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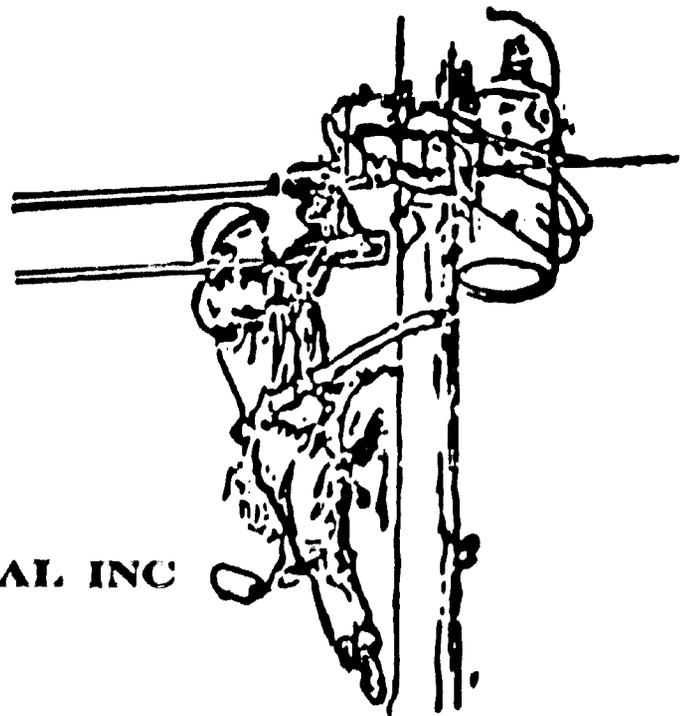
DIRECTORATE GENERAL OF COOPERATIVES

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

**MONTHLY REPORT
FOR MARCH 1982**

MAIN

CIAS.T. MAIN INTERNATIONAL INC



MAIN
Engineers

CHAS. T. MAIN INTERNATIONAL, INC.

BANDUNG - TROMOLPOS 69, TEL. : 56869, JLN. PROGO 32
 JAKARTA - P.O. BOX 46 KBYT. KEBAYORAN TIMUR, TEL. 774041-2-776925 JL. WIJAYA 1/61
 SEMARANG - P.O. BOX 26, TEL. : 311702, JLN. SLAMET 5

Date : April 15, 1982

Letter No. : R - 2862

USAID
 c/o American Embassy,
 Jalan Merdeka Selatan No. 5,
 Jakarta, Indonesia

Attn. : Mr. J.D. Baird
 Rural Electrification I
 Project Officer

Subject : Rural Electrification
 Contract No. AID/ASIA-C-1357
MONTHLY REPORT for MARCH 1982

Gentlemen:

Attached hereto are twelve (12) copies of our report summarizing MAIN's activity for the month ending 31 March 1982.

Very truly yours,

CHAS. T. MAIN INTERNATIONAL, INC.,



[Signature]
 Dowling
 Projects Director

- cc. : Mr. Soedjanadi - Director General for Cooperatives, w/3 copies.
 Mr. Muslimin Nasution - Secretary to the Deputy Minister for Cooperatives, w/2 copies.
 Mr. Sjouffjan Awal - Chief PDO/RE, w/6 copies.
 Mr. Achmad Markam - Chief Foreign Technical Aid Division/ Secretariat to the Directorate General for Coops., w/1 copy.
 Mr. Peter McNeill - NRECA, w/1 copy.
 Mr. A.J. Curran - MAIN Boston, w/2 copies.

-/jd

R E P O R T

NO. 29

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

MONTHLY REPORT

MARCH 1982

SUBMITTED BY

CHAS. T. MAIN INTERNATIONAL, INC.

RURAL ELECTRIFICATION PROJECT

MONTHLY REPORT

MARCH 1982

DIRECTORATE GENERAL OF COOPERATIVES

TABLE OF CONTENTS

	<u>Page</u>
I. DESCRIPTION OF PROJECT	1
II. ENGINEER'S SCOPE OF WORK	4
III. FINANCIAL	6
IV. ENGINEERING	7
V. PROCUREMENT	15
VI. CONSTRUCTION-REIL PROJECTS	44
APPENDICES	
I. PROJECT PERSONNEL	A1 - 1
II. SUMMARY OF STATUS OF PROJECT	A2 - 1
III. PROJECT PHOTOGRAPHS	A3 - 1

I. DESCRIPTION OF PROJECT

The objective of this Project is to assist the Government of Indonesia (GOI) in its plan to provide area-wide electric power distribution facilities in ten specific areas.

Three service areas are located on the islands of Sumatra, Lombok and Sulawesi and will be constructed and operated as investor owned Cooperatives under the direction of the Directorate General of Cooperatives (DGC). Information presented in this report applies to the DGC service areas only.

The Cooperative Projects will consist of approximately 1,647 kilometers of overhead primary and secondary distribution lines and is planned to encompass at least 190 towns and villages. The completed Projects will ensure the availability of reliable and inexpensive electric service to an estimated 110,000 homes. Approximately 51,500 customers will be connected during the first three years of operation and the remainder connected during the following twelve years.

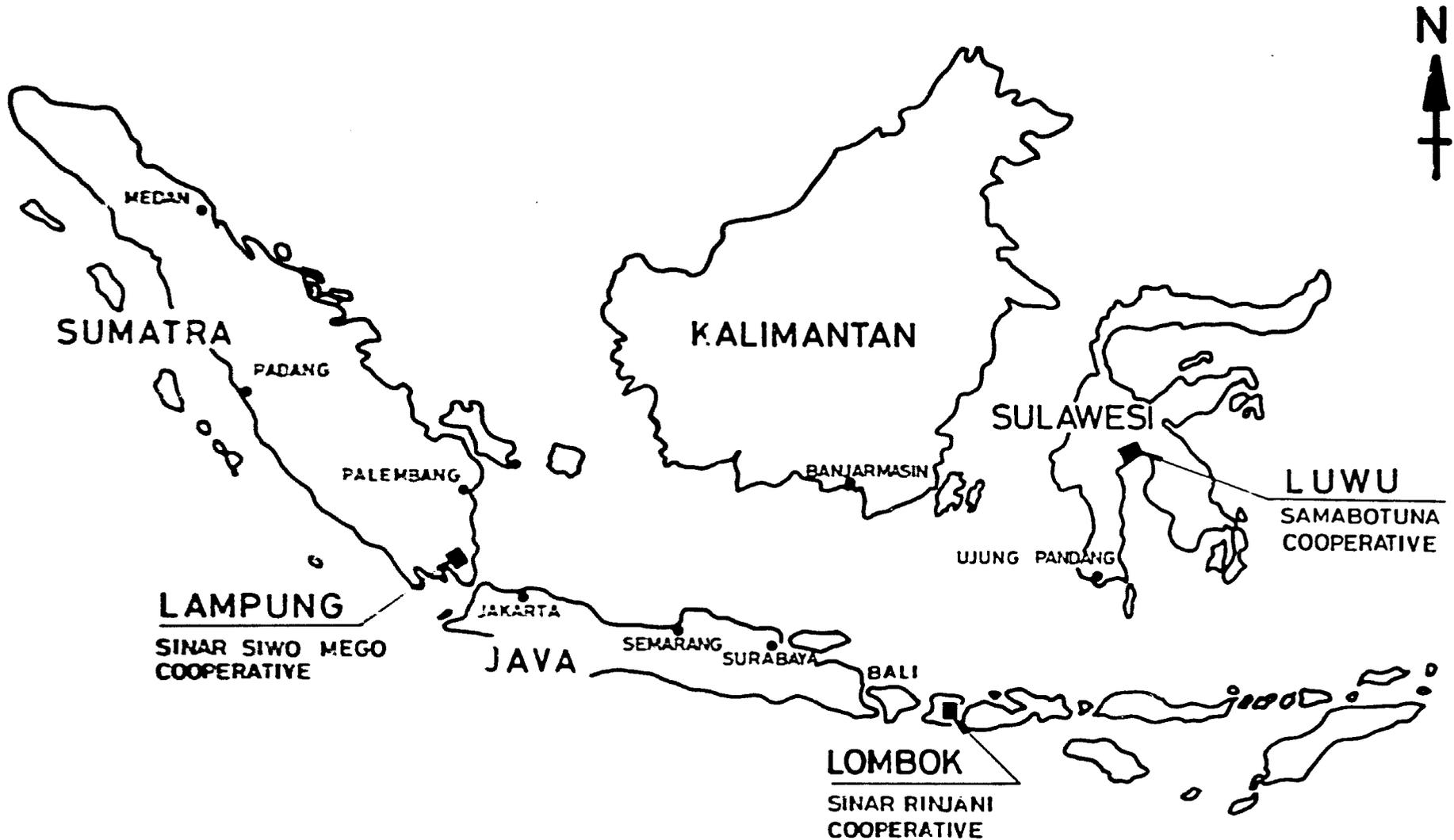
Each of the Project service areas shall include a Headquarters Complex consisting of a Cooperative administrative office building, a warehouse building containing an operations office and vehicle maintenance facilities, as well as covered and open material and equipment storage areas.

