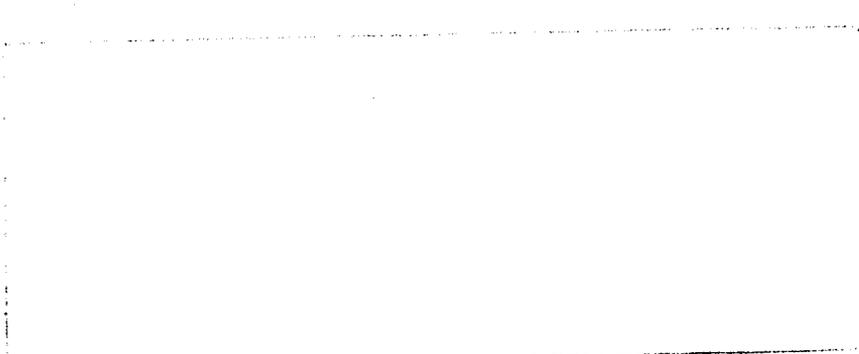


**PERUSAHAAN UMUM LISTRIK NEGARA
AGENCY OF MINISTRY OF MINES AND ENERGY
GOVERNMENT OF THE REPUBLIC OF INDONESIA**



**RURAL ELECTRIFICATION PROJECT
CONTRACT AID/ASIA-C - 1357
AID LOAN NO. 497 - T - 052**



RURAL ELECTRIFICATION PROJECT - INDONESIA
UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT
LOAN NO. 497-T-052

MONTHLY REPORT NO. 40
FOR
JANUARY, 1982

SUBMITTED BY
CHAS. T. MAIN INTERNATIONAL, INC.

I. INTRODUCTION

A. THE CONTRACT

Contract AID/ASIA-C-1357 was executed on September 18, 1978 between the United States Agency for International Development and Chas. T. Main International, Inc. following the completion of a Loan Agreement, AID Loan November 497-T-052, dated May 6, 1978, and a Grant Agreement, dated March 30, 1978, between the Republic of Indonesia and The United States of America for the implementation of a Rural Electrification Project, AID Project Number 497-0267.

Funding for Contract AID/ASIA-C-1357 is contained in the Grant Agreement. No Letter-of-Credit is involved in this contract. The date of implementation of the contract was September 18, 1978.

B. DESCRIPTION OF PROJECT

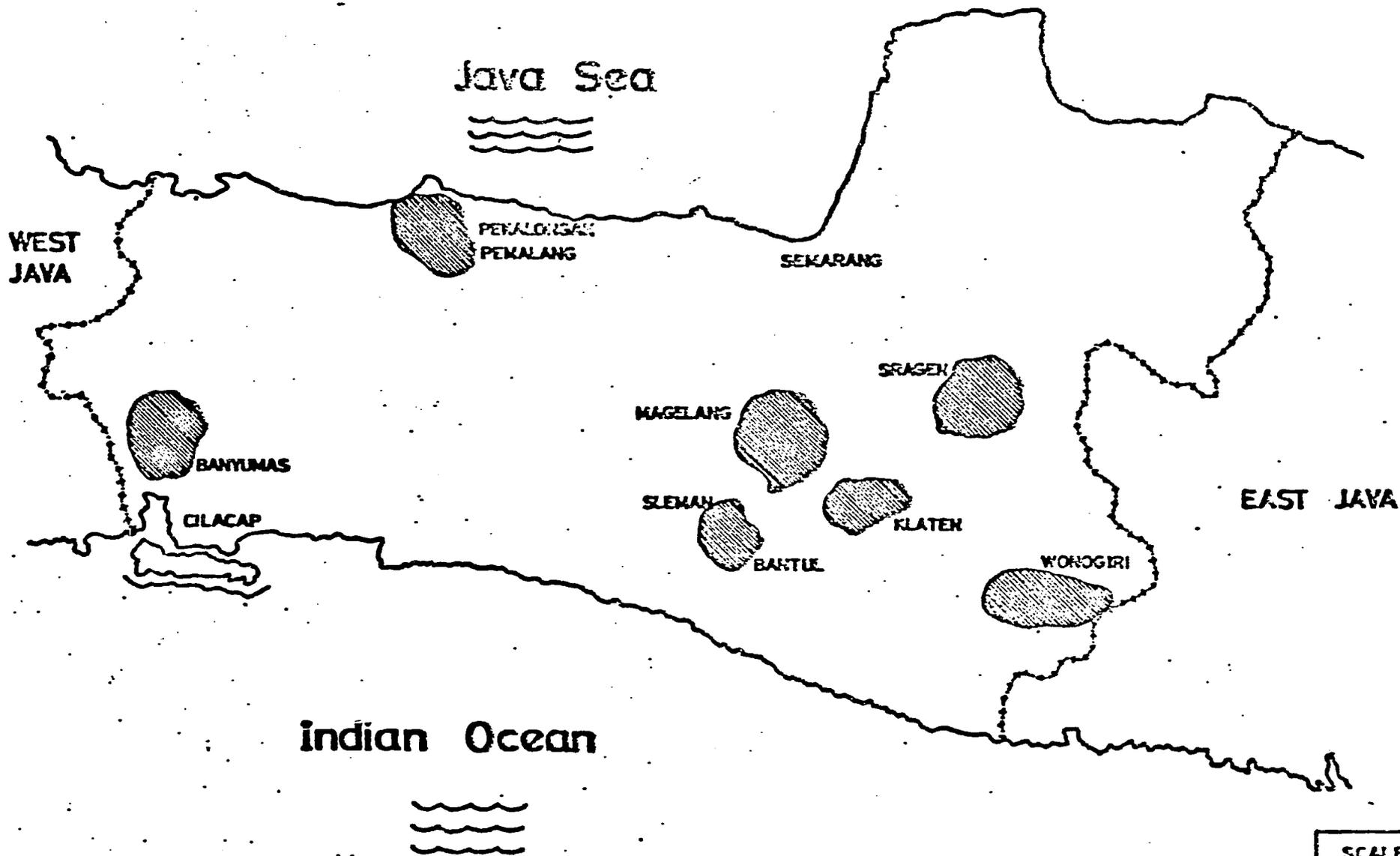
The objective of this project is to assist the Government of Indonesia (GOI) in its plan to provide areawide electric power distribution facilities in ten specified areas.

Seven of the project areas are located in the Province of Central Java, and the distribution systems for these areas will be operated by Perusahaan Umum Listrik Negara (PLN). Information presented in this report applies to the Central Java Project Areas only.

The project will consist of approximately 2,500 kilometers of overhead primary and secondary distribution lines and is planned to encompass at least 440 towns and villages. The completed project will insure the availability of reliable, inexpensive electric service to an estimated 260,000 rural homes. Approximately 130,000 consumers will be connected during the first three years of operation, and the remainder connected during the following twelve years.

CENTRAL JAVA

RURAL ELECTRIFICATION
PROJECT SERVICE AREAS



SCALE : NONE

CTN-105

The seven Central Java Project Service Areas are shown on CIM Map No. 109, page 2 of this report. These seven areas will be connected to the existing PLN, Central Java grid for their power requirements. Project Service Areas, number of villages served, approximate number of consumer connections and the estimated total number of power recipients are as follows :

<u>SERVICE AREA</u>	<u>VILLAGES SERVED</u>	<u>APPROXIMATE NO. OF CONNECTIONS</u>	<u>ESTIMATED NO. OF RECIPIENTS</u>
Klaten	95	25,000	225,000
Pem/Pek	103	20,000	180,000
Bantul	21	20,000	180,000
Wonogiri	54	15,000	135,000
Sragen	49	15,000	135,000
Magelang	83	20,000	180,000
Banyumas	<u>35</u>	<u>15,000</u>	<u>135,000</u>
TOTALS	440	130,000	1,170,000

The above tabulations reflect project expectations after the first three years of commercial operation.

