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REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL CIPTA KARYA
DIRECTORATE OF SANITARY ENGINEERING

CONTRACT FOR CONSULTANT SERVICES
FOR
SURAKARTA WATER SYSTEM
NO. 01/WS-S/1/AID/78
AID LOAN 497-U-044

MONTHLY PROGRESS

REPORT NO. 18
MARCH 1980

BURNS & McDONNELL ENGINEERING COMPANY
AND
TRANS-ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE

USAID/Indonesia
Information Center



PDAAN 679

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A JOINT VENTURE

BURNS & McDONNELL Engineering Co.

Architect - Engineers

A JOINT VENTURE

Consultants - Planners

TRANS-ASIA Engineering Associates, Inc.

Please Reply to: Kotak Pos 105
Surakarta

No. 131/BM/TAE/SKA/80
5 April 1980

Mr. Joesanto Mertodiningrat
Director of Sanitary Engineering
Directorate General Cipta Karya
Jl. Pattimura No: 20
Jakarta Selatan

Subject : Contract for the Consultant Services for
Surakarta Water System, No. Ci/WS-S/I/AID/78
dated 26 October 1978.

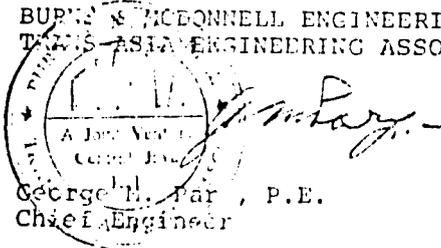
Dear Sir :

In accordance with Section 4.12 and Appendix I of the
subject Contract, we are pleased to submit fifteen
copies of Monthly Report No. 18 for the month of
March 1980.

We hope, that this report will meet with your approval.

Very truly yours,

BURNS & McDONNELL ENGINEERING CO./
TRANS-ASIA ENGINEERING ASSOC. INC.


George H. Par, P.E.
Chief Engineer

cc.	CJWSP	Semarang	(10 copies)
	USAID	Jakarta	(8 ")
	BM/TAE	Jakarta	(2 ")
	Burns & McDonnell	Kansas City	(1 copy)
	CJWSP - J	Surakarta	(1 ")
	SWE	Surakarta	(1 ")
	Mayor of Surakarta	Surakarta	(1 ")
	File		

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SECTION I
GENERAL

I-A NARRATIVE SUMMARY

The work is continuing on all four sections of the transmission main. One of the Contractors has accepted the Consultant's advice as regards construction management, and as a result, his output improved dramatically.

Pipe testing is proceeding with satisfactory results. All tests to date gave positive results, except for one which is continuing.

The Stateside Office of the Joint Venture is working an early acquisition of corporation stops from Ford Meter Box Company. The first shipment may be expected early in May. This would permit the operation of the transmission main.

The O & M Specialist has completed Phase I of his assignment and is preparing completion report. As soon as ready, the report will be distributed to all the recipients of the Monthly Report.

Meter Repair Specialist has completed the refurbishing of the Meter Repair Shop (except for the repair bench - see "Problems") and has begun training SWE personnel.

I-B PROBLEMS AND PROPOSED SOLUTIONS

The right of way problem appears to have been solved. The Manager of Section 1 CJWSF has assured the Consultant, that the right of way will be obtained early in April.

The problem of formal papers for the Rohan Company's shipment is being attacked from two sides by the Consultant. The Stateside Office of the Joint Venture will contact the supplier directly, while the Surakarta Office will once again attempt to get a conditional clearance assuring the Customs Office, that the formal papers will arrive within reasonable time.

I-C VISITATION

On 26 March Mr. Weston Goodnow a principal of Burns and McDonnell arrived in Jakarta for two weeks in order to acquaint himself with the project status to date.

Mr. Goodnow accompanied the Liaison Officer to several conferences with Cipta Karya and USAID representatives in Jakarta regarding the extension of the contract and afterwards spent several days at the Project area in Surakarta. Since Mr. Goodnow was in charge of the original design of the transmission pipeline, his advice at the construction site was very valuable. Among others, he advised on construction methods and explained the intent of the original design.