The power requirements of the completed distribution system will be supplied by diesel powered electric generating plants which shall be owned and operated by each of the Cooperatives.

Locations of the three Cooperative service areas are shown on Page 3 of this report. Project service areas, estimated pole line kilometers, numbers of villages to be served and the approximate number of consumer connections after three years of commercial operation are as follows :

<u>SERVICE AREA</u>	<u>COOPERATIVE</u>	<u>POLE LINE KM</u>	<u>VILLAGES TO BE SERVED</u>	<u>APPROXIMATE NO. OF CONNECTIONS</u>
Central Lampung, Sumatra	Sinar Siwo Mego	974	108	23,000
East Lombok	Sinar Rinjani	196	32	14,000
Luwu, South Sulawesi	Samabotuna	477	50	14,500
		<u>1,647</u>	<u>190</u>	<u>51,500</u>
		=====	===	=====

LOCATIONS OF PROJECT SITES



II. ENGINEER'S SCOPE OF WORK

On 18 September 1978, Contract AID/ASIA-C-1357 was executed between the United States Agency for International Development (USAID) and Chas. T. Main International, Incorporated (MAIN). MAIN's scope of work, as described in this Contract and as amended by Amendment No. 1 to said Contract, is as follows :

A. ENGINEERING/DESIGN

MAIN will be responsible for all phases of the Cooperative distribution systems to include field surveys, electrical design studies and the preparation of material, equipment and construction specifications. The design and construction management of Headquarters Complexes at each of the three Cooperative sites will also be MAIN's responsibility.

B. PROCUREMENT

Procurement activities to be performed by MAIN shall include the preparation and issuance of tender documents, evaluation of proposals received, recommendations for awards of contracts, preparation and administration of supply contracts and assistance to PDO/RE and the Cooperatives in the receiving, inspection and storage of project material and equipment.

C. CONSTRUCTION

MAIN shall be responsible for administrative procedures relevant to the construction of the Cooperative distribution systems and Headquarters Complexes. Responsibilities shall include the pre-qualification of local construction contractors, the preparation and issuance of construction tender documents, bid evaluations for awards of contracts and the preparation and administration of construction contracts.

Construction records to be maintained by MAIN shall include distribution systems construction inventories, as-built construction drawings, construction schedules and documentation

for payments to the construction contractors. MAIN shall also be responsible for construction supervision and inspection of all aspects of the contractor's construction activities.

D. TRAINING

The PDO/RE staff will increase their administrative and technical skills through active participation in MAIN's Project activities.

This transfer of technology through On-The-Job Training is concentrated primarily with the six Electrical Engineers and four Design Draftsmen who are designated to be assigned to MAIN's production staff by Amendment No. 1.

III. FINANCIAL

A. Following is a summary of USAID and DGC/PDO costs invoiced through 25 February 1982 :

	<u>BUDGET</u>	<u>INVOICE TO DATE</u>	<u>PAID TO DATE</u>
USAID	\$ 5,355,261	\$ 3,862,966	\$ 3,761,066
DGC		Rp. 49.731.657	49.731.657

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

	<u>Budget</u>	<u>Cost To Date</u>		
		<u>PIN</u>	<u>DGC</u>	<u>TOTAL</u>
Salaries & Wages	\$ 1,484,257	\$ 578,621	\$ 643,223	\$1,221,844
Fringe Benefits	278,636	85,992	91,942	177,934
Allowances	382,355	130,746	156,622	287,368
Travel & Transportation	959,825	285,931	254,135	540,066
Other Direct Costs	450,037	44,220	185,232	229,452
Overhead	1,390,151	542,895	602,856	1,145,751
Fee	410,000	124,575	135,976	260,551
T O T A L	\$ 5,355,261	\$ 1,792,980	\$ 2,069,986	\$3,862,966
	=====	=====	=====	=====

IV. ENGINEERING

A. SYSTEM DESIGN

The office design of the electrical distribution systems of the three (3) Cooperative service areas is complete. Preparation of maps and staking sheets for the three (3) service areas continued during this report period.

The following pages indicate the previous, current and total progress of mapping, survey and staking sheet preparation for each service area; page 9 - Lampung, page 10 - Lombok and page 11 - Luwu.

The staking sheets required for the Lombok Service Area were completed during the previous period. The related checking and approval procedure for those staking sheets will commence and continue as the work load of the Project Team Leader and Electrical Engineer permit. Approximately fifty percent of the Lampung and ninety percent of the Luwu service areas staking sheets have been completed.

Preparation of the DGC Specifications and Construction Standards progressed satisfactorily during this report period. It is anticipated that approximately eighty one (81) drawings plus the necessary Bills of Material will be required to complete the set. The status of drawing preparation is as follows :

Total drawing authorized to date	80
Completed (signed off)	75
Remaining (approximately)	5

A preview copy of the DGC Construction Standards Manual was sent to PDO/RE and USAID in February. A MAIN, USAID and PDO/RE review of the preview DGC Construction Standard Manual indicated that minor corrections and editing were required on 41 of the pages. The indicated corrections were made during this report period.

The preparation of key and detail system maps by MAIN's Drafting/Reproduction Section will be accelerated after the DGC Construction Standards are completed. To date work has started on the key map portion of the mapping system with both Lampung and Luwu map work in progress. Cross checking all available data to establish control points is well underway.

A1. STATUS REPORT OF MAPS, SURVEY AND STAKING SHEETS INDICATING SELECTED KEY QUANTITIES

FOR THE SERVICE AREA : Lampung

<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>PREVIOUSLY COMPLETED</u>	<u>PROGRESS THIS REPORT PERIOD</u>	<u>COMPLETED TO DATE</u>
1. Key Maps _____	1	.1	.05	.15
2. Detail Maps _____	35	0	0	0
3. Centerline Staking (Kilometers) _____	974	974	0	974
4. Pole Staking (Kilometers) _____	974	480	120	600
5. Line Restaking, Kilometers (Resurvey) _____	100	0	0	0
6. Staking Sheets _____	850	299	153	452
A) Checked _____	850	65	33	98
B) P o l e s _____	12,700	3614	1836	5,450
C) Pole Line Kilometers _____	974	281	142	423
(a) Primary _____	563	156	79	235
(b) Secondary _____	411	125	63	188
(c) Underbuild _____	424	116	59	175
D) Approved _____	850	65	33	98

REIL PROJECT INCLUDED

A2. STATUS REPORT OF MAPS, SURVEY AND STAKING SHEETS INDICATING SELECTED KEY QUANTITIES

FOR THE SERVICE AREA : Lombok

<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>PREVIOUSLY COMPLETED</u>	<u>PROGRESS THIS REPORT PERIOD</u>	<u>COMPLETED TO DATE</u>
1. Key Maps _____	1	.1	0	.1
2. Detail Maps _____	7	0	0	0
3. Centerline Staking (Kilometers) _____	196	196	0	196
4. Pole Staking (Kilometers) _____	196	155	0	155
5. Line Restaking, Kilometers (Resurvey) _____	25	0	0	0
6. Staking Sheets _____	250	190	0	190
A) Checked _____	250	0	100	100
B) P o l e s _____	2,600	2,097	0	2,097
C) Pole Line Kilometers _____	196	155	0	155
(a) Primary _____	148	113.544	0	113.544
(b) Secondary _____	48	41.456	0	41.456
(c) Underbuild _____	54	57.174	0	57.174
D) Approved _____	250	0	0	0

REIL PROJECT INCLUDED IN POLE LINE
KILOMETERS.

A3. STATUS REPORT OF MAPS, SURVEY AND STAKING SHEETS INDICATING SELECTED KEY QUANTITIES

FOR THE SERVICE ARE* : L U W U

<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>PREVIOUSLY COMPLETED</u>	<u>PROGRESS THIS REPORT PERIOD</u>	<u>COMPLETED TO DATE</u>
1. Key Maps _____	1	.12	.03	.15
2. Detail Maps _____	30	0	0	0
3. Centerline Staking (Kilometers) _____	477	477	0	477
4. Pole Staking (Kilometers) _____	477	477	0	477
5. Line Restaking, Kilometers (Resurvey) _____	50	0	0	0
6. Staking Sheets _____	415	211	150	361
A) Checked _____	415	0	0	0
B) P o l e s _____	7,500	3098	1862	4960
C) Pole Line Kilometers _____	477	222.377	131.815	354.192
(a) Primary _____	263	144.834	70.750	215.584
(b) Secondary _____	214	77.543	61.065	138.608
(c) Underbuild _____	214	111.637	53.372	165.009
D) Approved _____	415	0	0	0

B. DESIGN OF HEADQUARTERS COMPLEX

The IFB and Construction Plans for each of the three Headquarters Complexes went on sale 5 March. Fifteen sets were sold to Qualified Bidders by the date set for the prebid conferences; seven bidders for Lampung, five bidders for Lombok and three for Luwu. Representatives from all the construction companys who purchased IFB packages attended the prebid conferences. Three prebid conferences were held, one for each of the service areas, on three consecutive days starting from March 18, 1982.