II. SCOPE OF SERVICES

The scope of MAIN's services is to assist the PLN staff located at Semarang and Central Java in all phases of the design and construction of seven rural electric distribution systems. The engineering assistance will consist of, among other things, circuit routing and phasing, structure selection, conductor selection, protection and sectionalizing, and estimating of material and equipment requirements. MAIN will prepare material and equipment bid documents and assist PLN in the evaluation of bids, the preparation and administration of material and equipment supply contracts and the receipt and distribution of materials and equipment. MAIN will also assist PLN during the construction phase of the project by inspecting construction for quality and quantities of work, maintenance of construction schedules and the inventory and documentation of completed construction.

III. PROJECT ACTIVITIES & PROGRESS

A. ENGINEERING

1. DISTRIBUTION SYSTEMS

The preparation of distribution system construction maps by PLN staff continued throughout the reporting period. The status of completion of the construction maps and structure data sheets for the various systems are shown in Table I. During the reporting period, the percentage of completion of the construction drawings for Pekalongan was increased.

During the reporting period, MAIN's staff continued the engineering review of the construction maps for Magelang, Klaten, Pekalongan, Banyumas, Sragen, and Wonogiri. MAIN's review of the construction drawings for Klaten, Magelang, and Sragen were completed during the reporting period.

2. HEADQUARTERS COMPLEXES

During the reporting period, the design of the warehouse was amended to include an additional roll-up door and an interior ramp leading from the newly-specified roll-up door at the loading platform to the floor of the warehouse storage area. The tool crib in the heavy storage area was relocated into the maintenance area to accommodate the interior ramp location. In addition, minor modification of the junction of the outside ramp with the entrance apron was made to facilitate easier movements of material. The amended design was reviewed and approved by AID.

B. PROCUREMENT

1. TOOLS AND EQUIPMENT

All tools and equipment ordered under this contract series have been shipped and all have been received except the

TABLE NO. 1
STATUS OF MAP AND STRUCTURE DATA SHEETS

As of : January 31, 1981.

<u>Construction Beginning Sequence</u>	<u>PROJECT AREA</u>	<u>No. of Maps</u>	<u>P L N</u>			<u>Structure Data Sheets</u>		<u>M A I N Complete Field Checking & Revisions</u>
			<u>% (1) Complete</u>	<u>No. Complete</u>	<u>Date of Completion</u>	<u>% Complete</u>	<u>Date of Completion</u>	
7	BANYUMAS/CILACAP	311	78.4	87	RE 6/30/82	100	9/30/80	RE 3/31/82
2	KLATEN	352	100	352	A 4/30/81	100	10/31/80	A 1/31/82
1	MAGELANG	423	100	423	A 12/31/80	100	9/30/80	A 1/31/82
R 6	PEKALONGAN/PEMALANG	560	91.0	392	RE 4/30/82	100	8/31/80	RE 3/31/82
3	SLEMAN/BANTUL	268	100	268	A 5/31/81	100	8/31/80	A 9/30/81
R 5	SRAGEN	364	100	364	A 7/31/81	100	9/30/80	A 1/31/82
4	WONOGIRI	530	100	530	A 10/31/80	100	9/31/80	RE 3/31/82

A - ACTUAL

E - ESTIMATED

R - REVISED

(1) INCLUDES FIELD STAKING

conductor stringing equipment. Some shipments have incurred some loss or damage and replacement of lost or damaged items under insurance coverage is in process.

2. MATERIALS AND EQUIPMENT

A Letter of Commitment covering the two (2) contracts with Walsin Lihwa Electric Wire & Cable Corp. was issued during the reporting period.

Shipments of materials received during the reporting period are shown on Table A-4. The shipping error made by PLP-Brazil (Contract No. Pj. 032/PST/81) in unloading of their shipment at Semarang remains to be finally resolved. Corrective action is being taken by PLP-Brazil; however, that action is not yet concluded.

3. HOUSEWIRING MATERIALS AND METERS

A contract was executed by PLN with General Electric Co. (Pj. 006/PST/82) for instrument transformers and system meters. With this contract signing, all of the seven (7) contracts resulting from this IFB issue has been executed.

4. CONDUCTORS

P.T. Kabelindo Murni is presently under contract No. Pj. 391/PST/81 to supply conductors to PLN for project use. This contract is funded by a loan from the Netherlands. PLN will supplement the quantity of conductors to be supplied for the Project with PLN funding.

5. POLES

As of this reporting period, PLN has received 10,317 wood poles from their pole contractor.

As of this reporting period, the PLN contractor supplying steel poles has delivered and set 15,624 steel RS poles.

As of this reporting period, the PLN contractor supplying concrete poles has delivered and set 842 concrete poles.

6. DISTRIBUTION MATERIALS II

During this reporting period, PLN executed the two (2) contracts related to this supply group.

Those contracts are :

Pj. 001/PST/82 Hijason Industrial (Taiwan) Ltd./
P.T. Sidohita Co.
\$ 138,317.65
Pole Bands and tools.

Pj. 035/PST/82 P.T. Intra Sapta/Titan Engineering
\$ 33,983.44
Grounding connectors

7. HOUSEWIRING MATERIALS II

Bids will be received in response to this IFB on February 9, 1982.

8. DISTRIBUTION MATERIALS III

On January 26, 1982, bids were received and opened by PLN for this IFB. Twenty six (26) bids were received and are now being evaluated.

9. FUNDING

The present accumulated value of funds committed from the U.S. AID Loan, through Letters of Commitment (L/Comm.) and Direct Reimbursement Authorization (DRA), are shown in Table No. 2 on Pages 9 and 9-A of this report.

P.T. Putera Tolhas has requested that a Letter of Credit be issued for payment to be made direct to the manufacturer, rather than by a DRA to them as agent for the manufacturer. A decision has not yet been reached on the matter.

TABLE NO. 2
COMMITTED FUNDS - AID LOAN

As of : January 31, 1981.

<u>NO.</u>	<u>CONTRACT SUPPLIER</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>LETTER OF COMMITMENT</u>	
				<u>BANK</u>	<u>AMOUNT *</u>
Pj. 196/PST/1980	Maison Int'l. Ltd.	\$ 322,267.55	497-T-05207	CitiBank NA	\$ 323,878.89
Pj. 195/PST/1980	New World Research Corp.	821,722.00	497-T-05208	Citibank NA	825,722.00
Pj. 198/PST/1980	Hyundai Corp.	327,804.00	497-T-05209	Citibank NA	329,443.02
Pj. 215/PST/1980	Ohm International	169,185.17)			
Pj. 216/PST/1980	Merican Curtis, Inc.	569,473.00)			
Pj. 223/PST/1980	Ohm International	69,149.63)	497-T-05210	Wells Fargo	1,327,298.00
Pj. 265/PST/1980	Cable Handling & Stringing Equip. Inc.	314,714.96)			
Pj. 269/PST/1980	ITT Export Corp.	198,171.76)			
Pj. 029/PST/1981	Irby Const. Co.	455,516.38)			
Pj. 030/PST/1981	Copperweld Industries	390,177.99)	497-T-05214	Citibank NA	864,991.63
Pj. 031/PST/1981	McGraw Edison Co.	87,619.20)			
Pj. 032/PST/1981	Produtos Para Linhas Preformados Ltda.	144,831.00)	497-T-05215	American Express	233,612.46
Pj. 296/PST/1981	P.T. Mataram Indah	131,795.78	052-26	DRA	131,795.78
Pj. 297/PST/1981	P.T. Elprima Agung	478,345.08	052-27	DRA	478,345.08
Pj. 156/PST/1980	Walsin Lihwa	24,261.50)			
Pj. 170/PST/1980	Walsin Lihwa	878,750.00)	497-T-05229	Chase Manhattan	907,526.56