In addition, Mr. Goodnow handcarried eight meter valves, which completed the supply contract with P.T. Colcorindo Raya and assumed the responsibility of coordination of supply shipments from the United States.

SECTION II
ADMINISTRATION

II-A SUBMISSIONS/APPROVALS

Consultant's Invoice No. 17 for February 1980 U.S. Dollar reimbursible expenses was submitted to Cipta Karya on March 1, 1980 and was approved by CK on March 19, 1980. Consultant's Rupiah Invoice No. 9 was submitted to Cipta Karya on 8 March 1980. These submittal are in accordance with the Contract Appendix II, page II-15.

II-B CONTRACT STATUS

Appendix I shows the contract status in man/months expended versus man/months authorized for the project. As can be seen the Materials Coordinator's time has already been expended, although his work is necessary for the duration of the construction.

The Consultant requested Cipta Karya at the December monthly meeting for the permission to extend his time. Verbal approval has been granted.

Appendix II shows billings and balances of approved expenditures on the contract to date. The vehicle/gasoline/maintenance costs have run over the allocated amount. The reason for this overexpenditure is, that soon after the allotments on the contract were made, the devaluation of Rupiah has been announced. Therefore the original costs of the vehicles and maintenance had risen considerably. There was no adjustment made to compensate for the additional costs.

The Consultant requested Cipta Karya at the December monthly meeting to increase the allowance for local transportation from the contingency allowance.

This question has been raised again, during the meeting of of January 10, 1980. Cipta Karya approved these expenses. The Consultant has been informed, that single line items may run over the allocated amount, provided, that the gross Rupiah expense is kept within the approved allocation.

The Scope of Work for the extension and additional work on the Consulting Contract has now been settled. Now the negotiations must be completed, after which the Consultant was promised an early Notice to Proceed from Cipta Karya.

II-C PERSONNEL

The Surakarta office personnel in March were as follows :

E x p a t r i a t e s

- George M. Pary, P.E., Chief Engineer
arrived 17 August 1979
- Thomas G. Fodor, O & M Specialist
arrived 25 December 1978
- James F. Baucom, Pipeline Engineer
arrived 26 September 1979
- Bernardo B. Bayongan, Management Specialist
arrived 5 November 1978
departed 10 March 1980
- George R. Pike, Meter Specialist
arrived 26 September 1979.

I n d o n e s i a n

Professional and Technical :

- A.F. Dengah, Counterpart Chief Engineer
arrived 8 November 1978

- Suyatno Yuwono, Counterpart Hydrogeologist
arrived 5 January 1979

- Mohamad Khalil, Materials Coordinator
arrived 2 October 1978

- Abdul Kadir, Senior Inspector
arrived 9 October 1979

- Bambang Agus Salam, Inspector
arrived 1 May 1979

- Mohamad Syarif Lembah, Inspector
arrived 1 May 1979

- Gatot Bramono, Inspector
arrived 19 November 1979

- Soewanto, Inspector
arrived 11 March 1980

- Wardoyo, Inspector
arrived 11 March 1980

- Akhmad Aries, Draftsman
arrived 13 April 1979

- Translator - Vacancy

- Yonathan Jowic, Accountant
arrived 2 December 1978

Administrative :

- Dradjat Atmardjo, Office Manager
arrived 2 October 1978
- Sri Hartati, Secretary
hired 1 June 1979
- Dewi Yuliaty, Typist
hired 7 February 1979,
resigned as of 31 March 1980
- Rubiyo, Clerk
hired 1 November 1978
- Chaiz Hidayati, Administrative Clerk
hired 8 October 1979
- Pamudji Rahardjo, Driver
hired 2 October 1978
- Soedarno, Driver
hired 1 December 1979
- Sutrisno, Driver
hired 2 April 1979
- Djoni Santosa, Driver
dismissed after 4th written reprimand
- Ermita Taher, Supply Clerk/Labor
hired 19 March 1979
- Arum Munawar, Copy Machine Operator/Labor
hired 8 March 1979
resigned 11 March 1980

