 | 30 March 1979 | US \$ 30,914.45 |
| | South Wire Company
Conductor | | |
| (5) | No. Pj.050/PST/78 | 10 March 1978 | US \$ 369,473.98 |
| | Amendment No. 1 | 13 December 1978 | US \$ 35,669.44 |
| | Tension Stringing Equipment Co.
Wire Stringing Equipment | | |
| (6) | No. Pj.051/PST/78 | 10 March 1978 | US \$ 87,852.00 |
| | Ohio Brass Company
Lightning Arrestors | | |
| (7) | No. Pj.052/PST/78 | 11 March 1978 | US \$ 4,499,800.74 |
| | Amendment No. 1 | In Process | |
| | Irby Construction Company
Substation Equipment
Maintenance Tools and Equipment | | |
| (8) | No. Pj.053/PST/78 | 11 March 1978 | US \$ 2,452,391.40 |
| | Amendment No. 1 | In Process | |
| | General Electric Company
Substation Equipment | | |

(9)	No. Pj.087/PST/78 Amendment No. 1 Motorola Radio Equipment	11 May 1978	US \$ 395,819.20 In Process
(10)	No. Spj.022/PLN/PI RING/77 Tikon Abadi Foundations - Section I	27 October 1977	Rp. 199.278.000,-
(11)	No. Spj.023/PLN/PI RING/77 Gunung Kencana Foundations - Section IIA	27 October 1977	Rp. 153.445.000,-
(12)	No. Spj.024/PLN/PI RING/77 Dharma Niaga Foundations -Section IIB	27 October 1977	Rp. 164.789:000,-
(13)	No. Spj.010/PST/PI RING/78-79 P.T. Perfect Circle Tower Erection	8 December 1978	Rp. 132.894.300,-

b. West Java II Contract Data

(1)	No. Pj.023/PST/75 Amendment No. 1 Amendment No. 2 Amendment No. 3 C.T. Muin - Engineering Services	25 January 1975 12 May 1975 12 March 1977 10 January 1979	US \$ 1,541,729.00 Rp. 90.598.149,- US \$ - Rp. - US \$ 856,064.00 Rp. 15.129.504,- US \$ 112,000.00 Rp. 97.708.072,-
(2)	No. Pj.152/PST/77 Amendment No. 1 & 2	5 September 1977 10 July 1978	Rp. 452.526.908,- US \$ 7,744,165.78 Rp. 13.137.605,- US \$ 311,400.72

	Amendment No. 3				In Process
	Irby Construction Company				
	Transmission Line Construction				
(3)	No. Pj.051/PST/78	10	March 1978	US \$	87,852.00
	Ohio Brass Company				
	Lightning Arresters				
(4)	No. Pj.052/PST/78	11	March 1978	US \$	4,981,321.52
	Amendment No. 1				In Process
	Irby Construction Company				
	Substation Equipment				
(5)	No. Pj.053/PST/78	11	March 1978	US \$	3,974,100.16
	Amendment No. 1				In Process
	General Electric Company				
	Substation Equipment				
(6)	No. Spj.001/PLN/PI RING/77	25	April 1977	Rp.	329.553.000,-
	Citac Ltd.				
	Foundations - Sections II and III				

c. West Java I and II Contract Data

(1)	No. Spj.016/PLN/PI RING/77	4	July 1977	Rp.	54.245.000,-
	Sumber Jaya				For Both Projects
	Grounding Material				
(2)	No. Spj.017/PLN/PI RING/77	13	August 1977	Rp.	40.100.000,-
	P.T. Arcon				For Both Projects
	Stub Angles				

C. CONFERENCES AND EVENTS

1. Project Meeting No. 20 was held on 28 April in PLN's offices at Cawang.

Construction status and process reports were presented with particular attention given to any problem areas. Current Material Delivery Schedules were distributed.

D. PROBLEM AREAS

1. West Java I

- a. Tower Erection progressing slowly because of late delivery of tower steel.
- b. Still waiting acquisition of property for Line Section Ujungberung-Bandung Utara.
- c. Still waiting for word as to the results of the test being performed on the contaminated insulators from Barge CG - 140.

2. West Java II

- a. Property acquisition remains critical on the Bundle Conductor Line Sections. Ujungberung - Cigereleng has four (4) tower locations remaining to be purchased. Cibinong - Gandul line section ; no property procured.
- b. Tower erection progressing slowly because of late delivery of tower steel.
- c. Right-of-way staking, inventory and clearing going slow.

E. DESIGN AND FIELD PROGRESS - WEST JAVA I

1. TRANSMISSION DESIGN

- a. Review of foundation as-builts and concrete cylinder breaks continued during this period.
- b. Foundation repair work was completed where inadequate concrete and as-builts existed.

2. TRANSMISSION CONSTRUCTION

- a. Section I Foundations - Contractors : Tikon Abadi / Dharma Niaga
 - (1) Foundation construction and repair work are completed.
- b. Section II A Foundation - Contractors : Gunung Kencana / P.T. Citac
 - (1) Foundation construction and repair work are completed:
P.T. Citac completed the repair work on four (4) tower locations. Presently waiting for as-builts and concrete cylinder test reports.
- c. Section II B Foundation - Contractors : Dharma Niaga / Tikon Abadi
 - (1) A total of 88 tower locations have been poured in Section II B. This completes the foundations to Ujungberung Substation. The remaining 51 tower locations requiring construction are in Line Section Ujungberung - Bandung Utara. Property, to date, not procured.
- d. Tower Erection
 - (1) During this period, PLN erected 17 towers and PERCI erected 2. Progress has been slow due to lack of tower steel. Steel is on site and the speed of tower erection should increase. A total of 210 towers have been erected, 132 by PLN and 78 by PERCI.

F. DESIGN AND FIELD PROGRESS - WEST JAVA II

1. TRANSMISSION DESIGN

- a. Foundation Construction IFB for Bundle Conductor Line Section Ujungberung - Cigorelong was issued for Bids on 6 April 1979. Bids were received and opened on 23 April 1979. Evaluation of Bids was underway at the end of the period.
- b. Bundle Conductor Stub Angles types D1 and D2 are being fabricated for Line Section Ujungberung - Cigorelong.

- c. Right-of-way staking, inventory and clearing going slow.
- d. Property acquisition for Line Sections Ujungberung - Cigereleng and Cibinong - Gandul not complete.

2. TRANSMISSION CONSTRUCTION

- a. Foundation construction for Single Conductor Line Sections II and III are completed.
- b. Tower Erection Sections II and III - Contractors :
Irby Construction Company.
 - (1) Contractor has erected 70 complete towers and 13 towers are partly erected consisting of legs, body extensions and lower section of tower body. Of the 70 completed towers, 46 have been accepted.
 - (2) Tower erection was slow during this period because of lack of tower steel.

G. SUBSTATIONS

- 1. The IFB for Civil Work and Control Building for the Ujungberung Substation is scheduled to be issued in early May.
- 2. Cogelox responded concerning the frequencies of the Wave Traps and fabrication is underway.

h. MOBILE RADIO

- 1. Space for a radio repair shop is available at the Cigereleng warehouse.
- 2. Land for the repeater sites in Puncak and Sumedang has not been obtained as yet.
- 3. Most of the equipment has arrived in Indonesia. New Channel Elements are scheduled for delivery in early June.

I. TRAINING

1. On-the-job Training in connection with tower erection continues.
- 2. Mobile Radio Classroom and On-the-job Training is scheduled to begin about 4 June in Bandung.