<u>NO.</u>	<u>CONTRACT SUPPLIER</u>	<u>AMOUNT</u>	<u>NO.</u>	<u>LETTER OF COMMITMENT</u>	
				<u>BANK</u>	<u>AMOUNT</u> *
Pj. 148/PST/1981	Hyosung Corp.	\$ 1,640,840.00	497-T-05223	Chase Manhattan	\$ 1,649,044.20
Pj. 157/PST/1981	P.T. Putera Tolhas	24,164.00	052-30	DRA	24,164.00
Headquarter Complex Construction		1,698,000.00	052-25	DRA	1,698,000.00
PRESENT TOTAL		: \$ 8,746,789.00			\$ 8,793,821.62

* Includes Bank Charges.

Table A-3 shows additional details of contracts, L/Comm, and L/C.

C. CONSTRUCTION

1. DISTRIBUTION SYSTEMS

Line construction continued with pole setting activity at all sites, framing activity at all sites except Sragen, and conductor stringing activity at all sites except Sragen and Wangon. Data showing construction units installed are shown in Table 3. This framing and conductor activity is being accomplished with materials withdrawn from PLN's stock for other projects.

2. HEADQUARTERS COMPLEXES

PLN and AID have agreed to reduce construction costs of the facilities, in an effort to stay within the limit of funding allocated, by reducing the number of air conditioners to be installed and to amend the paint specifications. Six (6) air conditioners will be eliminated in each office building and two (2) air conditioners will be eliminated in each warehouse building. The paint to be designated for use will be less costly than the paint originally specified.

Weather conditions hampered construction work at all sites; however, lost time was moderate and within the range anticipated for the rainy season.

The estimated percentages of completion of site facilities are shown on Table 4.

D. PROJECT PROGRESS

Project completion is estimated to be 25.17 % as compared to scheduled completion of 26.42 %.

LEGEND

- 1 - REPORTING PERIOD
 2 - TOTAL TO DATE
 3 - % COMPLETE

TABLE 3
SUMMARY OF CONSTRUCTED FACILITIES
DISTRIBUTION SYSTEMS

SITE (1)	POLE (2)	FRAMING (CKT KM)			CONDUCTORS (CKT KM)			TRANSFORMERS APPARATUS (9)	
		3 \emptyset (3)	1 \emptyset (4)	SEC (5)	3 \emptyset (6)	1 \emptyset (7)	SEC (8)		
KLATEN	-1	887	8.73	4.61	23.92	5.32	2.96	3.64	-
	-2	4105	10.7	7.37	41.92	5.32	2.96	3.64	-
	-3	38.8	16.7	2.9	14.3	8.3	1.2	1.2	-
MAGELANG	-1	275	-	9.45	20.87	-	6.67	2.79	-
	-2	3076	-	14.23	35.97	-	6.67	2.79	-
	-3	44.5	-	5.0	44.4	-	2.3	3.4	-
PEKALONGAN	-1	432	-	11.25	1.44	-	1.44	1.40	-
	-2	2848	-	11.25	1.44	-	1.44	1.40	-
	-3	20.1	-	3.4	0.5	-	0.4	0.5	-
SLEMAN/BANTUL	-1	150	5.8	1.01	13.59	-	2.17	1.66	-
	-2	3777	5.8	6.21	24.89	-	2.17	1.66	-
	-3	54.4	13.0	4.0	14.0	-	1.0	1.0	-
SRAGEN	-1	796	-	-	-	-	-	-	-
	-2	3986	-	-	-	-	-	-	-
	-3	50.2	-	-	-	-	-	-	-
WANGON	-1	897	2.76	-	5.12	-	-	-	-
	-2	1254	2.76	-	5.12	-	-	-	-
	-3	23.0	6.12	-	6.41	-	-	-	-
WONOGIRI	-1	721	7.28	11.44	40.22	2.49	4.26	3.41	-
	-2	3468	7.28	11.44	40.22	2.49	4.26	3.41	-
	-3	31.63	12.4	3.23	15.85	4.24	1.2	1.34	-

T A B L E - 4

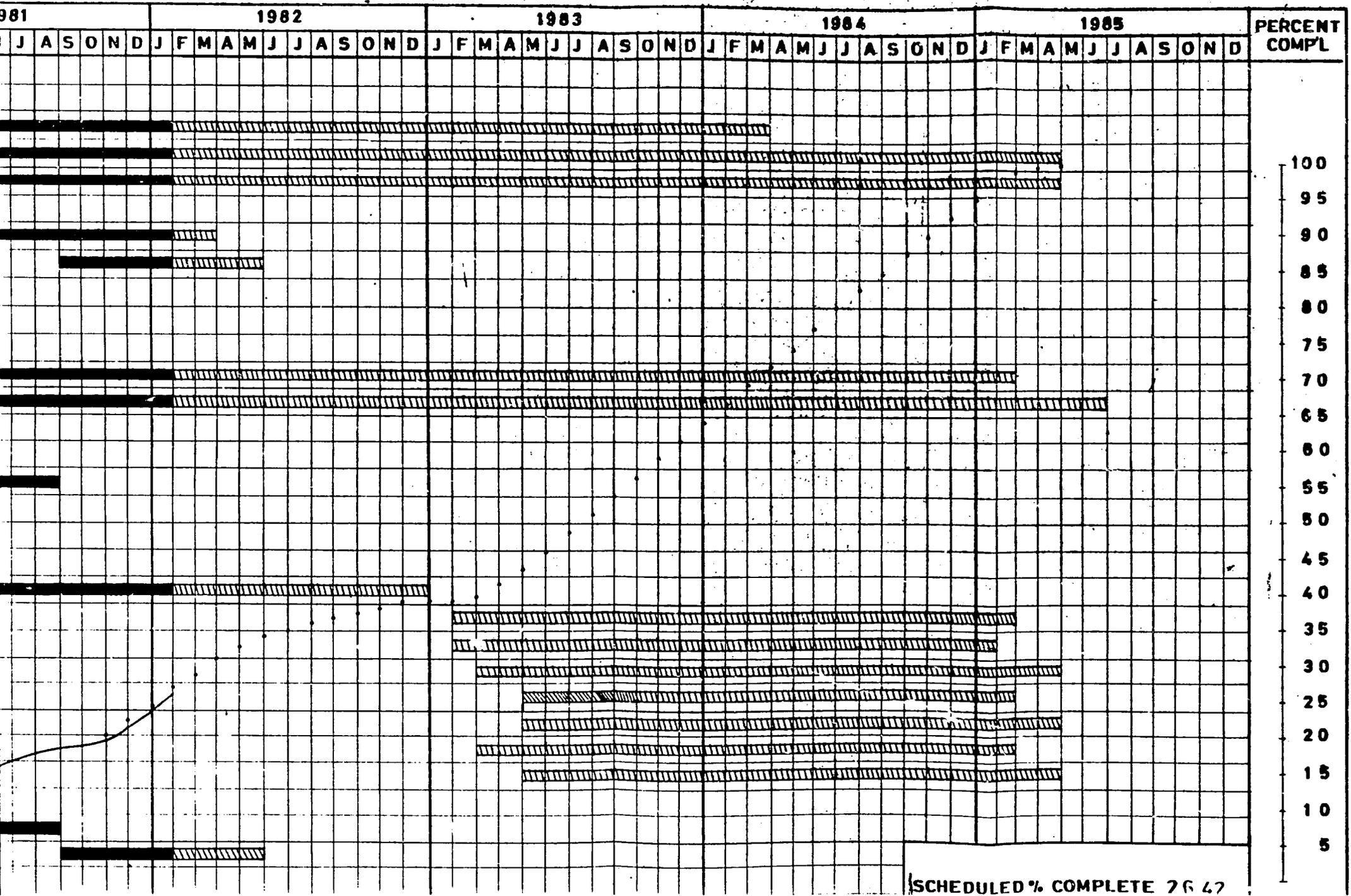
As of : January 31, 1982.