- Djunhan Hardi, Expeditor/Labor
hired 2 January 1979
- Endang Tri Siwi D.M., Receptionist/Labor
hired 1 October 1979
- Suwarno Hadi, Office Boy/Labor
hired 1 November 1978
- Mulyatmono, Watchman/Labor
hired 9 October 1978
- E.M. Suprpto, Field Assistance/Labor
hired 23 November 1979
- Ign. Tri Setya, Copy Machine Operator/Labor
hired 17 March 1980

SECTION III

ENGINEERING & MANAGEMENT

III-A OFF-SHORE PURCHASED MATERIALS

III-A-1 American Cast Iron Pipe Company

The contract has been fulfilled satisfactorily and the Consultant has recommended to Cipta Karya the release of the 10% retention.

III-A-2 Colcorindo Raya

The missing eight valves and connection fittings have been brought to the jobsite by one of the Consultant's Principals from Kansas City in his personal luggage. The Consultant recommended to Cipta Karya the release of the 10% retention.

III-A-3 The Rohan Company

The shipment which arrived to Semarang on 7 August 1979 has not yet been cleared through the Customs. However the Consultant will attempt to get the required documentation by the Kansas City Office, as well as obtain a conditional clearance working from the Surakarta Office.

Of particular importance in this shipment is the water meter test bench, which is required by the Meter Specialist for the new Meter Repair Shop, in order to complete the training of SWE's meter repairmen.

III-A-4 Clow Corporation

Working directly with the Clow Corporation in the United States, the Consultant received from them a confirmation, that all the missing and damaged parts will be replaced on a priority basis. It is expected, that the date of shipment will be available within the next reporting period.

III-B CONSTRUCTION OF TRANSMISSION PIPELINE

III-B-1 General

The Consultant was advised the last of March that the letter of credit was opened to Ford Meter Box Company. It is hoped the delay in opening said letter of credit will not further delay production and shipment by the anticipated increase in price. A plan has been formulated to obtain a partial shipment of brass corporation stops from Ford Meter Box Co., so that the transmission main can be put into operation prior to receipt of the balance of the order. Final trim may have to be installed by the Water Enterprise personnel should the two contractors be completed otherwise and be excused from waiting for delivery of all the brass goods.

III-B-2 Work in Progress

- A. Contractor Tukadmas has started installation of the $\varnothing 600\text{mm}$ inlet and outlet piping from the Kartasura Reservoir pipe gallery towards the highway. Concrete wing walls were completed at the south side of the Wonosobo and north side of the Brambang Rivers. The hydrostatic test was attempted on that section between

Station 50+12 to 76+00 and a defective joint was found. Repairs have been made but pressurization has not been accomplished. Work is continuing where not stopped for lack of easement through Boyolali Regency. The new inspector reported and was assigned to Section A on 10 March. Actual completion of Section A is 58.2% and with other considerations is recorded to be 78.2%.

- B. Contractor Lepen Kencana Utama has completed hydrostatic testing of the transmission main between Stations 20+00 and 50+00. He has also completed construction of the second stream crossing. The Contractor has completed the required rework to lower the pipe according to gradient and installation is continuing. The letter advising the Contractor to proceed with the modifications at Cokrotulung Springs as agreed 10 March was not received from CJWSP therefore there has been no activity on the added work. Actual completion of Section B is 51.8% and with other considerations is recorded to be 71.8%.
- C. Contractor Tukadmas is installing the transmission main within the city of Surakarta with two crews and has one crew working in Kartasura southward towards the Reservoir. He had started excavation between Stations 138+00 and 165+00 but was stopped as a result of Sukoharjo Public Works' decision to widen the roadway from six to eight meters. The Project approved relocating the transmission main two meters north of the planned location and authorized a change to pay the Contractor for work done. Actual completion of Section C is 4.4%.

