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AGENCY OF MINISTRY OF MINES AND ENERGY
GOVERNMENT OF THE REPUBLIC OF INDONESIA**



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



CHAS.T. MAIN INTERNATIONAL, INC

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

**MONTHLY REPORT NO. 30
FOR
NOVEMBER, 1981**

**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.

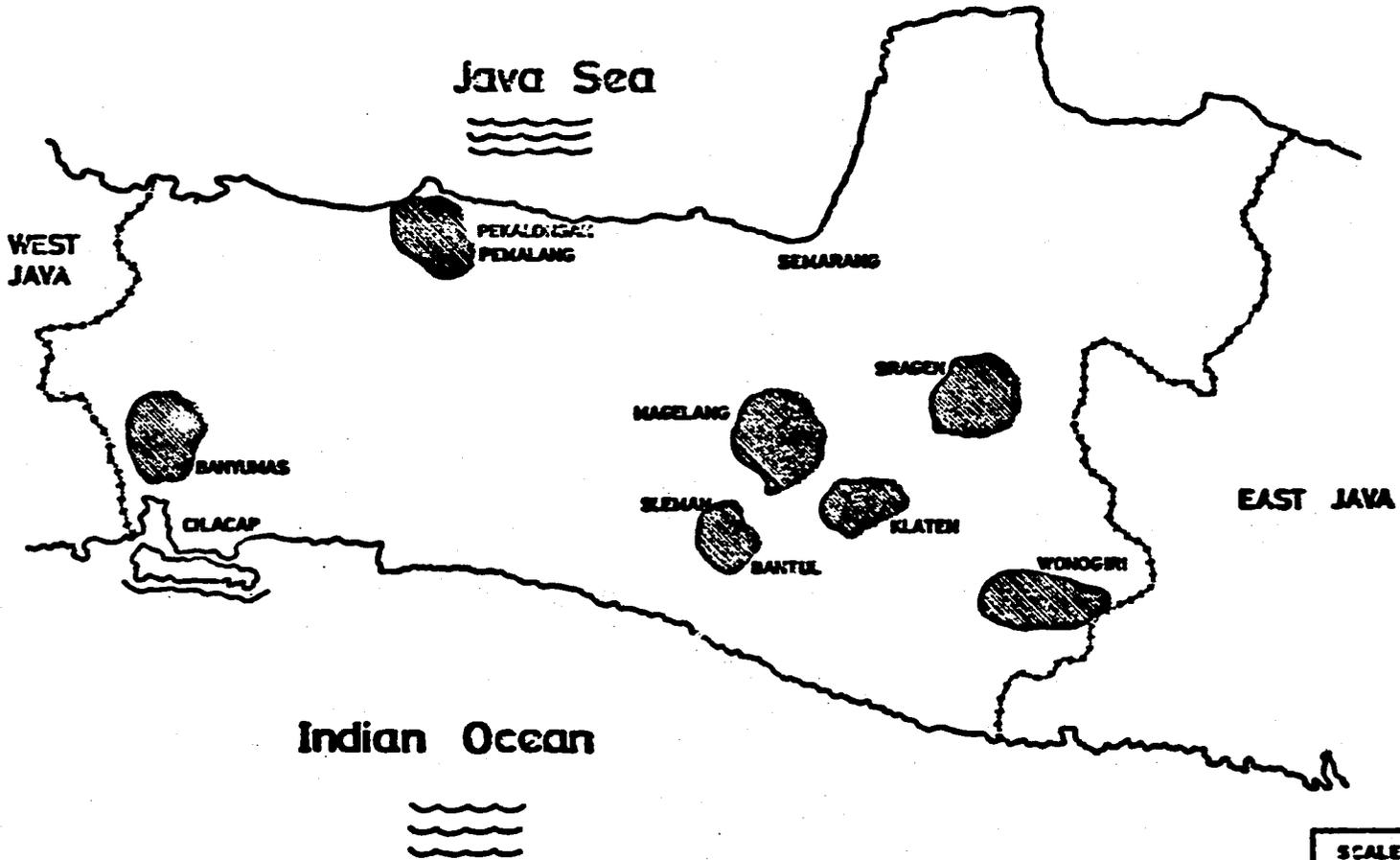
B. DESCRIPTION OF PROJECT

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



- 2 -

SCALE : NONE
CTN-109

The seven Central Java Project Service Areas are shown on CTM Map No. 109, page 2 of this report. Those 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 1. 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.