SUMMARY OF CONSTRUCTED FACILITIES
HEADQUARTERS COMPLEXES

ACTIVITY	KLATEN		MAGELANG		PEKALONGAN		SLEMAN BANTUL		SRAGEN		WANGON		WONOGIRI	
	OFFICE	WHSE	OFFICE	WHSE	OFFICE	WHSE	OFFICE	WHSE	OFFICE	WHSE	OFFICE	WHSE	OFFICE	WHSE
EXCAVATION/BACKFILL	75	75	80	80	65	60	85	85	95	95	65	50	70	65
CONCRETE														
BELOW GRADE	90	88	95	95	50	48	95	95	96	96	25	20	40	40
ABOVE GRADE	55	55	80	75	25	25	80	75	95	95	10	10	25	25
CARPENTRY	35	35	45	45	15	15	50	50	65	65	5	5	20	18
MASONRY	65	60	75	70	35	30	80	80	85	85	10		40	35
PLUMBING														
ELECTRICAL	15	15	20	18	10	10	20	20	35	30				
FINISHING														
TRIM														
TILE														
PAINT														
CONTRACT AMOUNT - RUPIAH	152.175.000		157.727.000		175.299.000		154.389.000		152.359.000		165.130.000		165.053.000	
% COMPLETE - PERIOD	14		11		16		19		29		3		14	
% COMPLETE - TO DATE	44		46		54		56		74		20		40	

CONSTRUCTION PROGRESS SYSTEM - CENTRAL JAVA

AS OF January 31, 198
REV 1



SCHEDULED % COMPLETE 76.47

At the Project Coordination Meeting held at PLN - Pusat on January 29, 1982, a reduction in the scheduled line construction period of twenty four (24) months was discussed and it was agreed, with no stated objections, that the scheduled line construction period would be reduced to eighteen (18) months.

This amended schedule does not appear in this report due to time factor and other critical administrative activities now in progress. However, the amended schedule discussed will be contained in the project report beginning February, 1982.

IV. ADMINISTRATION

A. PERSONNEL

Table 5 lists the job classifications and associated manmonths allocated to MAIN. Also shown are the personnel assigned and manmonths consumed for each job classification. The associated manmonths and the percentages related thereto that are shown are as of December 31, 1981.

Mr. H. E. Johnson returned to Jakarta from R & R leave in the U.S.A. on January 15, 1982.

B. LOGISTICS

Table A-2, Appendix, lists the continuing logistic support furnished by PIN to MAIN.

TABLE 5
JOB CLASSIFICATIONS & MANMONTHS

THROUGH : 31 December 1982

JOB CLASSIFICATIONS	LOCATION	AGENCY		PERSONNEL ASSIGNED	MANMONTH		% CONS.	% REMAIN
		PLN	DGC		ALLOCATED	CONSUMED		
Project Director	Jakarta	x	x	D.A. Dowling	40	37.6	94.0	6.0
Business Manager	Semarang	x	x	R.N. Key	39	35.7	89.3	10.7
* Admin. Manager	Jakarta	x	x	C.J. Whitby	-	4.4	-	-
Administrative Ass't.	Jakarta	x	x		24	10.6	44.2	55.8
Area Manager	Semarang	x		H.E. Johnson	24	14.2	59.2	40.8
Lead Elect. Engineer	"	x			38	27.7	72.9	27.1
Civil Engineer	"	x		E.M. Downing	24	24.0	100.0	- 0 -
Architect	-	x		-	3	-	-	100.0
Field Supervisor	Semarang	x		H.E. Earl	37	34.6	93.5	6.5
Field Supervisor	"	x		J.J. Bennett	34	29.9	87.9	12.1
Field Supervisor	"	x		J.V. Hardman	35	31.0	88.6	11.4
Lead Elect. Engineer	Jakarta		x	E. Leffler	39	36.2	92.8	7.2
Elect. Engineer	"		x	J. Kerr	24	29.1	121.3	(21.3)
Elect. Engineer	"		x	E.V. Borja	24	16.1	67.1	32.9
Elect. Engineer	"		x	G.S. Saniel	24	17.4	72.5	27.5
Elect. Engineer	"		x	T.L. Resabal	24	12.3	51.3	48.7
Civil Engineer	"		x	V.H. Sydiongco	24	16.5	68.8	31.2
Senior Draftsman	"		x	D.K. Hoffer	24	21.0	87.5	12.5
Field Supervisor	Lampung		x	F.P. Cachin	35	34.8	99.4	0.6
Field Supervisor	Lombok		x	C.T. Nuez	35	29.3	83.7	16.3
Field Supervisor	Luwu		x	R.M. Garcia	35	35.6	101.1	(1.1)
Material Supervisor	Jakarta		x	P.V. Wilson	12	9.5	77.5	22.5
Boston Office				Various	90	62.3	69.2	30.8
					688	569.6	82.8	17.2
					===	=====		

* Mr. Whitby has been approved by U.S. AID for work on this Project. Provision for this position will be included in a future contract amendment.

✓

V. FINANCIAL

A. Following is a summary of U.S. AID costs invoiced thru 31 December 1981 and PLN costs invoiced through 31 January 1982 :

	<u>Budget</u>	<u>Invoiced To Date</u>	<u>Paid To Date</u>
U.S. AID	\$ 5,355,261	\$ 3,664,648	\$ 3,562,723
PLN		Rp. 75.217.483,-	Rp. 73.848.011,-

B. A detailed breakdown by Contract line item of MAIN's invoices to U.S. AID is as follows :

<u>Description</u>	<u>Budget</u>	<u>Costs To Date</u>		<u>TOTAL</u>
		<u>PLN</u>	<u>DGC</u>	
Salaries & Wages	\$ 1,484,257	546,858	604,756	1,151,614
Fringe Benefits	278,636	82,619	87,091	169,710
Allowances	382,355	123,144	147,694	270,838
Travel & Transportation	959,825	276,894	241,602	518,496
Other Direct Costs	450,037	43,538	184,098	227,636
Overhead	1,390,151	513,307	567,101	1,080,408
Fee	410,000	118,100	127,846	245,946
T O T A L . . .	:\$ 5,355,261 =====	1,704,460 =====	1,960,188 =====	3,664,648 =====

ib

VI. PROBLEM AREAS

A current problem exists with the turn around time of construction funds advanced by AID to PLN for Headquarters Complex construction payment. Construction progress is such on several sites that PLN cannot clear the paid construction invoices of progress payments through PLN and AID in sufficient time to acquire a new advance before additional funds are required to pay additional progress payments. PLN, AID and MAIN are attempting to accelerate this administrative activity to minimize, or eliminate this problem.