D. Contractor Lepen Kencana Utama is installing the transmission main utilizing four crews in various locations. The Surakarta Public Works has not completed design of the slow traffic roadway near Jebres and the Contractor is being held because of it. The Director was requested to provide with the drawing as soon as possible. The Contractor has constructed the temporary office and furnished it partly. The new inspector reported and was assigned to Section D on 10 March. Actual completion of Section D is 20.5%.

III-C GROUNDWATER EXPLORATION AND WELL DEVELOPMENT PROGRAM

No action this month.

III-D MANAGEMENT ASSISTANCE PROGRAM

No action this month.

III-E O & M ASSISTANCE PROGRAM

The O & M Training Program has been successfully finished, with all twenty-seven participants who completed their course work receiving diplomas from Cipta Karya on the 20th of March.

The O & M Specialist is now completing his Report and Recommendations for Phase I of the O & M Assistance Program. He is expected to leave R.I. early in April.

III-F METER REPAIR TRAINING PROGRAM

While waiting for equipment ordered and test bench to be delivered, the Meter Specialist spent time on routine work necessary for the coming meter repair classes. A telex was sent to the Rohan Company, again requesting proper docu-

mentation, so that the meter repair bench may be released from the Customs. The Meter Shop is essentially completed except for meter racks and water circulation system which are expected to be completed in early April.

The Meter Specialist is preparing a formal course for the prospective meter repairmen. 34 slides have been received from the Precision Meter Co. in Florida and the written material is virtually complete.

III-G CONFERENCES

Several executive conferences were held in Cipta Karya offices. During these conferences the scope of work for the extension and new design obligation of the Consultant were finalized. Also, a general agreement on costs has been achieved. It is expected, that in April the Consultant will receive the "Letter of Intent" which will authorize further work and the mobilization of the necessary personnel.

Job progress conference was held in Surakarta on 31 March with the representatives of Cipta Karya, CJWSP, USAID, and BM/TAE. Full report on the meeting is enclosed in Appendix VI.

III-H ACTIVITIES PLANNED FOR NEXT MONTH

The Consultant will work close with CJWSP in order to help clear the Rohan Company's shipment through the Customs.

A meeting has been called to discuss the proposed shut down of the existing transmission main in order to connect the new main to it in various locations.

The Contractors will have to marshal all required materials and equipment to do the work in a continuous operation at all locations simultaneously. Sections A and B have been given first priority in order to complete them to the point water can be put into the Kartasura Reservoir and have that storage capacity to add the water available to the people of Surakarta.

Water Meter Repair Shop will be completed and training of repairmen will start.

O & M Report will be completed, including program for the rehabilitation of the existing water distribution network.

SURAKARTA WATER PROJECT
 REPORT OF MAN-MONTHS EXPENDED BY CONSULTANT
 BURNS & McDONNELL/TRANS-ASIA ENGINEERING ASSOCIATES

CONTRACT NUMBER 01/MS-S/AID/78 AID LOAN 497-U-044	MAN - MONTHS			
	FOR	CUMULATIVE	% OF TOTAL	TOTAL IN
	March - 1980	THROUGH 31 March - 1980	SCHEDULE	CONTRACT SCHEDULE
EXPATRIATES				
Principal	0	0.45	22.5	2
Liaison Engineer	0.09	2.43	81	3
Procurement Engineer	0	6.5	100	6.5
Chief Engineer	1	14.5	72.5	20
Pipeline Engineer	1	6.1	38.1	16
Hydrogeologist	0	5.7	47.5	12
Drilling Specialist	0	2.8	23.3	12
Management Specialist	0.4	16.0	100	16
O & M Specialist	1	15.4	73.3	21
Meter Specialist	1	6.1	76.2	8
EXPATRIATE TOTAL	4.49	75.99	65.2	116.5
INDONESIAN PROFESSIONAL & TECHNICAL				
Counterpart Chief Engineer	1	16.6	83	20
Construction Supervisor	0	5.9	42.1	14
Hydrogeologist	1	14.8	98.6	15
Materials Coordinator	1	18	128.5	14
Inspectors	5.4	33.2	69.1	48
Draftsman	2	14	87.5	16
Translator	0	11.7	97.5	12
Accountant	1	16	72.7	22
INDON. PROF. & TECH.	11.4	129.3	85.3	161
INDONESIAN ADMINISTRATIVE				
Office Manager	1	18	90	20
Secretary	1	17	85	20
Typist	0	12.6	57.2	22
Clerks	3	51	115.9	44
Drivers	4	58	72.5	30
Laborers	5.8	75.7	47.3	160
ADMINISTRATIVE TOTAL	14.8	232.3	67.3	346