Addenda one and two to the Headquarters Complexes construction IFBs were prepared and issued during this report period to each firm who purchased an IFB.

The following distribution of Headquarters Complex Construction Plans were made by MAIN by the end of this report period.

<u>Name of Office</u>	<u>Construction Plans for</u>		
	<u>LAMPUNG</u>	<u>LOMBOK</u>	<u>LUWU</u>
Offices of PDO/RE	1	1	1
Offices of USAID	1	1	1
Offices of NRECA	1	1	1
Sinar Siwo Mego Coop.	1		
Sinar Rinjani Coop.		1	
Samabotuna Coop.			1

The tendering, evaluation and contract award schedule for the construction of the Headquarters Complexes being followed is indicated below :

<u>ACTIVITY</u>	<u>PERIOD</u>	<u>NO. OF DAYS</u>
1. Notice to Qualified Bidders	Feb. 25 - March 4, 1982	7
2. Obtain Bid Documents	March 5 - March 12, 1982	7
3. Explanation of Bids/ Prebid Conference	March 13 - March 20, 1982	7
	Lampung - March 18, 1982)	
	L u w u - March 19, 1982)**	
	Lombok - March 20, 1982)	
4. Preparation/Submission of Bids	March 6 - April 12, 1982	31
5. Bids Opening Period	April 13 - April 19, 1982	6
	Lampung - April 13, 1982)	
	L u w u - April 16, 1982)**	
	Lombok - April 19, 1982)	
6. Evaluation of Bids	April 13 - M a y 6, 1982	21
7. Announcement of Winning Bidders	M a y 7, 1982	1
8. Receiving of Complaints/ Denial Period	May 8 - May 14, 1982	6
9. Formal Answer to Complaints Period	May 15 - May 20, 1982	6
10. Formal Notices to Winning Bidders	May 22 - June 2, 1982	10

NOTES :

*) To be held in Jakarta

***) To be held at each Provincial Capital.

The architectural and engineering services provided by P.T. Arkonin are deemed complete. P.T. Arkonin submitted their final invoice for payment to MAIN at the end of this report and this invoice will be paid in full during the first week of April.

C. FIELD TRIPS

MAIN's Civil Engineer travelled to each of the service areas during this report period to explain the bidding procedures to the Cooperatives General Managers and to point out the construction bench marks at each of the three locations. It is anticipated that the Civil Engineer will attend each of the bid openings at the respective Provincial Capitals in April.

MAIN's Distribution Engineering Project Office Staff did not make any field trips during this report period.

V. PROCUREMENT

A. MAIN's Project procurement activity during this report period was centered around the issue for sale of the Lampung, Lombok and Luwu IFBs for Line and Housewiring Materials.

Corrections to and editing of the Wood Pole IFB was also in process during this report period by the procurement section of MAIN's Project Staff, as well as assisting with the final preparation for sale of the IFBs for Construction of the Headquarters Complexes. The IFBs went on sale March 19, 1982 and are to be opened on May 18, 1982. Appropriate addendums were also issued for the Material and Equipment IFBs. The updated schedule of events relevant to the new IFBs is as follows :

<u>EVENT</u>	<u>DATE</u>	<u>MONTHS</u>
IFB Preparation started	1 December 1981	
IFB Preparation complete	15 January 1982	1.5
IFB Approved by PDO/RL and USAID	15 February 1982	1
IFB Advertisement	19 March 1982	1
IFB Opening	18 May 1982	2
IFB Evaluation complete	15 June 1982	1
SEKNEG Evaluation approval	15 July 1982	1
Contract formalities complete	1 September 1982	1.5
L/Com and L/C issued and opened	15 October 1982	1.5
Material Delivery FOB vessel	15 January 1983	3
Material Delivery Port of Entry	15 March 1983	2
Material Delivery at site	1 April 1983	0.5
		<hr/> 16 Months

These three IFBs include bid requests for the following Categories of Material and Equipment for the areas noted.

	<u>DESCRIPTION</u>	<u>LAMPUNG</u>	<u>LOMBOK</u>	<u>LUWU</u>
1.	Line Hardware (Additional)	x	x	x
2.	Steel Strand		x	
3.	Conductor, Bare	x	x	x
5.	Conductor, Bare (Special)	x	x	
*6.	Conductor, Insulated (Special)		x	
8.	Connectors (Additional)	x	x	x
9.	Insulators		x	
14.	Wood Products (Plus Additinal Items)	x	x	x
2H.	Cables	x	x	x
3H.	Wiring Devices - I	x	x	x
4H.	Wiring Devices - II	x	x	x
8H.	Miscellaneous Material - II	x	x	x

* Included in Category 3 for Lombok.

A page following this narration indicates the distribution and status of the Project's Dollar Funds, which is followed by three (3) sets of Procurement Status Report, one for each service area.

A short review covering Pole and Communication Equipment procurement, field and inspection trips undertaken by the Material Coordinator and Project Lead Engineer are at the end of this section of the Monthly Project Report.

DISTRIBUTION AND STATUS OF PROJECT DOLLAR FUNDS FOR PROCUREMENT OF MATERIAL,
EQUIPMENT AND HEADQUARTERS COMPLEX CONSTRUCTION

DOLLAR EXPENDITURES AS CONTRACTED AND ESTIMATED, FOR :	\$ FUNDS UNDER CONTRACT FOR THE LAMPUNG PROJECT	\$ FUNDS UNDER CONTRACT FOR THE LOMBOK PROJECT	\$ FUNDS UNDER CONTRACT FOR THE LUWU PROJECT	TOTAL \$ FUNDS UNDER CONTRACT TO DATE
LINE MATERIAL AND EQUIPMENT	1,992,759.60	554,812.77	907,139.42	3,454,711.79
HOUSEWIRING AND METERING MATERIAL AND EQUIPMENT	744,471.32	512,312.41	524,667.41	1,781,451.14
TOOLS, EQUIPMENT AND VEHICLES	58,866.22	45,644.20	45,644.20	150,154.62
HEADQUARTERS COMPLEX	0	0	0	0
REIL PROJECT	267,425.00	0	211,180.00	478,605.00
ESTIMATED AMOUNT OF DOLLAR FUNDS YET TO BE PUT UNDER CONTRACT	LAMPUNG	LOMBOK	LUWU	TOTAL PROJECT
LINE MATERIAL AND EQUIPMENT	1,263,000.00	407,000.00	827,000.00	2,497,000.00
HOUSEWIRING AND METERING MATERIAL AND EQUIPMENT	300,000.00	300,000.00	300,000.00	900,000.00
TOOLS, EQUIPMENT AND VEHICLES	140,000.00	55,000.00	55,000.00	250,000.00
HEADQUARTERS COMPLEX w/FURNITURE	525,000.00	535,000.00	540,000.00	1,600,000.00
REIL PROJECT	0	0	- 174,643.17	- 174,643.17
DOLLAR VALUE OF MATERIAL UNDER CONTRACT	3,063,522.14	1,112,769.38	1,688,631.03	5,864,922.55
ESTIMATED DOLLAR VALUE OF MATERIAL YET TO BE CONTRACTED	2,228,000.00	1,297,000.00	1,547,356.83	5,072,356.83
ESTIMATED TOTAL FUNDS REQUIRED FOR COMPLETION	5,291,522.14	2,409,769.38	3,235,987.85	10,937,279.38
ORIGINAL DOLLAR FUNDS COMMITTED FOR PROJECT	316,000.00 4,000,000.00	315,000.00 3,400,000.00	315,000.00 2,600,000.00	946,000.00 10,000,000.00
DIFFERENCE BETWEEN COMMITTED AND REQUIRED FUNDS	- 975,522.14	+1,305,230.62	- 320,987.86	+ 8,720.62