VII. OFFICIAL VISITS AND TRIPS

A. OFFICIAL VISITS

Mr. Leopold of PLN - Pusat was at Semarang on January 21 and 22, 1982 to review the status of contract tools, material, and equipment being received by PLN.

Messrs. J. D. Baird, and Irwan Surjadi arrived in Central Java on January 26, 1982 to visit the headquarters complexes job sites and review construction progress. Mr. Baird and Mr. Irwan Surjadi returned to Jakarta on January 28, 1982. While in Central Java they visited all job sites.

Mr. D. A. Dowling of Chas. T. Main International, Inc. arrived at Semarang on January 20 and 21, 1982 to discuss and coordinate various project matters with PLN and with Main's Semarang Staff.

During the period, MAIN's field staff members made lengthy trips to all sites to assist PLN construction forces and to review construction drawings in the field.

B. PROJECT COORDINATION MEETINGS

A project coordination meeting was held at PLN - Pusat on January 29, 1982 to review and coordinate various project activities. Officials of PLN and AID and staff members of NRECA and MAIN were in attendance.

VIII. PROJECT CORRESPONDENCE

A. The following communications were issued from MAIN's Semarang office during the reporting period :

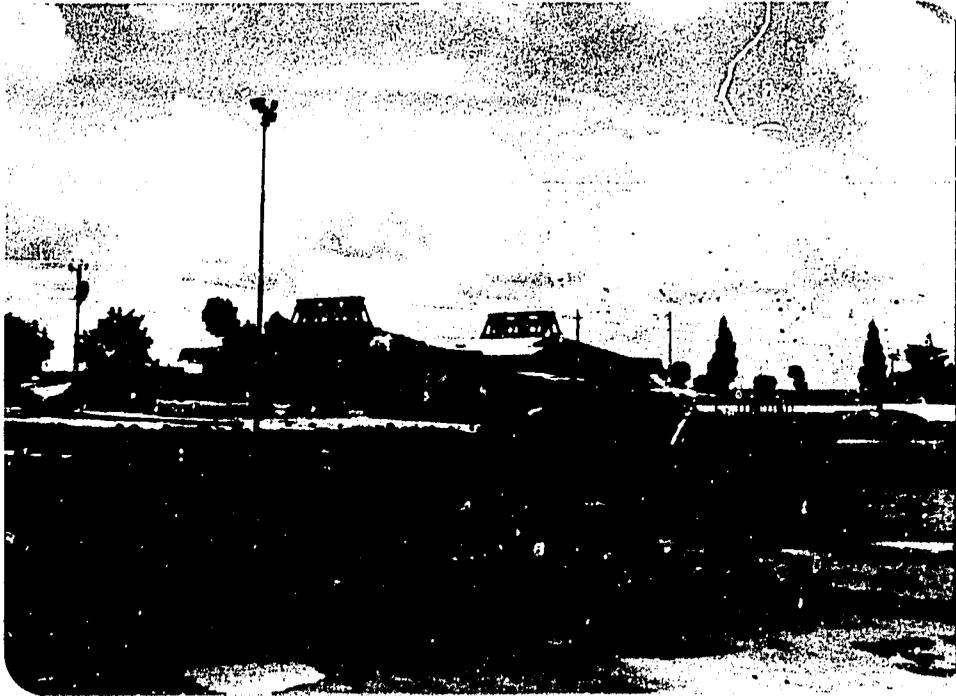
<u>Addressee</u>	<u>Letter No.</u>	<u>Date</u>	<u>Subject</u>
P. I. Ring	S - 8052	Jan. 2, 82	PLN Invoice No. 46
Tlx. P.T. Elprima Agung	S - 8054	Jan. 4, 82	Tender Supply Housewiring Material II.
PLN Pusat	S - 8056	Jan. 4, 82	Shipping Report.
U.S. AID	S - 8058	Jan. 5, 82	Monthly Report P/E Dec. 81.
Tlx. MAIN, Boston	S - 8060	Jan. 11, 82	Time Charges P/E Jan. 14, 82.
Mr. Naryanto	S - 8064	Jan. 11, 82	Const. of Headquarter Complex.
PLN Pusat	S - 8068	Jan. 15, 82	Contract No. Pj.216/PST/80 L/C No. 0103/18046/PL.
P. I. Ring	S - 8070	Jan. 15, 82	Contract No. Pj.148/PST/81 Transformers.
Mr. Soedjono	S - 8072	Jan. 15, 82	Transformers.
U.S. AID	S - 8076	Jan. 18, 82	Const. of Headquarter Complex.
P. I. Ring	S - 8082	Jan. 19, 82	Spare Parts for Maintenance Trucks.
Tlx. P.T. Sidohita	S - 8084	Jan. 20, 82	PLN Contract Pj. 001/PST/82 with Hijason Industrial Ltd.
Tlx. MAIN, Boston	S - 8086	Jan. 20, 82	Parts List
Mr. Naryanto	S - 8088	Jan. 20, 82	Const. of Headquarters Complexes.
Ohm Int'l.	S - 8090	Jan. 20, 82	Contract Pj. 223/PST/80 Compression Tools.
Mr. Doddy	S - 8092	Jan. 20, 82	Material Procurement Contracts.
Mr. Soedjono	S - 8094	Jan. 20, 82	Material Procurement Contracts.
U.S. AID	S - 8096	Jan. 20, 82	Utility & Housing Expenses Invoice No. 17.
New World Research USA	S - 8098	Jan. 21, 82	PLN Contract Pj. 335/PST/81.

<u>Addressee</u>	<u>Letter No.</u>	<u>Date</u>	<u>Subject</u>
Tlx. P.T. Putera Tolhas	S - 8100	Jan. 22, 82	Contract Pj. 157/PST/81
Tlx. New World Research	S - 8102	Jan. 22, 82	Contract Pj. 335 & Pj. 409
P.T. Elprima Agung	S - 8104	Jan. 22, 82	Material
Mr. Dokly	S - 8106	Jan. 23, 82	Contract Pj. 422/PST/81
Mr. Soedjono	S - 8108	Jan. 23, 82	Contract Pj. 422/PST/81
Mr. Thompson	S - 8110	Jan. 23, 82	Contract Pj. 006/PST/82
PLN Pusat	S - 8112	Jan. 23, 82	Pj. 001/PST/82 Contract Amendment.
Tlx. ITT Export	S - 8114	Jan. 25, 82	Contract Pj. 269/PST/80
Tlx. P.T. Elprima Agung	S - 8116	Jan. 29, 82	Contract Pj. 297/PST/81.
Mr. Mastur	S - 8120	Jan. 30, 82	Truck Parts
PLN Pusat	S - 8122	Jan. 30, 82	Proposed Amendment to Contract Pj. 001/PST/82.