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APPENDIX I

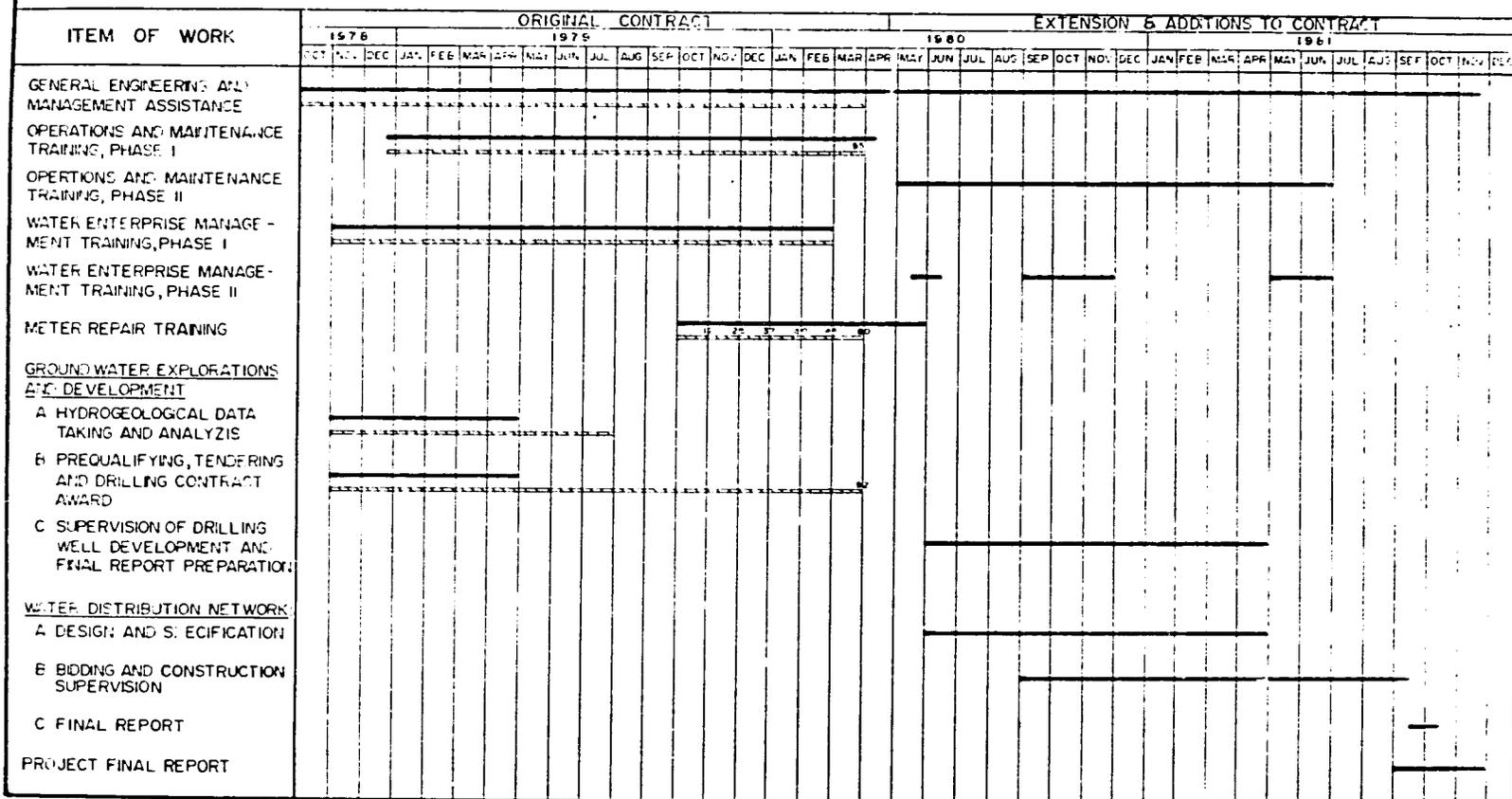
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SURAKARTA WATER PROJECT
REPORT OF ENGINEERING COSTS
BURNS & MCDONNELL/TRANS-ASIA ENGINEERING ASSOC.

