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PERUSAHAAN UMUM LISTRIK NEGARA
JAKARTA, INDONESIA

WEST JAVA
ELECTRIC TRANSMISSION PROJECT

MONTHLY REPORT

JULY 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 - TRIMOLPOS 69, TEL. 56869, JL. PRAGO 32
JAKARTA - P.O. BOX 100, KBT KEBAYORAN TIMUR, TEL. 776925 JL. WIJAYA 1/61
SEMARANG - P.O. BOX 26, TEL. 311702 JL. BLANKET 1

13 September 1979

Letter No. B - 11134

Ir. R. Semiawan
Perusahaan Umum Listrik Negara
Proyek Induk Jaringan Jawa Barat & Jakarta Raya
Jl. Cililitan Besar 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 July 1979.

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

R.W. Malchow

R.W. Malchow
Project Manager

RWM/ns.-

cc. : DIRBANG/PLN PST - (Encl.1)
USAID/JKT - (Encl.4) ✓
MAIN/BSN - (Encl.1)

WEST JAVA I AND II PROJECTS

MONTHLY REPORT

JULY 1979

A. PERSONNEL

1. ENGINEER

a. On 4 April, MAIN submitted biodata on Mr. Hendra Gunawan as the replacement for the former Administrative Assistant.
On 14 June, Mr. Gunawan was officially approved by PLN/Project. PLN/PST was considering the request at the end of this period.

b. On 28 April, MAIN submitted bio-data on Mr. H.C. Radford as the replacement for the former Supervisor of Equipment Maintenance. On 3 May PLN approved Mr. Radford and he arrived on the Project on 8 July.

c. End of the month strength was as follows :

West Java I and II

<u>NAME</u>	<u>TITLE</u>	<u>ARRIVAL DATE</u>
R.W. Malchow	Project Manager	24 Oct. 1978
C.J. Whitby	Manager of Administration	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
C.L. Crume	Substation Constr. Eng.	3 Jun. 1979
H.C. Radford	Supervisor of Equip. Maint	8 Jul. 1979

West Java I

R.C. Van Nest	Superintendent of Constr.	17 Feb. 1977
Zainal Saur	Construction Supervisor	16 Mar. 1978
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	4
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
	Southwire 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 Arresters			
(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 11 May 1978 US \$ 395,819.20
Motorola
Radio Equipment
- (10) No. Spj.022/PLN/PI RING/77 27 October 1977 Rp. 199.278.000,-
Tikon Abadi
Foundations - Section I
- (11) No. Spj.023/PLN/PI RING/77 27 October 1977 Rp. 153.445.000,-
Gunung Kencana
Foundations - Section IIA
- (12) NO. Spj.024/PLN/PI RING/77 27 October 1978 Rp. 164.789.000,-
Dharma Niaga
Foundations - Section IIB
- (13) No. Spj.010/PLN/PI RING/78-79 8 December 1978 Rp.132.894.300,-
P.T. Perfect Circle
Tower Erection
- b. West Java II Contract Data
- (1) No. Pj.023/PST/75 25 January 1975 US \$ 1,541,729.00
Rp. 90.598.149,-
Amendment No. 1 12 May 1975 US \$ -
Rp. -
Amendment No. 2 12 March 1977 US \$ 856,064.00
Rp. 15.129.504,-
Amendment No. 3 10 January 1979 US \$ 112,000.00
C.T. Main - Engineering Services Rp. 97.708.072
- (2) No. Pj.152/PST/77 5 September 1977 Rp. 452.526.908,-
US \$ 7,744,165.78
Amendment No. 1 & 2 10 July 1978 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/77-78 | 5 | June | 1978 | Rp. | 329.553.000,- |
| | Citac Ltd. | | | | | |
| | Foundations - Sections II and III | | | | | |

West Java I and II Contract Data

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|-----|----------------------------|----|--------|------|-------------------|--------------|
| (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 | | | | | |

2. GENERAL

- a. A number of Letters of Commitment and Letters of Credit presently have expiration dates which need extension. During May USAID and Bank Indonesia were requested to so extend these dates. On 19 June, USAID Jakarta received notification from USAID Washington that the Letters of Commitment had been,

extended. Letter of Credit extensions by Bank Indonesia are in process.