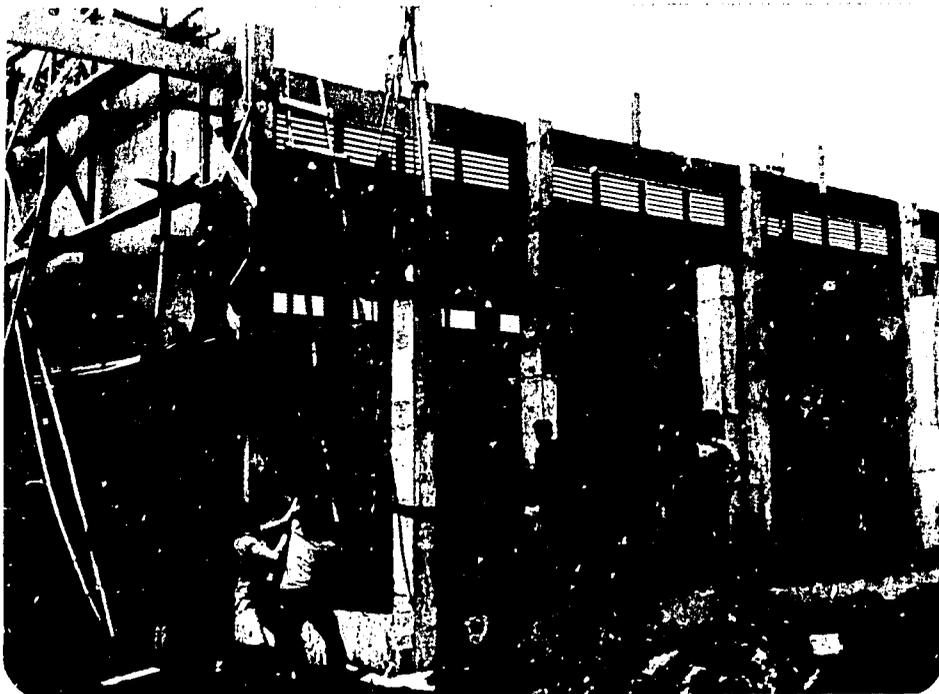
B. The following communications were issued from MAIN's
Jakarta office during the reporting period :

<u>Addressee</u>	<u>Letter No.</u>	<u>Subject</u>
Ir. Wiratmoko Setiadji	J - 4798	R.E. Project. Housewiring Materials II Solicited Bidders.
Ir. J.J. Rumondor	J - 4803	Schedule for Coordination Meeting Central Java Rural Electrification Project.
Yeomans	J - 4804	Housewiring Materials II.
J.D. Baird	J - 4805	Substitution of # 2 ACSR for # 1/0 ACSR Secondary.
Ir. Soedarso	J - 4807	Letters of Commitment and Credit.
Ir. A. Andoyo	J - 4809	Contract No. Pj. 148/PST/81.
U.S. AID	J - 4818	Contract No. AID/ASIA-C-1357 Invoice No. AID-98.
PLN Pusat Personnel	J - 4819	Invitation for Coordination Meeting # 8.
Ir. Soedarso	J - 4824	Contract Pj. 265/PST/80, Amendment No. 1

<u>Addressee</u>	<u>Letter No.</u>	<u>Subject</u>
All Concerned	J - 4827	The minutes of Coordination Meeting # 7. (Comments and Corrections).
R.P. Phompson	J - 4828	Contract Pj. 422/PST/81.
R.P. Thompson	J - 4836	Contract Pj. 001/PST/82.
Ms. Mary Lewellen	J - 4837	Contract No. Pj.296/PST/81. P.T. Mataram Indah.
Ms. Mary Lewellen	J - 4838	Contract Pj. 297/PST/81 P.T. Elprima Agung.
All Concerned	J - 4841	Schedule for Coordination Meeting # 8.
Ir. Soedarso	J - 4849	Performance Bonds for Contract No. Pj. 265/PST/80.
Ir. A. Andoyo	J - 4858	Estimate Total Cost of Material Procurement. USAID Loan 497-T-052.
Ir. A. Andoyo	J - 4862	Contract Number Pj. 148/PST/81.
U.S. AID	J - 4868	Contract No. AID/ASIA-C-1357 RE Invoice No. AID-99.
Ir. A. Andoyo	J - 4870	Contract Pj. 354/PST/81. Performance Bond Expiration Date.



Sragen - Office truss and fascia (listplank) erection completed.
Corrugated asbestos roof covering started.



Bantul - Warehouse loading dock roof truss erection.



Magelang - Warehouse vehicle maintenance area.



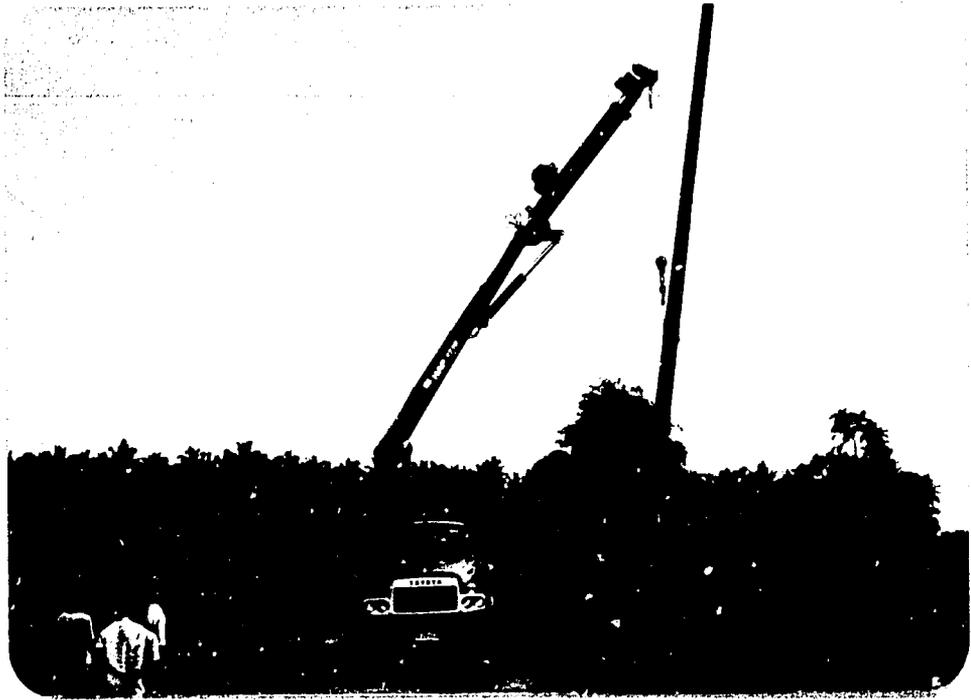
Klaten - Interior scaffolding erected in preparation for truss erection.