2. HEADQUARTERS COMPLEXES

There was no engineering activity required during the reporting period.

TABLE NO. 1

As of : November 30, 1981.

STATUS OF MAP AND STRUCTURE DATA SHEETS

Construction Beginning Sequence	PROJECT AREA	No. of Maps	Construction Maps			Structure Data Sheets		M A I N Complete Field Checking & Revisions
			% (1) Complete	No. Complete	Date of Completion	% Complete	Date of Completion	
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	RE 12/31/82
1	MAGELANG	423	100	423	A 12/31/80	100	9/30/80	RE 1/31/81
R 6	PEKALONGAN/PEMALANG	560	89.5	364	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	RE 4/30/82
4	WONOGIRI	530	100	530	A 10/31/80	100	9/31/80	RE 2/28/81

A - ACTUAL

E - ESTIMATED

R - REVISED

(1) INCLUDES FIELD STAKING

B. PROCUREMENT

1. TOOLS AND EQUIPMENT

All contractors in this procurement group have initiated shipments of items supplied by their respective contracts. In most instances, shipments were complete. All tools and equipment furnished under these contracts, as they are presently written, should be received by January 31, 1981.

2. MATERIALS AND EQUIPMENT

Three (3) contracts in this procurement group remain to be funded with Letters of Commitment and Letters of Credit. Three (3) of the contractors in this procurement group here made partial shipments of materials and one (1) contractor has made a complete shipment of materials.

3. HOUSEWIRING MATERIALS AND METERS

Two (2) contracts in this procurement group were executed during the preceding reporting period. A contract with New World Research Corp. for miscellaneous materials was executed October 5, 1981, and a contract with Hijason Industrial (Taiwan) Ltd. was executed on October 13, 1981. Four (4) of the seven (7) contracts in this procurement group are now executed.

4. CONDUCTORS

PLN has contracted with P.T. Kabelindo Murni to supply conductors for the Project, funded by a Netherlands Government loan.

5. POLES

During the reporting period, the wood pole supplier delivered 1631 treated wood poles to the Project. A total of 10350 wood poles have been delivered.

As of this reporting period, the PLN contractor supplying steel poles has delivered and set 12,566 steel RS poles.

As of this reporting period, the PLN contractor supplying concrete poles has delivered and set 44 concrete poles.

6. DISTRIBUTION MATERIALS II

PLN has issued Notices of Award to two (2) bidders and supply contracts are being executed.

7. HOUSEWIRING MATERIALS II

PLN is preparing to advertise this IFB, the IFB having been approved by AID.

8. DISTRIBUTION MATERIALS III

PLN advertised this IFB on November 26, 1981. Bid documents will be issued December 1, 1981 and bids will be received January 26, 1982.

9. FUNDING

The present accumulated value of procurement contracts and funds committed by Letters of Commitment from the USAID loan are shown in Table 2.

A spread sheet showing additional details of contracts, Letter of Commitment and Letters of Credit is contained in the Appendix.

TABLE 2
COMMITTED FUNDS - AID LOAN

As of : November 30, 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	1,326,715.29
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)	497-T-05214	CitiBank NA	849,916.81
Pj. 030/PST/1981	Copperweld Industries	390,177.99)			
Pj. 031/PST/1981	McGraw Edison Co.	87,619.20)	497-T-05215	American Express	233,612.46
Pj. 032/PST/1981	Produtos Para Linhas Preformados Ltda.	144,831.00)			
	Present Total	: \$ 3,870,632.64		Present Total	: \$ 3,889,288.47

* Includes Bank Charges.

C. CONSTRUCTION

1. DISTRIBUTION SYSTEMS

Line construction continued with pole placement activity at all sites. Supply and placement of concrete poles by the contractor was begun at Klaten and Wonogiri. A summary of facilities constructed to date is shown in Table 3.

2. HEADQUARTERS COMPLEXES

Construction proceeded at all sites during the reporting period. Rain hampered continuous construction activity; however, in no case did it stop work for more than a few hours. As the construction progress at most sites has proceeded past the foundation stages, rain will be less likely to completely disrupt construction.

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

D. PROJECT PROGRESS

Project completion is estimated to be 20.85 % complete as compared to scheduled completion of 22.21 %.

LEGEND

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

TABLE 3

As of : November 30, 1981.