PROCUREMENT STATUS REPORT
FOR LAMPUNG

LAMPUNG

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	LINE HARDWARE	HAYDEN 10 / KLP / LA / 81 \$ 492,152.00	19 / 11 / 81	25 / 11 / 81	29 / 12 / 81	28 / 12 / 81	18 / 1 / 82	6 / 2 / 82	15 / 2 / 82	11 / 3 / 82	12 / 3 / 82											
2	STEEL STRAND	NEW WORLD 02 / KLP / LA / 81 \$ 93,287.50	24 / 10 / 80	16 / 2 / 81	24 / 11 / 80	11 / 3 / 81	19 / 3 / 81	28 / 3 / 81	2 / 4 / 81	16 / 4 / 81	24 / 4 / 81	25 / 5 / 81	10 / 7 / 81	10 / 7 / 81	10 / 7 / 81	13 / 10 / 81	7 / 12 / 81					
3	B*RE CONDUCTORS	NO CONTRACT																				
4	INSULATED CONDUCTORS	NEW WORLD 02 / KLP / LA / 81 \$ 321,049.25	24 / 10 / 80	17 / 2 / 81	24 / 11 / 80	11 / 3 / 81	19 / 3 / 81	28 / 3 / 81	2 / 4 / 81	16 / 4 / 81	24 / 4 / 81	25 / 5 / 81	10 / 7 / 81	10 / 7 / 81	10 / 7 / 81	13 / 10 / 81	23 / 10 / 81	5 / 2 / 82				
5	SPECIAL BARE CONDUCTORS	GRAYBAR 04 / KLP / LA / 81 \$ 12,874.60	24 / 10 / 80	11 / 3 / 81	9 / 5 / 81	2 / 4 / 81	14 / 4 / 81	24 / 4 / 81	27 / 4 / 81	8 / 5 / 81	12 / 5 / 81	25 / 5 / 81	14 / 7 / 81	14 / 7 / 81	14 / 7 / 81	N/A						
6	SPECIAL INSULATED CONDUCTORS	KABELINDO 07 / KLP / LA / 81 \$ 2,222.00	24 / 10 / 80	11 / 3 / 81	7 / 1 / 81	11 / 3 / 81	19 / 3 / 81	28 / 3 / 81	N/A	N/A	24 / 4 / 81	N/A	6 / 5 / 81	N/A	6 / 5 / 81	N/A	14 / 8 / 81	N/A	N/A	14 / 9 / 81	3 / 2 / 82	
7	CONDUCTOR ACCESSORIES	AMEND #2 PLP 06 / KLP / LW / 81 \$ 37,825.25	4 / 11 / 81	17 / 11 / 81	17 / 11 / 81	31 / 12 / 81	13 / 1 / 82	27 / 1 / 82	N/A	N/A	24 / 2 / 82											
8	CONNECTORS	IRBY 09 / KLP / LA / 81 \$ 56,850.45	31 / 10 / 81	10 / 12 / 81	10 / 12 / 81	23 / 12 / 81	22 / 3 / 82									22 / 10 / 81						

NOTES :

LAMPUNG

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED
9	INSULATORS	FUTURA 03 / KLP / LA / 81 \$ 156,257.19	18 10/80	11 12/80	25 1/81	11 3/81	19 3/81	28 3/81	2 4/81	16 4/81	24 4/81	25 5/81	10 7/81	10 7/81	10 7/81	7 11/81	21 12/81	30 3/82			
	INSULATORS	FUTURA AMENDMENT 1 -\$ 12,698.28	7 11/81	N/A	N/A	15 2/82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15 2/82	7 11/81	21 12/81	30 3/82			
10	PROTECTIVE DEVICES	NEW WORLD 02 / KLP / LA / 81 \$ 111,792.00	24 10/80	16 2/81	24 11/81	11 3/81	19 3/81	28 3/81	2 4/81	16 4/81	24 4/81	25 5/81	10 7/81	10 7/81	10 7/81	13 10/81		5 2/82			
11	TRANSFORMERS	META EPSI 06 / KLP / LA / 81 \$ 512,211.00	24 10/80	5 12/80	6 5/81	11 3/81	19 3/81	28 3/81	2 4/81	16 4/81	28 7/81	N/A	20 8/81	N/A	11 3/81	15 10/81					
	TRANSFORMERS	META EPSI AMENDMENT 2 +\$ 31,299.45		24 11/81	6 5/81	15 12/81	13 1/82	6 2/82	N/A	N/A	1 3/82										
12	RECLOSERS	MCGRAW.AMEND.1 03 / KLP / LO / 81 \$ 45,311.10	24 11/80	7 12/81	29 12/81	31 12/81	13 1/82	27 1/82	N/A	N/A	24 2/82					2 12/81					
13	STREET LIGHTING	IRBY 09 / KLP / LA / 81 \$ 21,012.95	31 10/81	10 12/81	10 12/81	23 12/81	22 3/82									22 10/81					
14	WOOD PRODUCTS	NEW WORLD 02 / KLP / LA / 81 \$ 89,025.00	24 10/80	16 2/81	24 11/81	11 3/81	19 3/81	28 3/81	2 4/81	16 4/81	24 4/81	25 5/81	10 7/81	10 7/81	10 7/81	13 10/81	14 2/82				

NOTES: ONLY AMENDMENTS WITH PRICE CHANGES ARE RECORDED.

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
15	TEST AND MAINTENANCE EQUIPMENT	IRBY 09/KLP/LA/81 22,288.15	31/10/81	9/11/81	10/12/81	23/12/81	22/3/82									22/10/81						

NOTES :

LAMPUNG

HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	R E C METERS	G.E. 01H / KLP / LA / 81 \$ 590,440.10	6/11/81	19/11/81	31/11/81	11/12/81	14/1/82	27/1/82	30/1/82	13/2/82	12/3/82											
2	CABLES	NO CONTRACT																				
3	WIRING DEVICES-1	NO CONTRACT																				
4	WIRING DEVICES 2	NO CONTRACT																				
5	PROTECTIVE DEVICES	G.E. 01H / KLP / LA / 81 \$ 25,440.00	6/11/81	19/11/81	31/11/81	11/12/81	14/1/82	27/1/82	30/1/82	13/2/82	12/3/82											
6	LAMPS	WESTINGHOUSE 02H / KLP / LA / 81 \$ 15,750.00	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
7	MISC MATERIAL-1	WESTINGHOUSE 02H / KLP / LA / 81 \$ 65,657.70	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
8	MISC MATERIAL-2	NO CONTRACT																				

NOTES :

HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDC. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
9	MISC MATERIAL-3	WESTINGHOUSE 02H / KLP / LA / 81 \$ 21,411.52	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
10	GROUNDING EQUIPMENT	WESTINGHOUSE - 02H / KLP / LA / 81 \$ 25,772.00	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														

NOTES :-

LAMPUNG

TOOLS, EQUIPMENT AND VEHICLES

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	PERSONNEL EQUIPMENT	WESTINGHOUSE 02T/KLP/LA/81 \$ 5,479.76	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
2	HAND TOOLS	WESTINGHOUSE 02T/KLP/LA/81 \$ 3,654.56	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
3	CONSTRUCTION TOOLS & EQUIPMENT	GLORIA 01T/KLP/LA/81 \$ 16,822.54	6/11/81	7/11/81		31/12/81	3/2/82	25/2/82	N/A	N/A	18/1/82	N/A		N/A								
4	COMPRESSION TOOLS	GLORIA 01T/KLP/LA/81 \$ 8,622.38	6/11/81	7/11/81		31/12/81	3/2/82	25/2/82	N/A	N/A	18/1/82	N/A		N/A								
5	SHOP TOOLS	GLORIA 01T/KLP/LA/81 \$ 12,660.50	6/11/81	7/11/81		31/12/81	3/2/82	25/2/82	N/A	N/A	18/1/82	N/A		N/A								
6	TEST EQUIPMENT	GLORIA 01T/KLP/LA/81 \$ 9,045.73	6/11/81	7/11/81		31/12/81	3/2/82	25/2/82	N/A	N/A	18/1/82	N/A		N/A								
7	SAFETY GROUNDING EQUIPMENT	GLORIA 01T/KLP/LA/81 \$ 2,580.75	6/11/81	7/11/81		31/12/81	3/2/82	25/2/82	N/A	N/A	18/1/82	N/A		N/A								
8	VEHICLES	NO CONTRACT																				

NOTES : N/A = NOT APPLICABLE AS DRA NOT L/COMM

-25-

PROCUREMENT STATUS REPORT
FOR LOMBOK

LOMBOK

MATERIAL AND EQUIPMENT INFORMATION

CONTRACT NUMBER IN FORCE	CATEGORY NUMBER	DESCRIPTION OF MATERIAL IN CATEGORY	NAME OF CONTRACTOR	LETTER OF COMMITMENT OR DRA NO. 497-T-052xx	DOLLAR AMOUNT UNDER CONTRACT PER CATEGORY
03/KLP/LO/81	12	RE ClosERS	McGraw-Edison Co.	24	45,588.47
05/KLP/LO/81	4	CONDUCTOR-INSULATED	NEW WORLD RESEARCH	24	144,800.00
07/KLP/LO/81	10	PROTECTIVE DEVICES	McGraw-Edison		55,420.90
08/KLP/LO/81	7	CONDUCTOR ACCESSORIES	IRBY CONSTRUCTION CO		41,350.50
09/KLP/LO/81	8	CONNECTORS	IRBY CONSTRUCTION CO		44,659.29
- " -	13	S.L. EQUIPMENT	- " -		11,185.35
- " -	15	T & M EQUIPMENT	- " -		21,190.06
10/KLP/LO/81	1	LINE HARDWARE	JOSLYN CO.		140,618.20
	2	STEEL STRAND			EST 10,000.00
	5	CONDUCTOR, B (SPECIAL)			EST 12,500.00
	6	CONDUCTOR, I (SPECIAL)			EST 1,000.00
	14	WOOD PRODUCTS			EST 35,000.00
	3	CONDUCTOR-BARE			EST 270,000.00
	9	INSULATORS			EST 50,000.00
	()	MISC. ITEMS			EST 28,000.00
	11	TRANSFORMERS			
TOTAL DOLLARS OBLIGATED ON LINE M & E FOR THE LOMBOK PROJECT					240,388.47
TOTAL DOLLARS CONTRACTED TO DATE FOR LOMBOK PROJECT - LINE M and E					554,812.77
ADDITIONAL DOLLAR AMOUNT REQUIRED FOR LOMBOK PROJECT - LINE M and E					EST 407,000.00
TOTAL DOLLAR AMOUNT REQUIRED FOR LOMBOK PROJECT - LINE M and E					EST 961,812.77