CONTRACT NO. 01/WS-S/AID/78 SIGNED 26 OCT. 1978 START 1 JAN. 1978 END 31 JAN. 1981 REIMBURSABLE EXPENDITURES	COSTS FOR	CUMULATIVE COSTS THROUGH MARCH 1980		CUMULATIVE PAYMENTS THROUGH MARCH 1980			TOTAL BUDGET ESTIMATE CONTRACT
	MARCH 1980	AMOUNT	% OF TOTAL BUDGET ESTIMATE	AMOUNT RECEIVED IN	TOTAL AMOUNT RECEIVED THROUGH	% OF TOTAL BUDGET ESTIMATE	
U S DOLLARS							
Salaries and Related Costs	24,379,55	426,073,91	69,5	27,004,98	401,694,36	65,5	\$612,92
Transportation	483,45	16,742,88	27,6	-	16,259,43	26,8	60,63
Equipment	-	-	-	-	-	-	36,00
Miscellaneous	-	30,678,32	92,4	-	30,678,32	92,4	33,09
Training	-	-	-	-	-	-	14,54
Contingencies	-	-	-	-	-	-	75,72
TOTAL DOLLARS	24,632,00	473,264,11	56,8	27,004,98	448,632,11	53,8	\$533,01
INDONESIAN RUPIAH							
Salaries	9,442,767	55,941,066	78,6	9,652,133	46,496,299	65,3	71,150,000
Transportation	2,659,664	22,210,617	78,7	2,766,506	19,550,953	69,3	28,195,000
Housing	2,600,000	30,200,000	94,5	2,800,000	27,400,000	85,7	31,950,000
Vehicle Costs	918,852	28,243,622	112,7	685,000	27,324,770	109,1	25,050,000
Equipment Costs	2,507,300	13,107,435	99,6	928,125	10,600,135	90,6	13,153,000
Miscellaneous	3,664,215	20,871,590	84,6	1,070,140	16,987,475	65,8	24,670,000
Contingencies	10,611,135	19,416,960	100,0	-	8,805,625	45,3	19,416,900
TOTAL RUPIAH	32,623,933	189,991,290	88,9	18,701,904	157,167,357	73,5	213,586,560

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SURAKARTA WATER PROJECT SCHEDULE OF ENGINEERING AND MANAGEMENT ASSISTANCE ACTIVITIES UPDATED THROUGH MARCH 1980



LEGEND:
 PLANNED
 ACTUAL

BURNS & Mc DONNELL ENGINEERING CO.
TRANS ASIA ENGINEERING ASSOCIATES INC.

f

MEMORANDUM OF MEETING

Subject : Management and Technical Problems of
Surakarta Water Enterprise.

Date : 31 March 1980

Time : 10:00 a.m. - 01:00 p.m.

Place : Surakarta Water Project Office
Jl. Brig.Jend. Sudiarto 534, Surakarta.

