

資 料 一 3

インドネシア側の回答
(「イ」側の組織図別添)

SOME NOTES TAKEN FROM THE DISCUSSION DURING COURTESY
CALL OF JAPANESE GUIDANCE TEAM FOR CGSC PROJECT.

(MARCH 11, 1988)

1. Mr. SOEWASONO (Director of Irrigation I., DGWRD).

A. With regard of the scope of works of Directorate of Irrigation I and Directorate of irrigation II in their responsibility for irrigation development in Indonesia, he explained as follows :

(1). Principally, both directorates are similarly dealt with irrigation development efforts but the emphasis is different :

. Directorate of Irrigation I is responsible for small and minor irrigation development through Provincial Irrigation Projects. The aim is to strengthen the development of irrigation in the Provinces by means of increasing their capabilities and qualifications of all development efforts.

To develop standard of irrigation design, and to perform irrigation administration through operation and maintenance activities.

. Directorate of Irrigation II responsible for ground water development and major construction works through some special project organizations.

(2). Thus the difference between the two directorates is not in area, but more emphasis on the scope of works.

(3). Meanwhile, some irrigation development works are also executed by other directorates such as; Directorate of Swamps and Directorate of Rivers, but they should perform the works in accordance with the standard design developed by Directorate of Irrigation I, what more, the irrigation administration of such works is the responsibility of Directorate of Irrigation I.

B. Concerning his comments and expectation of CGSC Project, he explains as follows :

- (1). CGSC has been implemented through our full effort, but we have been facing a certain constraints for having a very severe budget condition. Therefore some activities were not possible to be fully implemented according to our previous expectation. We have been encountered by some challenging burdens for increasing the quality of irrigation works within the limitation of facilities as well as resources.
- (2). There are still much to do with CGSC after the technical cooperation, that is to continue the present achievements and to cope with other irrigation fields such as operation and maintenance technology.
- (3). We assure that it is still highly expected to have further cooperation with the Government of Japan through CGSC within a broader scope of works, to assist the Directorate of Irrigation I for increasing the quality of all development efforts. For instance, through the term of "Irrigation Engineering Service Center-IESC" or something alike. (The Guidance Team Mission of the Government of Japan for CGSC is always welcome freely to ask any information or to clarify anything concerning organization, scope of works and so on.)
- (4). CGSC is still consider to have an appropriate position to assist Directorate of Irrigation I in particular, other irrigation projects in general for increasing the quality of all development efforts of irrigation works. This matter can be done through one of the role of CGSC for dissemination of guidelines, standards, procedures, manuals, criteria etc. Or supervising, training and guidance to all projects in the provinces. Thus, CGSC is still needed to assist the technological development of irrigation works.

(5). It is intended therefore, to extend the scope of works of CGSC in the near future to cover a broader sense of irrigation engineering performance.

C. Concerning the relationship of CGSC and IHE, ARD, he explained as follows :

- (1). From the point of view of organizational principle, IHE is a scientific back-bone of Directorate General of Water Resources Development (DGWRD).
- (2). CGSC is put under IHE, through a particular decree of Minister of Public Works in the form of "Research Station for Irrigation Structures" with a certain remarks that; "The Research Station as although put under the organizational frame-works of ARD, the operational activities, however, should always support the need of Directorate General concerned. Therefore, all activities of CGSC should operationally support the technical matter of DGWRD through DOI I on the premise that the administrative matter should be operated under the Institute of hydraulic Engineering. Thus, the working relationship remains as it is (what have been done in the past).
- (3). Having CGSC as a project status alone, will have some disadvantages on the career planning of the staff being work as civil servant. But, as a structural organization under the IHE alone, cannot utilize the budget for development sector to support directly to the activities of DOI I, DGWRD.

---ooOoo---

2. Mr. SOEBANDI WIROSOEMARTO (Director General of Water Resources Development, Ministry of P.W.)

A. With regard of his comment, opinion and future expectation of CGSC he explains as follows:

- (1). At the moment, we have been encountered by a very difficult situation to support the project with an adequate budget allocation, including CGSC as one of the projects operated under the DGWRD.
- (2). We did not give a low priority to CGSC, but simply because of our hard situation on budgetary condition. The government revenue is very-very limited, so we can only support CGSC so far with a very limited budget, just enough to operate the minimum condition as a "software" project under DGWRD.
- (3). We are therefore, still looking forward to having support from the Government of Japan for the future extension of CGSC activities, including the possibility to establish a more extensive scope of works of Irrigation Engineering. (Whatever will be the name, is not important, but the works should cover irrigation engineering and its related aspects.)