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	LINE HARDWARE	JOSLYN 10 / KLP / LO / 81 \$ 140,618.20	19/11 81	26/11 81	31/12 81	28/12 81	18/1 82	6/2 82	15/2 82		12/3 82					19/11 81						
2	STEEL STRAND	NO CONTRACT																				
3	BARE CONDUCTOR	NO CONTRACT																				
4	INSULATED CONDUCTOR	NEW WORLD 05 / KLP / LQ / 81 \$ 194,800.00	1/7 81	24/4 81	30/7 81	31/7 81	15/8 81	24/8 81	8/9 81	10/9 81	2/10 81	17/11 81	17/11 81	17/11 81			10/3 82					
5	SPECIAL BARE CONDUCTOR	NO CONTRACT																				
6	SPECIAL INSULATED CONDUCTOR	NO CONTRACT																				
7	CONDUCTOR ACCESSORIES	IRBY 08 / KLP / LO / 81 \$ 41,350.50	10/11 81	16/11 81	11/1 82	31/12 81	18/3 82									10/11 81						
8	CONNECTORS	IRBY 09 / KLP / LO / 81 \$ 44,659.29	2/11 81	9/11 81	17/12 81	23/12 81	18/3 82									22/10 81						

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-20-

LOMBOK

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED
9	INSULATORS	NO CONTRACT																			
10	PROTECTIVE DEVICES	MC GRAW-EDISON 07 / KLP / LO / 81 \$ 55,420.90	2 / 11 81	12 / 11 81	31 / 11 81	11 / 12 81	12 / 3 82	24 / 3 82								22 / 10 81					
11	TRANSFORMERS	TRANSFER FROM LAMPUNG																			
12	RECLOSERS	MC GRAW-EDISON 03 / KLP / LO / 81 \$ 45,588.47		17 / 6 81	20 / 3 81	17 / 7 81	20 / 7 81	4 / 8 81	12 / 8 81		3 / 9 81	1 / 10 81	17 / 11 81	17 / 11 81	17 / 11 81	26 / 3 82	10 / 3 82				
	RECLOSERS	MC GRAW EDISON AMENDMENT 2 - \$ 677.41	26 / 3 82	N / A	N / A		N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	17 / 11 81	26 / 3 82	10 / 3 82				
13	STREET LIGHTING	IRBY 09 / KLP / LO / 81 \$ 11,185.35	2 / 11 81	9 / 11 81	17 / 12 81	23 / 12 81	18 / 3 82									2 / 11 81					
14	WOOD PRODUCTS	NO CONTRACT																			
15	TOOLS AND MAINTENANCE EQUIPMENT	IRBY 09 / KLP / LO / 81 \$ 21,190.06	2 / 11 81	9 / 11 81	17 / 12 81	23 / 12 81	18 / 3 82									22 / 10 81					

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-29-

HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED
1	R & C METERS	G.E. 01H / KLP / LO / 81 \$ 358,342.25	6/11/81	19/11/81	31/11/81	11/12/81	14/1/82	27/1/82	30/1/82	13/2/82	12/3/82										
2	CABLES	NO CONTRACT																			
3	WIRING DEVICES - 1	NO CONTRACT																			
4	WIRING DEVICES - 2	NO CONTRACT																			
5	PROTECTIVE DEVICES	G.E. 01H / KLP / LO / 81 \$ 25,440.00	6/11/81	19/11/81	31/11/81	11/12/81	14/1/82	27/1/82	30/1/82	13/2/82	12/3/82										
6	LAMPS	FANATRI 03H / KLP / LO / 81 \$ 12,677.20	6/11/81	11/12/81	23/2/82	23/12/81	N/A	N/A	N/A	N/A	18/1/82						20/2/82				
7	MISC MATERIAL - 1	WESTINGHOUSE 02H / KLP / LO / 81 \$ 67,483.20	6/11/81	25/11/82	7/1/82	31/1/82	11/3/82	29/3/82													
8	MISC MATERIAL - 2	NO CONTRACT																			

NOTES :

-00-

HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
9	MISC MATERIAL - 3	WESTINGHOUSE 02H/KLP/LO/81 \$ 21,934.76	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
10	GROUNDING EQUIPMENT	WESTINGHOUSE 02H/KLP/LO/81 \$ 26,435.00	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														

NOTES :

TOOLS , EQUIPMENT AND VEHICLES

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	PERSONNEL EQUIPMENT	GLORIA 01T / KLP / LO / 81 \$ 3,473.38	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82											
2	HAND TOOLS	WESTINGHOUSE 02T / KLP / LO / 81 \$ 2,631.92	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82														
3	CONSTRUCTION TOOLS & EQUIPMENT	GLORIA 01T / KLP / LO / 81 \$ 10,299.16	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82											
4	COMPRESSION TOOLS	GLORIA 01T / KLP / LO / 81 \$ 6,219.38	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82											
5	SHOP TOOLS	GLORIA 01T / KLP / LO / 81 \$ 12,297.50	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82											
6	TEST EQUIPMENT	GLORIA 01T / KLP / LO / 81 \$ 9,031.61	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82											
7	SAFETY GROUNDING EQUIPMENT	GLORIA 01T / KLP / LO / 81 \$ 1,691.25	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82											
8	VEHICLES	NO CONTRACT																				

NOTES :

**PROCUREMENT STATUS REPORT
FOR LUWU**

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	LINE HARDWARE	HIJASON 01/KLP/LW/81 \$ 278,549.90	15/11/81	2/4/81	20/3/81	15/12/81	13/4/81	24/4/81	4/12/81	20/12/81	22/12/81	14/1/82	27/1/82	1/3/82	25/3/82	12/2/82						
2	STEEL STRAND	COPPERWELD 02/KLP/LW/81 \$ 47,028.00	28/11/80	26/12/80	18/2/81	2/4/81	10/4/81	24/4/81	18/4/81	8/5/81	12/5/81	25/5/81	14/7/81	28/8/81	28/6/81	14/10/81						
	STEEL STRAND	COPPERWELD AMENDMENT 2 - \$ 5,463.12	24/10/81	N/A	N/A	5/11/81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14/7/81	14/10/81						
3	BARE CONDUCTOR	NO CONTRACT																				
4	INSULATED CONDUCTOR	WALSIN LIHWA 04/KLP/LW/81 \$ 115,929.10	19/12/80	30/4/81	2/11/81	7/5/81	20/7/81	4/8/81	12/8/81	3/9/81	3/9/81	22/12/81	19/1/82	19/1/82	19/1/82							
	INSULATED CONDUCTOR	WALSIN LIHWA AMENDMENT 1 - \$ 3,355.10		N/A	2/11/81	8/4/82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19/1/82							
5	SPECIAL BARE CONDUCTOR	COPPERWELD 02/KLP/LW/81 \$ 2,467.36	28/11/80	26/12/80	18/2/81	2/4/81	10/4/81	24/4/81	18/4/81	8/5/81	12/5/81	25/5/81	14/7/81	28/8/81	28/8/81	14/10/81	9/11/81					
	SPECIAL BARE CONDUCTOR	COPPERWELD AMENDMENT 2 + \$ 15,630.64	24/10/81	4/11/81	18/2/81	5/11/81	10/11/81	3/12/81	N/A	N/A	22/12/81					14/10/81	9/11/81					

NOTES :

DISTRIBUTION LINE MATERIAL AND HARDWARE

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
6	SPECIAL INSULATED CONDUCTOR	KABELINDO 05/KLP/LW/81 \$ 886.36		10/3 81	24/3 81	2/4 81	13/4 81	24/4 81	25/4 81	8/5 81	12/5 81											
7	CONDUCTOR ACCESSORIES	PLP 06/KLP/LW/81 \$ 29,420.50	28/11 80	26/12 80	22/5 81	2/4 81	13/4 81	24/4 81	25/4 81	8/3 81	12/5 81	25/5 81	14/7 81	14/7 81	14/7 81		25/8 81					
	CONDUCTOR ACCESSORIES	P.L.P AMENDMENT 1 + \$ 8,786.50		4/11 81		5/11 81	10/11 81															
8	CONNECTORS	IRBY 07/KLP/LW/81 \$ 23,210.15	26/11 80	13/2 81	28/9 81	22/6 81	12/10 81	12/11 81	19/11 81	29/12 81	13/1 82											
	CONNECTORS	IRBY AMENDMENT 1 + \$ 12,257.10		11/11 81	13/11 81	15/12 81	13/1 82															
9	INSULATORS	NEW WORLD 13/KLP/LW/81 \$ 88,988.40	10/11 81	25/11 81	19/11 81	3/12 81	18/1 82		15/2 82		12/3 82											
10	PROTECTIVE DEVICES	NEW WORLD 09/KLP/LW/81 \$ 34,337.00	28/11 80	31/3 81	17/3 81	22/4 81	22/4 81	27/5 81	11/6 81	25/6 81	7/7 81	26/7 81										
	PROTECTIVE DEVICES	NEW WORLD AMENDMENT 1 + \$ 16,740.00		N/A	N/A	15/12 81	N/A															

NOTES: ONLY LATEST AMENDMENTS EFFECTING CONTRACT PRICE ARE RECORDED.