SUMMARY OF CONSTRUCTED FACILITIES
DISTRIBUTION SYSTEMS

SITE (1)	POLE (2)	FRAMING (CKT KM)			CONDUCTORS (CKT KM)			TRANSFORMERS APPARATAS (9)
		3Ø (3)	1Ø (4)	SEC (5)	3Ø (6)	1Ø (7)	SEC (8)	
KLATEN	-1	291	.72	7.0				
	-2	2685	.72	7.0	-	-	-	-
	-3	25.4	0.29	2.0				
MAGELANG	-1	312						
	-2	2648	-	-	-	-	-	-
	-3	38.28						
PEKALONGAN	-1	143						
	-2	2247	-	-	-	-	-	-
	-3	15.84						
SLEMAN/BANTUL	-1	245						
	-2	3430	-	-	-	-	-	-
	-3	49.56						
SRAGEN	-1	247						
	-2	2392	-	-	-	-	-	-
	-3	30.12						
WANGON	-1	283						
	-2	357	-	-	-	-	-	-
	-3	6.57						
WONOGIRI	-1	39						
	-2	2242	-	-	-	-	-	-
	-3	20.45						

ACTIVITY	KLATEN		MAGELANG		PEKALONGAN	
	OFFICE	WISK	OFFICE	WISK	OFFICE	WISK
	Estimated					
EXCAVATION/BACKFILL	65	65	60	60	15	15
CONCRETE						
BELOW GRADE	80	75	85	80	8	6
ABOVE GRADE		15	35	30		
CARPENTRY	10	10	12	10		
MASONRY	55	45	50	45		
PLUMBING						
ELECTRICAL	5	5	5	5		
FINISHING						
TRIM						
TILE						
PAINT						
CONTRACT AMOUNT - RUPIAH	152,175,000		157,727,000		175,299,000	
% COMPLETE - PERIOD	3		3		4	
% COMPLETE - TO DATE	20		19		9	

Best Available Document

TABLE - 4

As of : November 30, 1981.

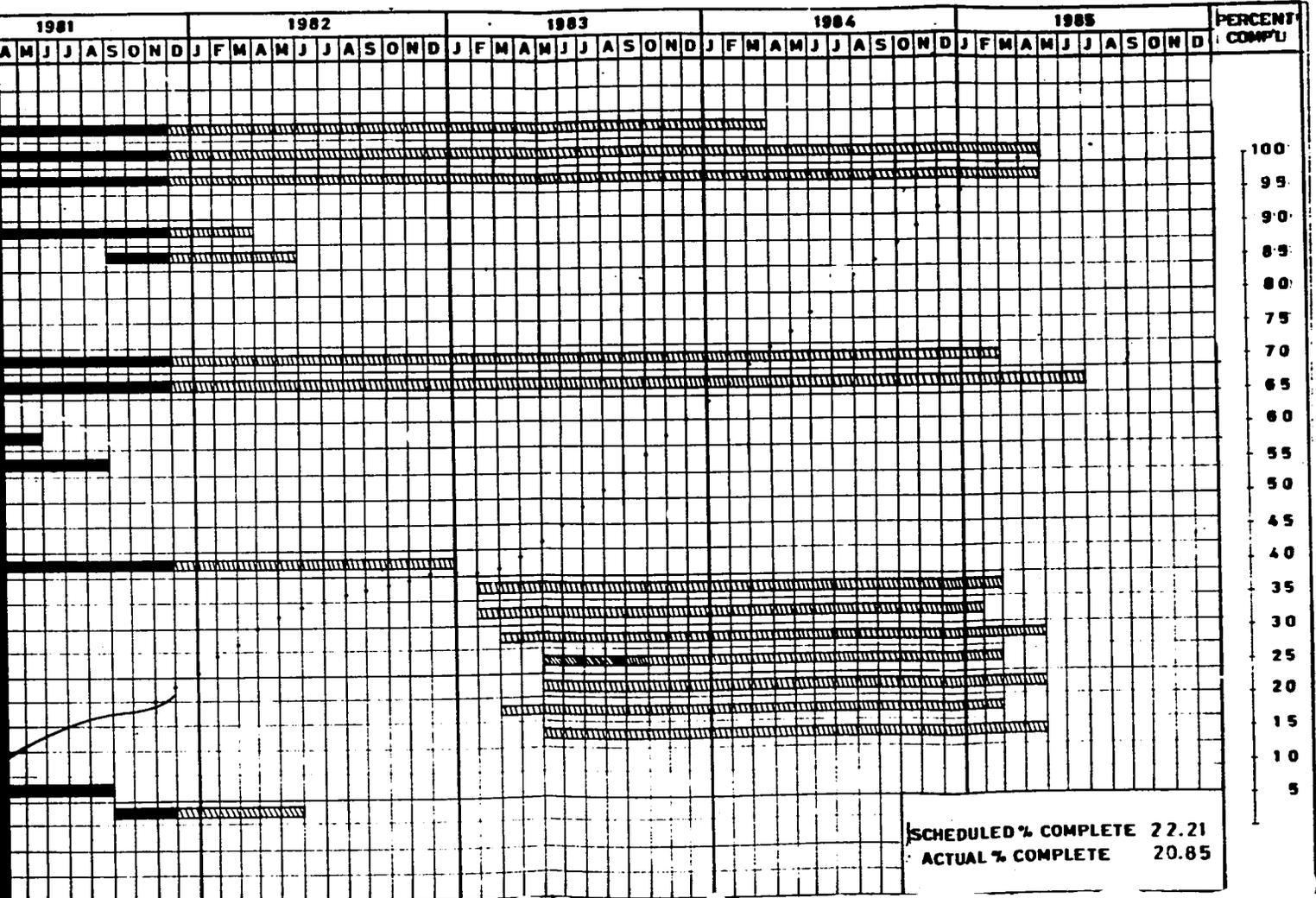
UNSTRUCTURED FACILITIES
PORTERS COMPLEXES
Percentage Complete.