B. Concerning the organizational structure of CGSC in its relation with IHE, he explained as follows;

- (1). One should not be confused with the present organizational status of CGSC, we have "job description" either as a "project" status (CGSC Project) or as a "research station" under IHE, ARD. The activities of CGSC as a "project" should be guided by DGWRD through DOI I. While the activities as a "research station" should be guided by ARD through IHE.
- (2). We will assign CGSC with money to support its activities related to DGWRD as long as we have financial support

from the Government. Especially in an attempt to strengthen its role as system development staff and dissemination of the developed system to the water resources development projects, as well as their improvement and actual implementation.

- (3). As a "research station", CGSC should develop systems which are applicable for DGWRD and those systems should be further disseminated to DGWRD's projects.
- (4). As a "project" status, CGSC activities is more straightforward by using the past experiences of DGWRD's projects.

-----ooo000ooo----

Colombo Plan Experts for CGSC

A

Position : The Colombo Plan Experts are proposed to the government of Japan to replace the position of the current Japanese experts under the coordination of JICA which will terminate on March 31, 1988.

B

Activities :

- (1) To take over the activities of the Japanese experts for guiding CGSC staff through the following responsibility.
 - i) To continue the necessary guidance to implement the developed system during the technical cooperation in CGSC.
 - ii) To give the necessary advice and guidance for CGSC staff in executing the review or to make some adjustment of the technological development.
 - iii) To take the necessary effort to enhance the transfer of technology through the day-to-day activities.
- (2) To assist the preparation of any efforts or endeavour toward the establishment of "Irrigation Engineering Service Center" as an extension scope of works of CGSC through the Technical Cooperation program of the Government of Japan.



MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
DIRECTORATE OF IRRIGATION
CONSTRUCTION GUIDANCE SERVICE CENTER PROJECT
Jalan Cut Mutiah Kotak Pos 47 Telp. 71344, 71345, 71364, 71365 BEKASI

C O V E R I N G - L E T T E R

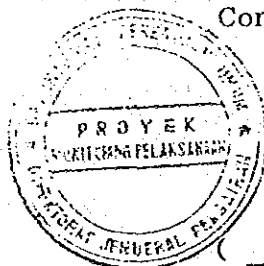
Our Ref. No. : UM.01.01-A1.10.03/10.

To : Mr. M. Suzuki
Team Leader, Japanese
Expert Team for CGSC Project.-

No.	PARTICULAR :	NUMBER Of Copy	REMARKS :
1.	Answer of questionnaire for Technical Guidance Team of the Government of Japan in CGSC.	one (1)	Submitted to you from DGWRD to answer your letter of March 7, 1988 No : JET-81-87.

Bekasi, March 15, 1988.

Construction Guidance Service
Center Project,



A. Hafied A. Gany, Ph.D.)-
Project Manager.

C.C :

ANSWER OF QUESTIONNAIRE FOR TECHNICAL GUIDANCE
TEAM OF THE GOVERNMENT OF JAPAN IN CGSC.

I. Organization of DGWRD , position and future organization of CGSC. (Regarding to the organization and CGSC activity, and further position of CGSC.)

1. The main task and duty of DOI-I and its relation to DOI-II :

(1) Both Directorates are similarly dealt with irrigation development efforts but the emphasis is different:

. Directorate of Irrigation I is responsible for small and minor irrigation development through Provincial Irrigation Projects and some special projects. The aim is to strengthen the development of irrigation in the provinces by means of increasing their capabilities and qualifications of all development efforts concerned.

To develop standard of irrigation design and to perform irrigation administration through operation and maintenance activities. (Nationwide Irrigation Administration.)

. Directorate of Irrigation-II is responsible for ground water development and major construction works through some special project organizations.

(2) Some irrigation development works are also executed by other directorates such as; Directorate of Rivers and Directorate of Swamps, but they should perform the works in accordance with the design standard developed by Directorate of Irrigation-I, and irrigation administration of such works should be under the responsibility of Directorate of Irrigation-I.