-96-

DISTRIBUTION LINE MATERIAL AND EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO, TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
11	TRANSFORMERS	DAEWOO 10 /KLP/LW/81 \$ 138,433.00	4/12/80	23/2/81	28/2/81	2/4/81	13/4/81	24/4/81	25/4/81	8/5/81	12/5/81	25/5/81										
	TRANSFORMERS	DAEWOO AMENDMENT 1 + \$ 65,071.00		14/12/81		31/12/81	13/1/82	27/1/82														
12	RECLOSERS	Mc GRAW-EDISON 11/KLP/LW/81 \$ 41,556.77	28/11/80	25/12/80	2/3/81	2/4/81	13/4/81	24/4/81	25/4/81	8/5/81	12/5/81	25/5/81	14/7/81	14/7/81	14/7/81	8/9/81	2/10/81					
	RECLOSERS	Mc GRAW-EDISON AMENDMENT 1 - \$ 671.91	8/9/81	N/A	N/A	17/9/81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14/7/81	8/9/81	2/10/81					
13	STREET LIGHTING EQUIPMENT	IRBY 07/KLP/LW/81 \$ 11,185.35	28/11/80	19/2/81	28/9/81	22/6/81	12/10/81	12/11/81	15/12/81	29/12/81	13/1/82											
14	WOOD PRODUCTS	NEW WORLD 09 /KLP/LW/81 \$ 37,340.00	28/11/80	31/3/81	17/3/81	22/4/81	22/4/81	27/5/81	11/6/81	25/6/81	7/7/81		5/8/81	5/8/81	5/8/81		14/2/82					
	WOOD PRODUCTS	NEW WORLD AMENDMENT 1 - \$ 6,300.00		N/A	N/A	15/12/81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			14/2/82					
15	TEST AND MAINTENANCE EQUIPMENT	NEW WORLD 13/KLP/LW/81 \$ 14,060.00	10/11/81	25/11/81	19/11/81	31/12/81	18/1/82				12/3/82											

NOTES:

- 37 -

HOUSEWIRING MATERIAL AND METERING EQUIPMENT

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED	
1	R/C METERS	G.E. 01H/KLP/LW/81 370,707.25	6/11/81	19/11/81	31/11/81	11/12/81	14/1/82	27/1/82	30/1/82	13/2/82	12/3/82											
2	CABLES	NO CONTRACT																				
3	WIRING DEVICES - 1	NO CONTRACT																				
4	WIRING DEVICES - 2	NO CONTRACT																				
5	PROTECTIVE DEVICES	G.E. 01H/KLP/LW/81 25,440.00	6/11/81	19/11/81	31/11/81	11/12/81	14/1/82	27/1/82	30/1/82	13/2/82	12/3/82											
6	LAMPS	FANATRI 03H/KLP/LW/81 12,677.20	6/11/81	11/12/81	23/2/82	23/12/81					18/1/82											
7	MISC MATERIAL - 1	WESTINGHOUSE 02H/KLP/LW/81 67,483.20	6/11/81	25/11/82	7/1/82	31/1/82	11/3/82															
8	MISC MATERIAL - 2	NO CONTRACT																				

NOTES :

- 83 -

TOOLS , EQUIPMENT AND VEHICLES

CATEGORY	CATEGORY DESCRIPTION	AWARDED TO CONTRACT OR AMENDMENT NO. CONTRACT PRICE	NOTICE OF AWARD	STAMP TAX PAID	PERFORMANCE BOND DELIVERED	CONTRACT SIGNED BY CONTRACTOR AND PDO	SUBMITTED TO BAPPENAS	BAPPENAS APPROVAL	TO BANK INDO. TO NAME BANK	BANK NAMED	L/COMM REQUESTED	L/C REQUESTED	L/COMM ISSUED	L/C OPENED	DELIVERY PERIOD FINALIZED	MAIN TELLS CONTRACTOR QUANTITIES TO BE SHIPPED	DELIVERY COMMENCES	REPLACEMENT MATERIAL REQUESTED	REPLACEMENTS RECEIVED	DELIVERY COMPLETED	CONTRACT CLOSED
1	PERSONNEL EQUIPMENT	GLORIA 01T / KLP / LW / 81 \$ 3,473.38	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82										
2	HAND TOOLS	WESTINGHOUSE 02T / KLP / LW / 81 \$ 2,631.92	6/11/81	25/11/81	7/1/82	31/1/82	11/3/82	29/3/82													
3	CONSTRUCTION TOOLS & EQUIPMENT	GLORIA 01T / KLP / LW / 81 \$ 10,299.16	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82										
4	COMPRESSION TOOLS	GLORIA 01T / KLP / LW / 81 \$ 6,219.38	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82										
5	SHOP TOOLS	GLORIA 01T / KLP / LW / 81 \$ 12,297.50	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82										
6	TEST EQUIPMENT	GLORIA 01T / KLP / LW / 81 \$ 9,031.61	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82										
7	SAFETY GROUNDING EQUIPMENT	GLORIA 01T / KLP / LW / 81 \$ 1,691.25	6/11/81	7/12/81	14/12/81	31/12/81	3/2/82	13/2/82	N/A	N/A	18/1/82										
8	VEHICLES	NO CONTRACT																			

NOTES :

B. POLES

The IFB for supply of Treated Wood Poles is under revision by MAIN's Project Staff. PDO/RE has decided to issue an IFB for the supply of poles for the Luwu and Lombok areas. These IFBs will be ready for PDO/RE and USAID review in the month of April. The Lampung Area Cooperative will set up a treatment plant to provide the treated wood poles required by them to implement the electrical system construction in that area.

A field trip was undertaken during this report period by MAIN's Project Lead Engineer and NRECA's Team Leader to visit the timber concession area leased by P.T. PADECO, Ltd., upriver from Palembang on Sumatra. The trip was to ascertain the capability of P.T. PADECO, Ltd., to determine if the wood species "Ulin" could be used on the Project in its untreated state and also to determine if square pole could be utilized as suggested by P.T. PADECO, Ltd. personnel.

It was found that P.T. PADECO, Ltd. have the required logging equipment and personnel necessary to supply timber for the rural electrification program. They were just commencing the installation of treatment facilities by which they will be able to properly do wood preservation of logs up to 14 meters in length and they were preparing the foundations for a sawmill complex in which they will be able to saw logs up to 14 meters long.

MAIN recommends that the species "Ulin" not be used on rural electrification program phase I

since the pole line hardware procured for phase I is not adaptable to this specie of wood. Ulin has a high density which makes it untreatable unclimbable and undrillable with standard pole line wood working tools. Special pole clamps would be required where "Ulin" is utilized as the wood specie. MAIN also recommends that square sawedpoles not be utilized, since climbing a square pole with lineman's hooks is almost impossible and very dangerous if attempted.

C. COMMUNICATION EQUIPMENT

The Single Side Band Communication Equipment was received at the port of entry in October 1981. The installation scheduled for November 1981, was delayed due to problems encountered in customs clearance. BAPPENAS and the Department of Trade issued the necessary documentation to permit duty free import of the equipment and PDO/RE requested the Port Customs Authority to issue permits necessary for the release of the equipment. PDO/RE is satisfied that duty free clearance of the equipment will not be possible in the near future and have paid the import duty required by the Port Customs Authority. The equipment was cleared through the Customs Authorities on the last day of March. This equipment according to the terms and conditions of the contract, is to be installed and operational one month after clearance of the equipment from the Customs Authority.

D. FIELD TRIP BY MATERIAL COORDINATOR

MAIN's Material Coordinator travelled to each of the Project service areas during this report period.

At the Sinar Rinjani Cooperative he inspected the temporary storage facilities and made recommendations concerning the construction of indoor storage racks, disposal of empty conductor reels, and that the covered carport be enclosed to make it suitable for temporary indoor material storage.

On South Sulawesi at Ujung Pandang, Mr. Wilson inspected the preformed grips that were wrongly shipped to Ujung Pandang which are actually for PLN's Central Java rural electrification project. This material has since been re-shipped to Semarang.