<u>SLEMAN BANTUL</u>		<u>SRAGEN</u>		<u>WANGON</u>		<u>ADNOGIRI</u>	
<u>OFFICE</u>	<u>WHSE</u>	<u>OFFICE</u>	<u>WHSE</u>	<u>OFFICE</u>	<u>WHSE</u>	<u>OFFICE</u>	<u>WHSE</u>
55	50	70	70	12	10	30	25
70	65	96	94	5	5	20	20
15	12	50	35			10	10
12	10	15	10			8	5
50	45	65	50			30	25
5	5	10	8				
154,389,000		152,339,000		163,130,000		163,033,000	
3		3		3		4	
20		32		10		17	

**CONSTRUCTION PROGRESS
ON SYSTEM - CENTRAL JAVA**

Best Available Document

AS OF : November 30, 1985
REV : 1



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 October 8, 1981.

Mr. N. Popov, Main's Manager of International Construction Services, arrived Jakarta October 28, 1981 to coordinate project activities. Mr. Popov departed Indonesia November 7, 1981.

Mr. D.A. Dowling and family left Jakarta November 14, 1981 on R & R. Mr. Dowling plans to return to Jakarta December 6, 1981.

B. LOGISTICS

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

TABLE 5
JOB CLASSIFICATIONS & MANMONTHS

THROUGH : 8 October 1981

JOB CLASSIFICATIONS	LOCATION	AGENCY		PERSONNEL ASSIGNED	MANMONTH		% CONS.	% REMAIN
		PLN	DGC		ALLOCATED	CONSUMED		
Project Director	Jakarta	x	x	D. A. Dowling	40	35.7	89.2	10.8
Business Manager	Semarang	x	x	R. N. Key	39	33.2	85.1	14.9
* Admin. Manager	Jakarta	x	x	C. J. Whitby	-	3.0	-	-
Administrative Ass't.	Jakarta	x	x		24	10.6	44.2	55.8
Area Manager	Semarang	x		H. E. Johnson	24	11.9	49.6	50.4
Lead Elect. Engineer	"	x			38	27.7	72.9	27.1
Civil Engineer	"	x		E. M. Downing	24	21.3	88.8	11.2
Architect	-	x		-	3	- 0 -	-	100.0
Field Supervisor	Semarang	x		H. E. Earl	37	31.9	86.2	13.8
Field Supervisor	"	x		J. J. Bennett	34	27.7	81.5	13.5
Field Supervisor	"	x		J. V. Hardman	35	28.3	80.9	19.1
Lead Elect. Engineer	Jakarta		x	E. Leffler	39	33.2	85.1	14.9
Elect. Engineer	"		x	J. Kerr	24	26.4	10.0	(10.0)
Elect. Engineer	"		x	E. V. Borja	24	13.8	57.5	42.5
Elect. Engineer	"		x	G. S. Saniel	24	15.5	64.6	35.4
Elect. Engineer	"		x	T. L. Resabal	24	9.9	41.3	58.7
Civil Engineer	"		x	V. H. Sydiongco	24	14.3	59.6	40.4
Senior Draftsman	"		x	D. K. Hoffer	24	18.4	76.7	23.3
Field Supervisor	Lampung		x	F. P. Cachir	35	33.0	94.3	5.7
Field Supervisor	Lombok		x	C. T. Nuez	35	27.0	77.1	22.9
Field Supervisor	Luwu		x	R. M. Garcia	35	33.3	95.1	4.9
Materials Supervisor	Jakarta		x	P. V. Wilson	12	6.7	55.8	44.2
Boston Office				Various	90	58.1	64.6	35.4
					688	520.9	75.7	24.3
					=====	=====	=====	=====