Participants :

1. Mr. Oemarsiddik Hadiasmoro - Head of Sub-Directorate of Development
2. Mr. Suwandi Sanudi - Head of Development Section
3. Mr. Krisno Darusman - Project Manager CJWSP
4. Mr. Harsono - Head of Div.I - CJWSP
5. Mr. Hari Wahyuadi - CJWSP
6. Mr. Soedarto - Director SWE
7. Mr. Soelarno - Chief Engineer SWE
8. Mr. Paul Thorn - USAID
9. Mr. A. Grayson - USAID
10. Mr. Weston Goodnow - Burns & McDonnell, Kansas City
11. Mr. F. Midgett - BM/TAE
12. Mr. George M. Pary - BM/TAE
13. Mr. J.F. Baucom - BM/TAE
14. Mr. T.G. Foder - BM/TAE
15. Mr. G.R. Pike - BM/TAE
16. Mr. Suyatno Yuwono - BM/TAE
17. Mr. Abdul Kadir - BM/TAE

I. Mr. George M. Pary of BM/TAE reported as follows :

1. Construction of the transmission pipe is still going on Sections A, B and starting to go Sections C and D.

2. Meter Repair.

Meter workshop is almost complete, except the Test Bench and small finishing details.

3. O & M and Meter Repair Training Program has been completed, the training was conducted by O & M Specialist and Meter Specialist of EM/TAE.
4. The Consultant is expecting a Letter of Intent for the Contract Extension. This will enable the Consultant to start the mobilization for the survey and distribution net design.
5. The comments and suggestions about the specification for well drilling have not yet been received by the Consultant.

II. PIPELINE CONSTRUCTION

1. Land easement of the sections A and C must be completed as soon as possible (especially in Boyolali area). The owners are asking for payment before the construction starts.

Since the money for the payment about Rp. 11,000,000.- is not on hand yet, possible solution may be taken by borrowing from another source. Mr. Soedarto of SWE is requested to ask the Mayor of Surakarta to borrow the money for two months. Alternatively, the help of Bupati Boyolali and Agraria Office is needed, their guarantee to the owners that payment will be done later, may enable the start of construction of this section.

2. Estimated completion work of the Sections A and B is about 51%.
Estimated completion work of the Sections C and D is about 8%.

Critical area are Sections A & B. SWE and Cipta Karya want these sections to be completed in May 1980. The reason is that the additional water in Kartasura Reservoir (Sections A & B) will meet the water demand of the city of Surakarta.

III. O & M PROGRAM

1. O & M and Meter Repair Training Program has been accomplished already. The final result of the training has been submitted to the Ministry. Total participants is 27 persons, and all of them have passed the examination.
2. O & M completion report will be submitted in 10 - 12 days, including the manual of O & M.
3. Leaks survey should be performed as soon as possible.
4. The workshop should be completed as soon as possible.
5. SWE will hire 9 additional personnel for technical division, 3 persons are required as superintendents, the remaining 6 persons are supervisors.
6. Provide the material needed for replacement and improvement of the existing distribution system.
7. Local contractors can be employed for the improvement of the existing distribution system.
8. Chemical water analysis laboratory will be equipped as soon as approval of the list of equipment is obtained.

IV. WATER METER REPAIR WORKSHOP

The workshop has been completed, except the Test Bench, and a few minor items.

The Test Bench is needed in order to start the training program, and it is expected within 2 weeks.

V. SWE'S TECHNICAL & MANAGEMENT PROGRESS

Mr. Soedarto of SWE reported :

1. The personnel of SWE are dependent upon the policy of the Mayor.
2. The basic tariff for water will be increased in May 1980, the new regulations will be issued by the Municipal Authorities.
3. SWE's employee salary will be arranged reasonably, considering the budget condition.
4. Reorganizing the positions of the employees requires a long time, because of the Municipal regulations.
5. SWE requested continuous supervision, advice and directives from Cipta Karya to perform the best job possible.

Mr. Soedarto reported that the SWE's personnel have been performing all job descriptions recommended by the Consultant.

The Consultant's Management Specialist has also improved and trained the personnel concerned to work in accordance with the job description.

The vehicles from USA cannot be used until the licenses are issued. It is expected to be complete within one month. The Ministry advised and warned SWE that the program and jobs should be properly done and do not let it go down with or without direct control by the Ministry.

At last the Consultant stated that the design for the Distribution System will be started as soon as the Extension of Contract is issued by the Ministry.

The meeting was closed by Mr. Oemarsiddik.