At the Sinar Siwo Mego Cooperative in Central Lampung, Sumatra the Material Coordinator inspected the in-use temporary warehouse facilities and found them full. He met with the Chairman of the Cooperatives Board of Directors and the forwarding agent assigned by PDO/RE, Varuna Tirta Prakasya. The Chairman agreed with Mr. Wilson's recommendation that the Cooperative lease available covered warehouse space in Kotagajah, near the Headquarters Complex site, until the warehouse in the Headquarters Complex is completed.

VI. CONSTRUCTION - REIL PROJECTS

A. LAMPUNG

The installations completed during the month and total installations of the Lampung REIL Project are as follows :

	<u>PREVIOUS</u>	<u>MARCH</u>	<u>TOTAL</u>
Signed Members	1,691	0	1,691
Service Drops	1,420	15	1,435
Houses Wired	1,455	5	1,460
Members Served	1,420	13	1,433
Meters Set	1,420	15	1,435
Poles Set	838	0	838
Guys Installed	359	0	359
Transformer Set	43	0	43
Maximum Demand	150 KW	143 KW	150 KW

In the Lampung service area MAIN's Field Supervisor has split the line survey and staking crew into three groups, thereby making it possible to increase the kilometers of line staked in a given time frame. During March 120 kilometers of line were staked which included twelve villages.

It would be possible to increase the kilometers of line staked even more if all of the survey and staking personnel were available to perform the task. Members of the staking crews are presently being assigned as night guards at the Cooperative office and material storage areas.

B. LOMBOK

The installations completed during the month and total installations on the Lombok REIL Project are as follows :

	<u>PREVIOUS</u>	<u>MARCH</u>	<u>TOTAL</u>
Signed Members	2,586	0	2,586
Service Drops	2,018	0	2,018
Houses Wired	2,234	0	2,234
Members Served	2,018	0	2,018
Meters Set	2,018	0	2,018
Poles Set	459	13	472
Guys Installed	212	32	244
Transformers Set	12	4	16
Maximum Demand	250 KW	237 KW	250 KW

In the Lombok service area MAIN's Field Supervisor assisted in the construction activity associated with the installation of a line to provide electric power to the village of Suralaga. Energization of this circuit is scheduled for 14 April 1982.

MAIN's Field Supervisor assigned to the Sinar Rinjani Cooperative will depart (service to be terminated) from Lombok on 16 April 1982 and from Indonesia on 21 April 1982.

C. LUWU

The installations completed during the month and total installations on the Luwu Mini REIL

Project are as follows :

	<u>PREVIOUS</u>	<u>MARCH</u>	<u>TOTAL</u>
Signed Members	415	0	415
Service Drops	415	0	415
Houses Wired	415	0	415
Members Served	415	0	415
Meters Set	415	0	415
Poles Set	102	0	102
Guys Installed	62	0	62
Transformers Set	0	0	0
Maximum Demand	67 KW	67 KW	67 KW

In April a generator and 220 volt lines will be installed in the village of Mangkutana. A seven hundred meter extension will also be added to the present Luwu Mini REIL system to serve a new market area.

D. OVERALL FIELD SUPERVISION ACTIVITY

Systems are now in operation in each of the three project service areas. MAIN's Field Supervisors are now constantly on call to provide operational help, guidance and supervision for these systems as well as the services they normally provide on system field design, survey and pole staking.

APPENDIX I

Personnel Assigned To The Project as of 31 March 1982

D.A. Dowling	-	Projects Director
E.S. Leffler	-	Project Lead Engineer
J.D. Kerr	-	Electrical Engineer
R.N. Key	-	Business Manager
P.V. Wilson	-	Material Coordinator
C.J. Whitby	-	Administrator
E.V. Borja	-	Distribution Engineer
T.L. Resabal	-	Distribution Engineer
G.S. Sanial	-	Distribution Engineer
D.K. Hoffer	-	Drafting Supervisor
F.P. Cachin	-	Field Supervisor
C.T. Nuez	-	Field Supervisor
R.M. Garcia	-	Field Supervisor
V.H. Sydiongco	-	Civil Engineer

Personnel Travel Details

Mr. E.S. Leffler - MAIN's Project Lead Engineer returned on 8 March 1982 from an R & R trip.

Mr. V.H. Sydiongco - MAIN's Project Civil Engineer departed Indonesia on emergency leave 29 March 1982. Mr. Sydiongco is expected to return to MAIN's Staff on 6 April 1982.

JOB CLASSIFICATION & MANMONTHS

Through 25 February 1982

JOB CLASSIFICATIONS	LOCATION	PLN	DGC	PRESENT PERSONNEL ASSIGNED	MANMONTHS		% CONS	% REMAIN
					ALLOCATED	CONSUMED		
Projects Director	Jakarta	x	x	D.A. Dowling	40	39.4	98.5	1.5
Business Manager	Semarang	x	x	R.N. Key	39	37.4	95.9	4.1
Administrative Asst.	Jakarta	x	x		24	10.6	44.2	55.8
Area Manager	Semarang	x		H.E. Johnson	24	15.6	65.0	35.0
Lead Elect. Engineer	Semarang	x			38	27.8	72.9	27.1
Civil Engineer	Semarang	x		E.M. Downing	24	25.8	107.5	(7.5)
Architect		x			3			
Field Supervisor	Semarang	x		H.E. Earl	37	36.4	98.4	1.6
Field Supervisor	Semarang	x		J.J. Bennet	34	31.6	92.9	7.1
Field Supervisor	Semarang	x		J.V. Hardman	35	32.8	93.7	6.3
Project Lead Eng.	Jakarta		x	E.S. Leffler	39	37.8	96.9	3.1
Electrical Engineer	Jakarta		x	J.D. Kerr	24	30.8	128.3	(28.3)
Distribution Eng.	Jakarta		x	E.V. Borja	24	17.1	71.3	28.7
Distribution Eng.	Jakarta		x	G.S. Saniel	24	18.8	78.3	21.7
Distribution Eng.	Jakarta		x	T.L. Resabal	24	13.4	55.8	44.2
Civil Engineer	Jakarta		x	V.H. Sydiongco	24	18.2	75.8	24.2
Drafting Supervisor	Jakarta		x	D.K. Hoffer	24	22.7	94.6	5.4
Field Supervisor	Lampung		x	F.P. Cachin	35	36.5	104.3	(4.3)
Field Supervisor	Lombok		x	C.T. Nuez	35	30.8	88.0	12.0
Field Supervisor	Luwu		x	R.M. Garcia	35	37.2	106.3	(6.3)
Material Coordinator	Jakarta		x	P.V. Wilson	12	11.1	92.5	7.5
Administration Manager	Jakarta		x	C.J. Whitby	-	5.2	-	-
Home Office	Boston	x	x	Various	90	64.5	71.7	28.3
							====	====
TOTALS					688	601.5	87.4	12.6
					===	=====		