* 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.

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X. FINANCIAL

A. Following is a summary of U.S. AID costs invoiced through 8 October 1981 and PLN costs invoiced through 18 November 1981.

	<u>Budget</u>	<u>Invoiced To Date</u>	<u>Paid To Date</u>
U.S. AID	\$ 5,355,261	\$ 3,316,442	\$ 3,133,665
PLN		Rp. 70.945.807,-	Rp. 69.927.960,-

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>PLN</u>	<u>DGC</u>	<u>TOTAL</u>
Salaries & Wages	\$ 1,484,257	498,209	542,260	\$ 1,040,469
Fringe Benefits	278,636	74,054	74,473	148,527
Allowances	382,355	112,711	133,142	245,853
Travel & Transportation	959,825	246,710	218,508	465,218
Other Direct Costs	450,037	40,542	178,213	218,755
Overhead	1,390,151	467,644	508,585	976,229
Fee	410,000	106,996	114,395	221,391
T O T A L	: \$ 5,355,261 *****	1,546,866 *****	1,769,576 *****	3,316,442 *****

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VI. PROBLEM AREAS

The major problem facing the project at this time is the extensive period of delay until basic line construction materials will be available in the field. PLN is attempting to mitigate this problem somewhat by the temporary use of line materials, where possible, from other PLN projects.

VII. OFFICIAL VISITS AND TRIPS

A. OFFICIAL VISITS

Messrs. R. Davis, J.D. Baird, and Irwan arrived in Central Java on November 17, 1981 to visit the headquarters complexes job sites and review construction progress. Mr. Davis returned to Jakarta on November 18 and Messrs. Baird and Irwan returned to Jakarta on November 20, 1981.

B. PROJECT TRIPS

During the period MAIN field staff members made several lengthy trips to Klaten, Magelang, Pekalongan, Sleman and Wangon to assist PLN pole setting activities and to review construction drawings in the field.

C. PROJECT COORDINATION MEETINGS

No coordination meeting was held during the reporting period.

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>
USAID	S - 7870	Nov 2, 81	Rural Electrification Project Invoice AID-90R.
USAID	S - 7872	Nov. 2, 81	Comments on Field Trip Report Central Java Rural Electrification
USAID	S - 7874	Nov 2, 81	R.E. Project Utility and Housing Expenses No. 19.
Hyundai Corp. - Jakarta	S - 7882	Nov. 6, 81	R.E.P. Contract Pj.198/PST/8
Mr. Dowling	S - 7884	Nov. 7, 81	Hotel Room Rates Central Java
Telex to Boston	S - 7886	Nov. 7, 81	Additional subscription to "Electrical World"
Mr. Dowling	S - 7888	Nov. 7, 81	Const. of Hq Complexes Payment/Installment Form.
PLN, Pusat	S - 7890	Nov. 7, 81	Maison International Ltd.
PLN, Pusat	S - 7896	Nov. 9, 81	Extension of Work Permits of Mr. R. N. Key
Mr. Dowling	S - 7898	Nov 10, 81	Transformer sizing & Service Demand.
ITT Export Corp.	S - 7904	Nov 11, 81	
Mr. Soedjono	S - 7914	Nov 14, 81	Shipping Documents
USAID	S - 7916	Nov.16, 81	Monthly Report - October 81.
G.E. Jakarta	S - 7918	Nov 16, 81	Supply Contract
Telex to Boston	S - 7928	Nov 19, 81	Insurance for PLN Materials
P I Ring	S - 7930	Nov 19, 81	Invoice No. 44, P/E November 18, 1981.
P I Ring	S - 7936	Nov 24, 81	Transmittal of Equipment
USAID	S - 7940	Nov 25, 81	Invoice No. 91
USAID	S - 7942	Nov 25, 81	Invoice No. 92
P. I. Ring	S - 7944	Nov 25, 81	Status of Material Delivery
P. I. Ring	S - 7948	Nov 25, 81	Proposed Training
PLN Pusat	S - 7950	Nov 26, 81	Project Construction