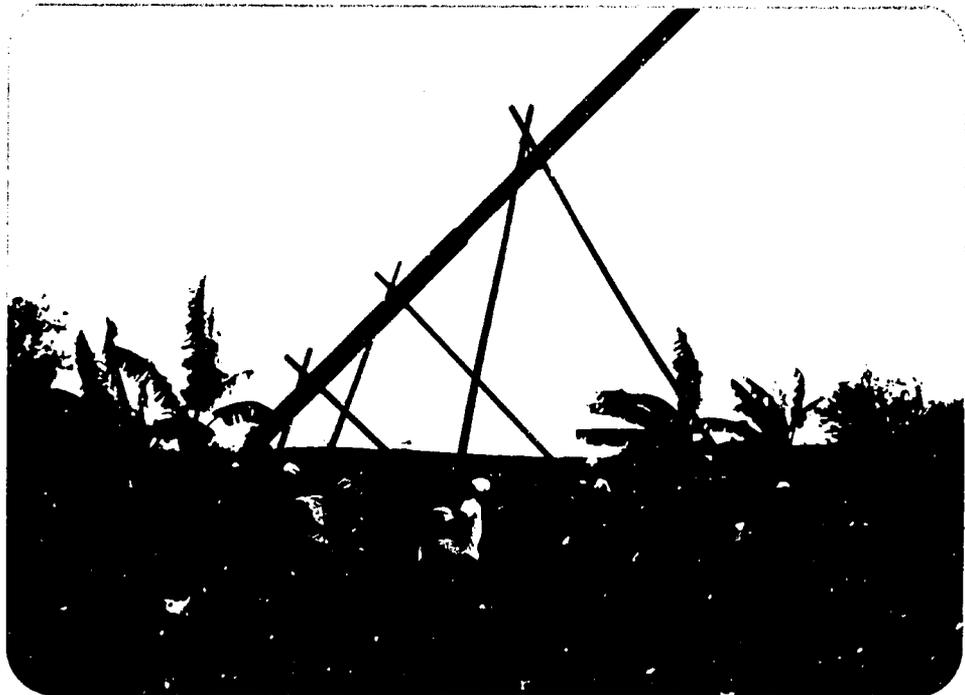
KLATEN



KLATEN



BANTUL



MAGELANG

TABLE A - 1

PRE DESIGN LINE STAKING

<u>Service Area</u>	<u>No. Villages</u>	<u>Circuit Length - Total KM.</u>			<u>% of Feasibility Study Requirements</u>
		<u>Three Phase</u>	<u>Single Phase</u>	<u>Sec. Only</u>	
Sleman/Bantul	21	30	192.8	172.6	130
Banyumas	35	45.6	135.6	64.6	102
Klaten	102	64.5	246.8	303.8	112
Magelang	83	51.6	277.8	86.1	131
Pemalang/ Pekalongan	136	73.1	226.1	197.7	153
Sragen	55	35.1	217.3	236.4	149
Wonogiri	54	58.7	346.5	255.7	181

TABLE A-2
LOGISTICS SUPPORT

<u>PERSONNEL</u>	<u>HOUSING</u>		<u>TRANSPORT</u>
	<u>LOCATION</u>	<u>BY</u>	
J. J. Bennett & Family	Semarang	PLN	PLN
D. A. Dowling & Family	Jakarta	AID	Vehicle by PLN operation by DGC
E. M. Downing & Family	Semarang	PLN	PLN
H. E. Earl	Semarang	PLN	PLN
J. V. Hardman & Family	Semarang	PLN	PLN
H. H. Johnson	Semarang	PLN	PLN
R. N. Key & Family	Semarang	PLN	PLN

PLN provides offices at Semarang for MAIN and full logistics support consisting of secretarial personnel, drivers and all operational necessiters.

PLN provides office facilities at Jakarta and partial operational support for that office.

**SUMMARY
MATERIALS**

CONTRACT No	CONTRACTOR	MATERIALS	INVOICE TOTAL	BILL OF L No
Pj. 196/PST/80	Maison International	Communications Equipment Maint. Shop Equipment	\$ 224,857.57 97,193.84	007 007
Pj. 195/PST/80	New World Research Corp. "	Grounding Mat'l - Partial " " " Watt Hour Test Tables Headquarters Test Equip. " " " Ground Rods	150,218.80 189,767.60 142,450.00 50,392.00 4,980.00 170,000.00	1 1 2 1
Pj. 269/PST/80	ITT Export Corp.	Distribution Line Tools	198,171.76	1
Pj. 029/PST/81	Irby Construction Co.	Reclosers & Service DE	330,356.61	25
Pj. 198/PST/80	Hyundai Corp.	Ground Wire Fittings, Staples	327,804.00	PSM-1
Pj. 216/PST/80	Merican Curtis	Trucks, Spare Parts	569,473.00	1
Pj. 032/PST/80	Produtas Para Linhas	Conductor Specialties	144,831.00	1
Pj. 148/PST/81	Hyoosung	Transformers	950,904.00	15 M.1
Pj. 030/PST/81	Copperweld	Guy Wire	390,112.70	.
Pj. 215/PST/80	Ohm	Distribution Hand Tools	169,185.17	.
Pj. 223/PST/80	Ohm	Compression Tools	79,493.95	2
Pj. 265/PST/80	Cable Handling & Stringing	Stringing Equipment	11,711.00	.

ARY OF SHIPPING ALS & EQUIPMENT

TABLE A-4

AS OF: January 31, 1981

SHEET 1 OF 1

LOADING DATE	DATE OF ARRIVAL		REMARKS
	PORT	WAREHOUSE	
Jan. 23, 1981	March 1981	April 1, 1981	Complete Shipment - Insurance Claim
Jan. 23, 1981	March 1981	April 1, 1981	Complete Shipment - Insurance Claim
April 9, 1981	Aug. 14, 1981	Sept 16, 1981	Partial Shipment - Insurance Claim
June 6, 1981		Sept 16, 1981	Partial Shipment - Insurance Claim
June 5, 1981	Aug. 15, 1981	Sept 23, 1981	Complete
June 8, 1981	Aug. 18, 1981	Sept 16, 1981	Partial Shipment - Insurance Claim
April 9, 1981			
Sept. 9, 1981			
July 10, 1981	Sept. 20, 1981	Sept 30, 1981	Complete Shipment - Insurance Claim
Aug. 22, 1981			Partial Shipment
July 22, 1981	Aug. 13, 1981	Sept 24, 1981	Complete Shipment - Insurance Claim
July 23, 1981			Complete Shipment
Aug. 25, 1981		Dec. 5, 1981	Partial Shipment - Insurance Claim
Nov. 28, 1981		Jan. 12, 1982	Partial
Oct. 19, 1981			Partial
Sept. 9, 1981	Dec. 2, 1981	Dec 22, 1981	Complete
Aug. 24, 1981		Dec 22, 1981	Complete
Nov. 14, 1981			Complete

SUMMARY OF CONTRACT FOR MA

CONTRACT No	CONTRACTOR	DATE OF CONTRACT	EFFECTIVE DATE OF CONTRACT	FOR SUPPLY OF	CORRES
Pj. 296/PST/81	P.T. Mataram Indah	12-9-81		Housewiring Rp. 84.217.500,- Devices-2	DRA - \$
Pj. 297/PST/81	P.T. Elprima Agung Teknik	12-9-81		Housewiring Rp. 85.072.500,- Devices-1 Protective Devices Rp. 155.182.500,- Lamps Rp. 65.407.500,-	DRA - \$
Pj. 335/PST/81	New World Research Corp.	5-10-81		Misc. Materials \$ 358.956,00	
Pj. 354/PST/81	Hijason Industrial (Taiwan) Ltd.	13-10-81		Misc. Materials \$ 490.380,15	
Pj. 409/PST/81	New World Research Corp.	2-12-81		Housewiring Cable \$ 1,586,065.00	
Pj. 422/PST/81	General Electric Co.	10-12-81		Residential - Commercial Meters \$ 2,740,031.40	
Pj. 006/PST/82	General Electric Co.	6-1-82		Instrument Transformers & System Meters \$ 41,574.28	
Pj. 035/PST/82	P.T. Intra Sapta/Titan Engineering	22-1-82		Grounding Connectors \$ 33,983.44	
Pj. 001/PST/82	Hijason Industrial/ P.T. Sidohita Co.	5-1-82		Pole Bands & Bolts \$ 138,317.65	

**CONTRACT STATUS
MATERIAL & EQUIPMENT**

TABLE A-3

AS OF : January 31, 1981.