APPENDIX II

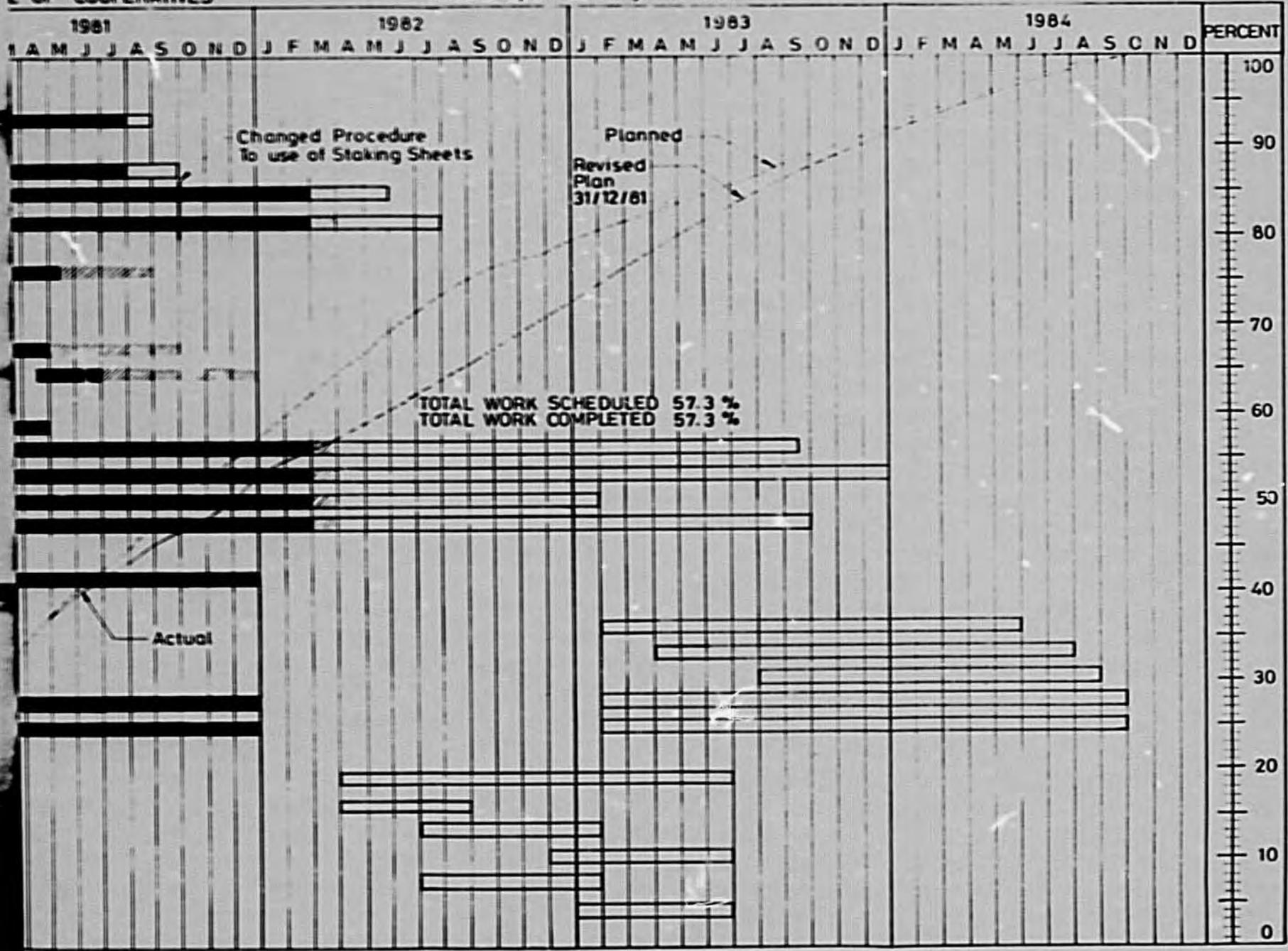
STATUS

TRIFICATION

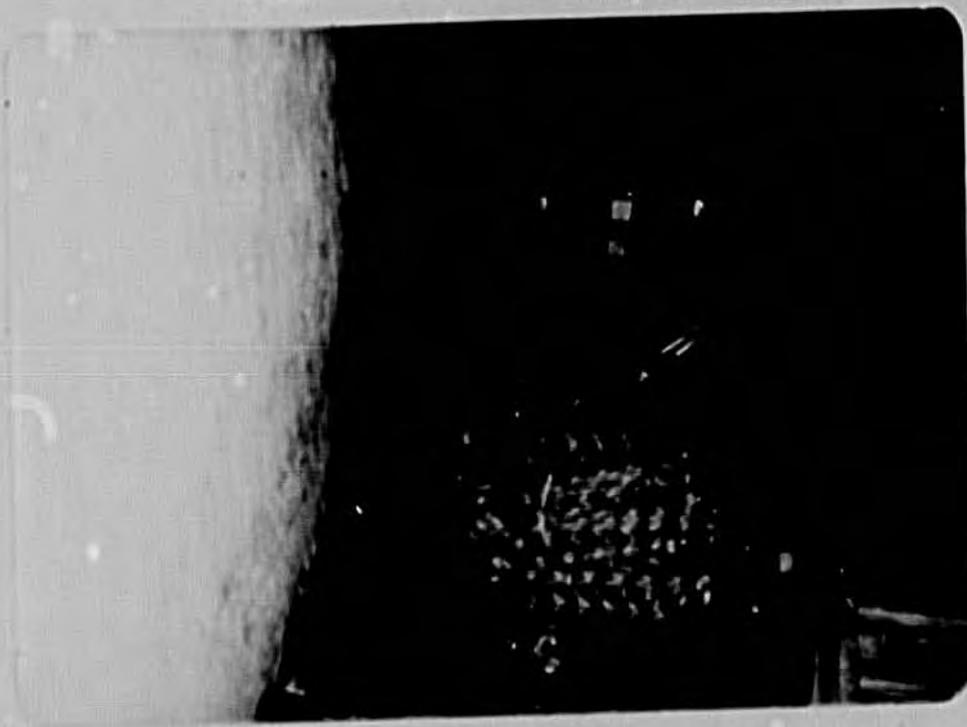
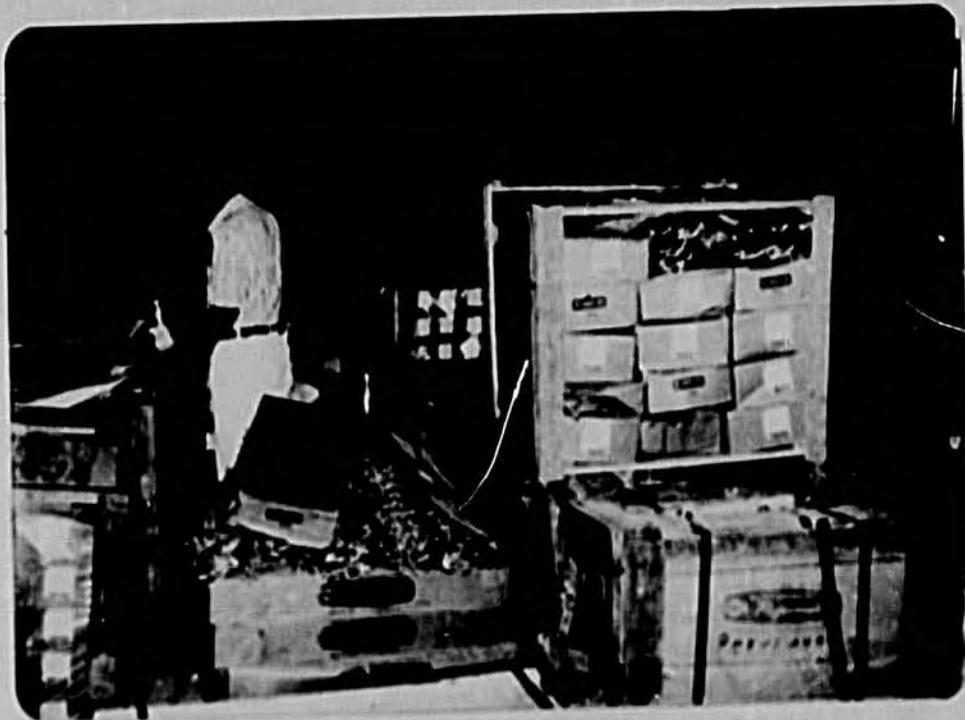
L OF COOPERATIVES

- 1. Bar Chart revised as of July 31, 1981.
 - 2. Bar Chart revised as of Dec 31, 1981
- Projected and completed percentages based upon activity months.

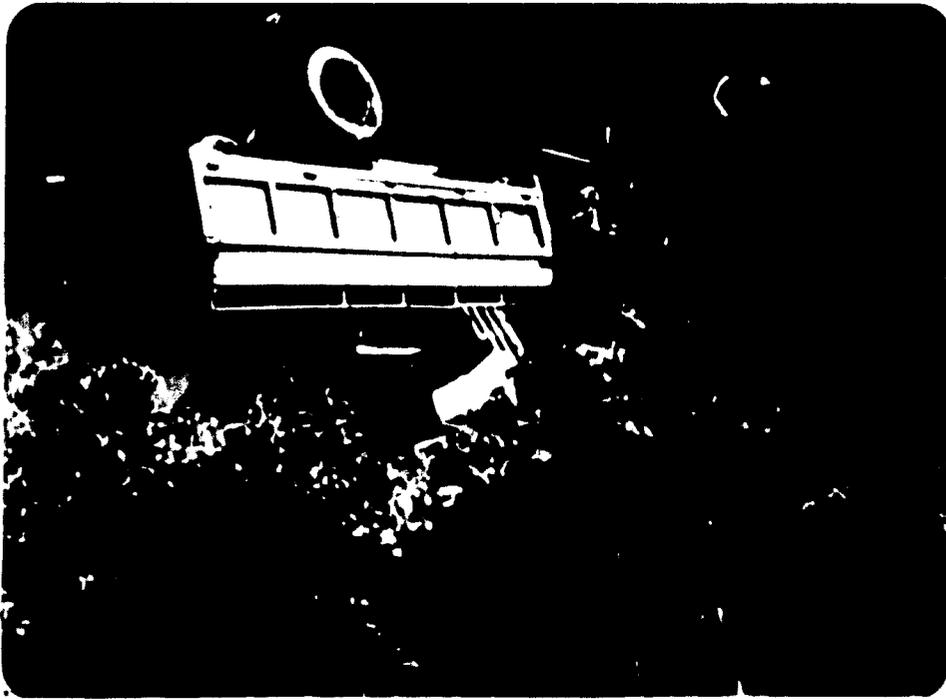
REPORTING PERIOD : Mar. 1982



APPENDIX III



The above photographs indicate improper packaging and their ultimate condition as received in Customs at the port of import, Ujung Pandang. This material is for the Samabotuna Cooperative located at Luwu, South Sulawesi.



A truck load of distribution transformers in transit between Ujung Pandang and the Samabotuna Cooperative. This accident caused damage to twelve transformers.



This test to destruction of an eye bolt was performed by the manufacturer in Taiwan and witnessed by PDO/KE and MAIR's material inspection team. Threads broke at 8,650 kilograms, double the specified strength. This material is to be supplied to the Samabotuna Cooperative in South Sulawesi.