<u>Addressee</u>	<u>Letter No.</u>	<u>Date</u>	<u>Subject</u>
USAID	S - 7952	Nov 26, 81	Utility & Housing Expense No. 20
Maison	S - 7954	Nov 26, 81	Contract No. Pj.196/Pst/80
PLN Pusat	S - 7956	Nov 26, 81	Contract No. Pj.196/Pst/80
Telex to Boston	S - 7958	Nov 27, 81	Certificate of Performance
Telex to Boston	S - 7960	Nov 27, 81	IFB for Distribution Materials III
Mr. Naryanto	S - 7962	Nov 27, 81	Const. of Hq. Complexes Payment Invoice, P.T. Bumi Handayani.
P. I. Ring	S - 7966	Nov 26, 81	Material Distribution

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

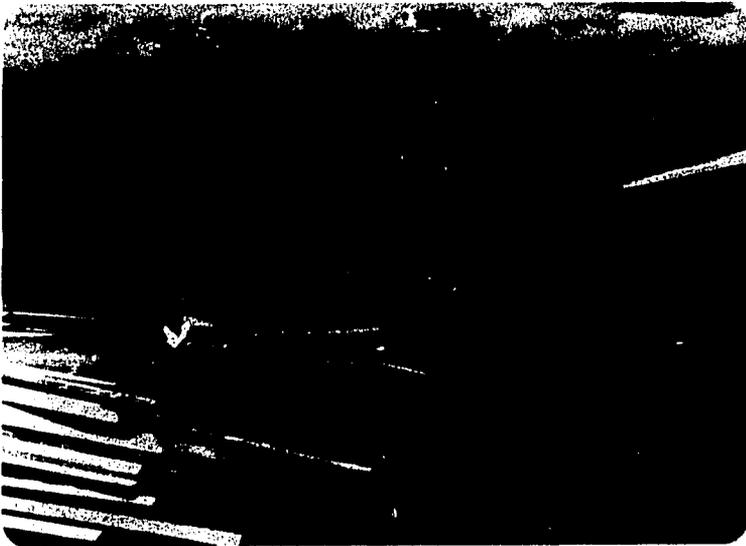
<u>Addressee</u>	<u>Letter No.</u>	<u>Subject</u>
K. Jordan/CHASE	J - 4615	Telex - Contract 265
Irby Const. Co.	J - 4616	Telex - Corrections to our tlx. R-2414 and R-2450
Futura	J - 4617	Telex - Lampung Contract Cat. 9
A.K. Jordan	J - 4618	Telex - Contract 265
Ir. A. Andoyo	J - 4620	R/E Project Amendment No. 2 Contract No. Pj.029/PST/81 Irby Const. Co.
A. J. Curran	J - 4624	Memo - Stamp Tax Payment
A. J. Curran	J - 4627	Telex - Courier Delivery
J. D. Baird	J - 4628	R/E Project Main Field Staff Man Hour Report.
H. E. Johnson	J - 4638	Memo - R.E. Central Java Coordination Meeting.
J.D. Baird	J - 4640	Contract AID/ASIA-C-1357 Visiting Dependent.
Ir. A. Andoyo	J - 4642	Rural Electrification Project Copperweld Industries Int'l Inc. Pj. 030/PST/81.
Ir. A. Andoyo	J - 4646	Rural Electrification Project

<u>Addressee</u>	<u>Letter No.</u>	<u>Subject</u>
Ir. Suryanto	J - 4648	Construction of Headquarter Complex Payment/Installment Form.
Ir. A. Andoyo	J - 4650	Rural Electrification Project PLP Contract No. Pj. 032/PST/81.
J. D. Baird	J - 4652	Rural Electrification Project
A. J. Curran	J - 4657	Telex - Invoice No. 39
Ir. Wiratmoko Setiadji	J - 4663	Rural Electrification Project Invitations for Bids for Distribution Materials - III
A. J. Curran	J - 4664	Memo - Rural Electrification Invoices.
F. Albanese/ Ardry	J - 4676	Telex - Housewiring II Bids.