SHEET 2 OF 2

RESPONDENT BANK	LETTER OF COMMITMENT			LETTER OF CREDIT			
	No	DATE	EXPIRE. DATE	BANK INDONESIA No	EXPIRY DATE	CORRESPONDENT No	BANK DATE
\$ 151,795.78	052-26						
\$ 478,345.08	052-27						

SUMMARY OF CC CONTRACT FOR MA

CONTRACT No	CONTRACTOR	DATE OF CONTRACT	EFFECTIVE DATE OF CONTRACT	FOR SUPPLY OF	CORRE:
Pj. 195/PST/80	New World Research Corp.	30-7-80		Lab. & Test Equipment \$ 197,822.00 Vehicular Equipment 113,900.00 Ground Rods 510,000.00	CITI
Pj. 196/PST/80	Maison International Ltd.	18-8-80		Communication Equipment 225,073.71 Maint. Shop Equipment 97,193.84	CITI
Pj. 198/PST/80	Hyundai Corp.	5-8-80		Grounding Material 327,804.00	CITI
Pj. 215/PST/80	Ohm International, Inc.	8-9-80		Distr. Hand Tools 169,185.17	WELLS INTEI
Pj. 216/PST/80	American Curtis, Inc.	8-9-80		Maintenance Trucks 569,473.00	WELLS INTEI
Pj. 223/PST/80	Ohm International, Inc.	23-9-80		Compression Tools 69,149.63	WELLS INTEI
Pj. 265/PST/80	Cable Handling & Stringing Equipment Inc.	27-10-80		Stringing Equipment 314,714.96	WELLS INTEI
Pj. 269/PST/80	ITT Export Corp.	10-11-80		Distr. Line Tools 198,171.76	WELLS INTEI
Pj. 029/PST/81	Irby Construction Co.	20-2-81	15-7-81	Service Materials 268,107.50 Protective devices 187,408.88	CITI
Pj. 030/PST/81	Copperweld Industries	23-2-81	10-7-81	Guy Strand 390,177.99	CITI
Pj. 051/PST/81	McGraw Edison Co.	23-2-81	17-6-81	Protective devices 87,619.20	AMERICAN
Pj. 052/PST/81	Produtos Para Linhas Preformadas LTDA	25-2-81	15-6-81	Conductor Specialties 144,831.00	AMERICAN
Pj. 148/PST/81	Hyosung Corp.	4-5-81		Distribution Transformers 1,640,840.00	CHAS
Pj. 156/PST/81	Walsin Lihwa Electric Wire & Cable Corp.	27-5-81		File Wire 24,261.50	CHASE
Pj. 157/PST/81	P.T. Putera Tolhas	9-5-81		Miscellaneous Materials - 1 24,164.00	
Pj. 170/PST/81	Walsin Lihwa Electric Wire & Cable Corp.	27-5-81		Service Conductor-1 878,750.00	CHASE

**CONTRACT STATUS
MATERIAL & EQUIPMENT**

TABLE A-3

AS OF : January 31, 1981.

SHEET 1 OF 2

RESPONDENT BANK	LETTER OF COMMITMENT			LETTER OF CREDIT			
	No	DATE	EXPIRE DATE	BANK INDONESIA No	EXPIRE DATE	CORRESPONDENT No	BANK DATE
TI BANK N.A.	497-T-05208	2-1-81	1-11-82	0103/17157/PL	31-7-82		
TI BANK N.A.	497-T-05207	25-11-80	1-11-82	0103/16410/PL	31-12-81		
TI BANK N.A.	497-T-05209	21-1-81	1-11-82	0103/16903/PL	30-4-82		
LLS FARGO BANK INTERNATIONAL	497-T-05210	2-3-81	30-5-83	0103/17609/PL	31-5-82		
LLS FARGO BANK INTERNATIONAL	497-T-05210	2-3-81	30-5-83	0103/18046/PL	31-12-81	36041	24-6-81
LLS FARGO BANK INTERNATIONAL	497-T-05210	2-3-81	30-5-83	0103/17610/PL	31-5-82		
LLS FARGO BANK INTERNATIONAL	497-T-05210	2-3-81	30-5-83	0103/17611/PL	31-5-82		
LLS FARGO BANK INTERNATIONAL	497-T-05210	2-3-81	30-5-83	0103/17612/PL	31-5-82		
TI BANK N.A.	497-T-05214	19-6-81	15-9-83	0103/18075/PL	31-12-82	10783079	
TI BANK N.A.	497-T-05214	19-6-81	15-9-83	0103/18076/PL	31-12-82	10783080	10-7-81
CAN EXPRESS BANK	497-T-05215	19-6-81	15-9-83	0103/18077/PL	31-12-82		
CAN EXPRESS BANK	497-T-05215	19-6-81	15-9-83	0103/18078/PL	31-12-82	E 057905	15-6-81
ASE MANNATTAN	497-T-05223	21-10-81	15-9-83	0103/18906/PL	31-12-82		
ASE MANNATTAN	497-T-05229	22-1-82	15-9-83				
ASE MANNATTAN	497-T-05229	22-1-82	15-9-83				

TABLE A-5
PERCENT COMPLETION
ENGINEERING & CONSTRUCTION PROGRESS

<u>PERIOD</u>	<u>SCHEDULED</u>	<u>ACTUAL</u>	<u>PERIOD</u>	<u>SCHEDULED</u>	<u>ACTUAL</u>
OCT. 78	-	.04	JAN. 82	26.42	25.17
NOV. 78	-	.07	FEB. 82	28.59	
DEC. 78	-	.15	MAR. 82	30.87	
JAN. 79	-	.29	APR. 82	32.6	
FEB. 79	-	.43	MAY 82	33.87	
MAR. 79	-	.60	JUN. 82	34.71	
APR. 79	-	.77	JUL. 82	35.53	
MAY 79	-	.95	AUG. 82	36.34	
JUN. 79	-	1.18	SEPT. 82	37.16	
JUL. 79	-	1.41	OCT. 82	37.86	
AUG. 79	-	1.64	NOV. 82	38.41	
SEPT. 79	-	1.86	DEC. 82	38.56	
OCT. 79	-	2.07	JAN. 83	38.78	
NOV. 79	-	2.27	FEB. 83	39.45	
DEC. 79	-	2.42	MAR. 83	41.2	
JAN. 80	-	2.57	APR. 83	43.36	
FEB. 80	-	2.73	MAY 83	45.76	
MAR. 80	-	2.86	JUN. 83	48.26	
APR. 80	-	2.99	JUL. 83	50.8	
MAY 80	-	3.12	AUG. 83	53.39	
JUN. 80	-	3.25	SEPT. 83	56.0	
JUL. 80	-	3.32	OCT. 83	58.63	
AUG. 80	-	3.51	NOV. 83	61.26	
SEPT. 80	-	3.64	DEC. 83	63.92	
OCT. 80	-	3.77	JAN. 84	66.58	
NOV. 80	-	4.52	FEB. 84	69.24	
DEC. 80	-	5.66	MAR. 84	71.91	
JAN. 81	-	7.31	APR. 84	74.57	
FEB. 81	-	9.11	MAY 84	77.22	
MAR. 81	-	10.95	JUN. 84	79.87	
APR. 81	-	12.86	JUL. 84	82.49	
MAY 81	-	14.68	AUG. 84	85.08	
JUN. 81	-	16.24	SEPT. 84	87.58	
JUL. 81	-	17.24	OCT. 84	90.03	
AUG. 81	-	17.92	NOV. 84	92.43	
SEPT. 81	-	18.45	DEC. 84	94.77	
OCT. 81	20.17	19.34	JAN. 85	97.05	
NOV. 81	22.21	20.85	FEB. 85	98.87	
DEC. 81	24.37	22.60	MAR. 85	99.44	
			APR. 85	100.0	