CONFERENCES AND EVENTS

1. Project Meeting No. 23 was held on 28 July in PLN's offices at Cawang. Transmission and Substation construction status and progress were discussed with particular attention given to any problem areas. Current Material Delivery Schedules and Work Progress Schedules were distributed.

D. PROBLEM AREAS

1. West Java I and II

Right-Of-Way acquisition remains the most critical problem. Lack of tower steel is serious but some steel is in the process of being cleared and more deliveries are scheduled soon.

E. DESIGN AND FIELD PROGRESS - WEST JAVA I

1. TRANSMISSION DESIGN

- a. The Bid Opening for Conductor Stringing was held on 21 July and Bid Evaluations are scheduled for submission to PLN on 1 August.

2. TRANSMISSION CONSTRUCTION

- a. All foundation construction and repair work are complete from Tegal to Ujungberung.
- b. On the Line Section from Ujungberung to Bandung Utara, foundations have been installed for 14 towers. There are 51 tower locations in this Section.
- c. Tower Erection
To date, 404 towers out of total of 409 have been erected, 258 by PLN and 146 by P.T. Perfect Circle. Only 40 towers

have been accepted due to missing washers and certain tower members. Some missing steel is now in the Cirebon port but may be delayed in clearing Customs. A Customs clearance letter is in process but it may take up to one month to clear the steel.

F. DESIGN AND FIELD PROGRESS - WEST JAVA II

1. TRANSMISSION DESIGN

- a. The survey of a new line route between Cibinong and Gandul is complete and twenty towers have been staked to date. A study is underway as to which type of stub angles should be used.

2. TRANSMISSION CONSTRUCTION

- a. Foundations - Line Section I - Ujungberung to Cigereleng. Thirty foundations out of a total of 39 have been completed even though there is no formal Contract with P.T. Citac. The Contractor is now shut down because of a lack of Stub Angles. MAIN is checking on the quality of local steel and on foundation re-design.
- b. Tower Erection
To date, 201 towers have been erected by Irby Construction Company. Some 160 have been accepted. The remaining towers have missing washors and some tower components.
- c. Conductor
Conductor stringing is scheduled to begin in October. Some Right-of-Way has been inventoried but none has been purchased.

G. SUBSTATIONS

1. Tegal Substation. Civil work is 85% complete. The Erection IFB will be issued shortly. Energizing is scheduled by the end of the year. Panels have been received and are being checked.

Cogalex will install the panels but PLN and Main will inspect and test.

2. Ujungberung Substation. Bids for Civil work and Control House have been received and evaluated. Needed to be resolved is a problem about the access road and the allocation of necessary funds.
3. Bogor Substation. The Pre-bid Conference on Civil work and Control House was held on 27 July with Bids due on 16 August.
4. Bandung Utara Substation. Processing has been delayed awaiting a reply from PLN/PST concerning the availability of funds.
5. Material is or will be delivered in time for installation but much more indoor storage is needed. Work will begin next week to re-arrange existing stored equipment to provide the needed space.
6. There is still a problem of moisture content in the Oil Circuit Breakers. This will be resolved next week.

H. MOBILE RADIO

1. Two of the test instruments received from Motorola were inoperable. They were sent to Motorola, Singapore, for repair.
2. All of the equipment will be inspected completely and any required replacement parts will be provided by Motorola. A list of such replacements will be prepared.
3. The Motorola Service / Training Engineer will return to Indonesia when equipment installation is almost complete.
4. There will be a meeting with representatives of Motorola next week to finalize training and remaining equipment under the Contract.

5. Work on the Puncak repeater station should begin next week. The location of the Sumedang repeater station has been determined and property acquisition is underway.

I.. VEHICLES AND STRINGING EQUIPMENT

1. Flat-bed and derrick trucks have been inspected by Irby and MAIN. One remaining derrick truck will be shipped 24 August. Licensing is needed and is in process.
2. The tensioning equipment will be checked by MAIN in Cirebon next month.

J. TRAINING

No report