IX, PROJECT CONSTRUCTION



SRAGEN



WONOGIRI

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. E. 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.

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	
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		MAR. 85	99.44	
			APR. 85	100.0	

CONTRACT No	CONTRACTOR	MATERIALS
Pj. 196/PST/80	Maison International	Communications Equipment Maint. Shop Equipment
Pj. 195/PST/80	New World Research Corp " " " " " " " " " " " " " " " "	Grounding Mat'l - Partial " " " Watt Hour Test Tables Headquarters Test Equip. " " " Ground Rods
Pj. 269/PST/80	ITT Export Corp.	Distribution Line Tools
Pj. 029/PST/81	Irby Construction Co	Reclosers & Service DE
Pj. 198/PST/80	Hyundai Corp.	Ground Wire Fittings, Staples
Pj. 216/PST/80	Merican Curtis	Trucks, Spare Parts
Pj. 032/PST/80	Produtas Para Linhas	Conductor Specialties
Pj. 148/PST/81	Hyosung	Transformers
Pj. 030/PST/81	Copperweld	Guy Wire
Pj. 215/PST/80	Ohm	Distribution Hand Tools
Pj. 223/PST/80	Ohm	Compression Tools

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SUMMARY OF SHIPPING MATERIALS & EQUIPMENT

INVOICE TOTAL	BILL OF LADING No	LOADING DATE	DATE OF ARRIVAL		
			PORT	WAREHOUSE	
\$ 224,857.57	007	Jan. 23, 1981	March 1981	April 1, 1981	Retain
97,193.84	007	Jan. 23, 1981	March 1981	April 1, 1981	Complete
150,218.80		April 9, 1981	Aug. 14, 1981	Sept 16, 1981	Part
189,767.60	1	June 6, 1981		Sept 16, 1981	Part
142,500.00		June 5, 1981	Aug. 15, 1981	Sept 23, 1981	
50,392.00		June 8, 1981	Aug. 18, 1981	Sept 16, 1981	Part
4,980.00	1	April 9, 1981			
170,000.00		Sept. 9, 1981			
98,171.76	1	July 10, 1981	Sept 20, 1981	Sept 30, 1981	Complete
30,356.61	23	Aug. 22, 1981			Part
327,804.00	PSM-1	July 27, 1981	Aug. 13, 1981	Sept 24, 1981	Complete
569,473.00		Sept. 10, 1981			Complete
144,831.00	1	Aug. 25, 1981			
		Nov. 15, 1981			Part
390,112.70	1	Oct. 19, 1981			Part
169,185.17	4	Sept. 9, 1981			Complete
79,493.63	2	Aug. 24, 1981			Complete

TABLE A-4

AS OF: November 30, 195

SHEET 1 OF 1

REMARKS

Retained by customs due to lack of import permit. Complete Shipment
Complete Shipment

Partial Shipment - Insurance Claim

Partial Shipment - Insurance Claim

Partial Shipment

Complete Shipment

Partial Shipment

Complete Shipment

Complete shipment

Partial

Partial

Complete

Complete

CONTRACT No	CONTRACTOR	DATE OF CONTRACT	EFFECTIVE DATE OF CONTRACT
Pj. 296/PST/81	P.T. Mataram Indah	12-9-81	
Pj. 297/PST/81	P.T. Elprima Agung Teknik	12-9-81	
	New World Research Corp.	5-10-81	
	Hijason Industrial (Taiwan) Ltd.	13-10-81	

SUMMARY OF CONTRACT STATUS

CONTRACT FOR MATERIAL & EQUIPMENT

FOR SUPPLY OF	CORRESPONDENT BANK	No	DATE
Housewiring Rp. 84.217.500,- Devices-2			
Housewiring Rp. 85.072.500,- Devices-1			
Protective Rp. 155.182.500,- Devices			
Lamp: Rp. 65.407.500,-			
Misc. Materials Rp. 338.936,00			
Misc. Materials Rp. 490.389,15			

TABLE A-3

AS OF : November 30, 1981

SHEET 2 OF 2

DATE	EXPIRE . DATE	BANK INDONESIA No	LETTER OF CREDIT DATE	CORRESPONDENT No	BANK DATE

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CONTRACT No	CONTRACTOR	DATE OF CONTRACT	EFFECTIVE DATE OF CONTRACT	
Pj. 195/PST/80	New World Research Corp.	30-7-80		L V G
Pj. 196/PST/80	Maison International Ltd.	18-8-80		C M
Pj. 198/PST/80	Hyundai Corp.	5-8-80		G
Pj. 215/PST/80	Ohm International, Inc.	8-9-80		D
Pj. 216/PST/80	American Curtis, Inc.	8-9-80		M
Pj. 223/PST/80	Ohm International, Inc.	23-9-80		C
Pj. 265/PST/80	Cable Handling & Stringing Equipment Inc.	27-10-80		S
Pj. 269/PST/80	ITT Export Corp.	10-11-80		D
Pj. 029/PST/81	Irby Construction Co.	20-2-81	15-7-81	S P
Pj. 030/PST/81	Copperweld Industries	23-2-81	10-7-81	G
Pj. 031/PST/81	McGraw Edison Co.	23-2-81	17-6-81	P
Pj. 032/PST/81	Produtos Para Linhas Preformadas LTDA	23-2-81	15-6-81	C
Pj. 148/PST/81	Hyosung Corp.	4-5-81		D
Pj. 156/PST/81	Walsin Lihwa Electric Wire & Cable Corp.	27-5-81		T
Pj. 157/PST/81	P.T. Putera Tolhas	9-5-81		M M
Pj. 170/PST/81	Walsin Lihwa Electric Wire & Cable Corp.	27-5-81		S

SUMMARY OF CONTRACT STATUS

CONTRACT FOR MATERIAL & EQUIPMENT

FOR SUPPLY OF		LETTER OF COMMITMENT		
		CORRESPONDENT BANK	No	DATE
Lab. & Test Equipment	\$ 197,822.00	CITI BANK N.A.	497-T-05208	2-1-81
Vehicular Equipment	113,900.00			
Ground Rods	510,000.00			
Communication Equipment	225,073.71	CITI BANK N.A.	497-T-05207	25-11-80
Maint. Shop Equipment	97,193.84			
Grounding Material	327,804.00	CITI BANK N.A.	497-T-05209	21-1-81
Distr. Hand Tools	169,185.17	WELLS FARGO BANK INTERNATIONAL		
Maintenance Trucks	569,473.00	WELLS FARGO BANK INTERNATIONAL	497-T-05210	12-2-81
Compression Tools	69,149.78	WELLS FARGO BANK INTERNATIONAL		
Stringing Equipment	314,714.96	WELLS FARGO BANK INTERNATIONAL		
Distr. Line Tools	198,171.76	WELLS FARGO BANK INTERNATIONAL		
Service Materials	268,107.50	CITI BANK N.A.	497-T-05214	19-6-81
Protective devices	187,408.88			
Guy Strand	390,177.99	CITI BANK N.A.	497-T-05214	19-6-81
Protective devices	87,619.20	AMERICAN EXPRESS BANK	497-T-05215	19-6-81
Conductor Specialties	144,831.00	AMERICAN EXPRESS BANK	497-T-05215	19-6-81
Distribution Transformers	1,640,840.00	CHASE MANNATTAN		
Tie Wire	24,261.50			
Miscellaneous Materials - 1	24,164.00			
Service Conductor-1	878,750.00			

AS OF : November 30, 1981.

SHEET 1 OF 2

MENT			LETTER OF CREDIT			
	DATE	EXPIRE. DATE	BANK INDONESIA No	DATE	CORRESPONDENT No	BANK DATE
	2-1-81	1-11-82	0103/17157/PL	18-3-81		
	25-11-80	1-11-82	0103/16410/PL	18-12-80		
	21-1-81	1-11-82	0103/16903/PL	18-2-81		
			0103/16909/PL	29-4-81		
	12-2-81	31-1-83				
			0103/17610/PL	29-4-81		
			0103/17611/PL	29-4-81		
			0103/17612/PL	29-4-81		
	19-6-81	15-9-83	0103/18075/PL	8-6-81	10783079	
	19-6-81	15-9-83	0103/18076/PL	8-6-81	10783080	10-7-81
	19-6-81	15-9-83	0103/18077/PL	8-6-81		
	19-6-81	15-9-83	0103/18078/PL	8-6-81	E 057905	15-6-81
			0103/18906/PL	10-13-81		