(3) The difference between the two directorates is not determined by area, but more emphasis on the scope of works.

2. The working relationship of ARD and IHE in line with the above mentioned organizations are as follows :

(1) From the point of view of organizational principle, IHE is performing its activities under the ARD as a scientific back-bone of all directorates under DGWRD. (Not by

administrational means, nor by operational.)

- (2) The job discription of IHE as according to the Minister of Public Works' decree No. 211/KPTS/1984 as follows:

Institute of Hydraulics Engineering has a responsibility to guide, to implement, to coordinate and to execute research and development of water resources aspects in accordance with guidelines of the Agency for Research and Development, Ministry of Public Works.

In order for IHE to be able to perform the above responsibility, the following functions are assigned:

- a. To arrange research program, development and experiment of water resources aspects;
- b. To implement, to coordinate and to execute research, development and experiment of water resources aspects;
- c. To study and evaluate the results of research, development and experimental of water resources;
- d. To prepare reports and to disseminate the results of research, development and experiment of water resources.

3. The position of CGSC under IHE :

- (1) CGSC Project is put under IHE, through a particular decree of Minister of Public Works in the form of structural organization named "Experimental Station for Irrigation Structures" with a certain remarks that: "The Experimental Station as although put under the organizational frameworks of ARD, the operational activities, however, should always support the needs of Directorate General concerned". Therefore, all activities of CGSC should operationally support the technical matter of DGWRD through DOI-I on the premise that the administrative matter should be operated under the Institute of Hydraulics Engineering. Thus, the working relationship remains as it is (what have been done in the past). This is to consider enough and suitable organization as well as working relationship.

4. Number of staff of CGSC, and their status under ARD :

(1) Being as a "project" status, CGSC personnels are fully paid by DGWRD, both salary and other incentives, while the permanent salary of those who are holding the position as civil servants are paid through the routine budget of the Ministry of Public Works under the respective unit. Thus, all project staff are managed and organized fully by DGWRD through DOI-I.

However, having CGSC as a "project" status alone, will have some disadvantages on the career planning and uncertain future expectation of the staff both project staff and those who are having civil servant status.

(2) On the other hand, CGSC as a structural organization under the IHE alone, cannot utilize the operational budget from the development sector to be able to support directly to the operational activities of DGWRD through DOI-I.

(3) The present organizational status of CGSC has been working through a clear "job discription" either as a "project" status under DGWRD or as an "experimentatal station" under IHE. The activities of CGSC as a "project"(including salary wages and management of all related staff) should be under the guidance of DGWRD through DOI-I.

DGWRD is willing to assign CGSC with the necessary budget support to implement its activities related to DRWRD as long as the financial support from the government available.

On the other hand, the activities of CGSC as an "experimen-tal station" (including salary , wages and management of all permanent civil servant staff), should be under the guidance of ARD through IHE.

CGSC therefore, will remain as a permanent organization under this status, to encorage the career planning and the clear future expectation of the staff. Above-all, the acti-vities are still possible to support directly to DGWRD through DOI-I.

5. From the above explanation, it is clear that CGSC activities in the future will remain the same, i.e. to support the technological development of DGWRD through DOI-1.
6. So far, there is no organizational change as related to CGSC activities.

7. Colombo-Plan Expert for CGSC:

(1) Position:

The Colombo-Plan Experts are proposed by the Government of Indonesia to the Government of Japan to replace the position of the current Japanese Experts working under the coordination of JICA which will be terminated on March 31, 1988.

(2) Activities:

- a. To take over the activities of Japanese experts for guiding the remaining activities of CGSC through the following responsibilities :
 - . To continue the necessary guidance for the implementation of the developed systems (during the previous technical cooperation in CGSC).
 - . To give the necessary advice and guidance for CGSC staff in the execution of some review or some adjustment of the technological development (set-up during the previous technical cooperation in CGSC).
 - . to take the necessary endeavours and effort to enhance the transfer of advanced technology to Indonesian counterparts through the day-to-day activities.
- b. To assist the preparation of any efforts or endeavour toward the establishment of "Irrigation Engineering Service Center" as an extension scope of works of CGSC through another Technical Cooperation Program of the Government of Japan and the Government of Indonesia.

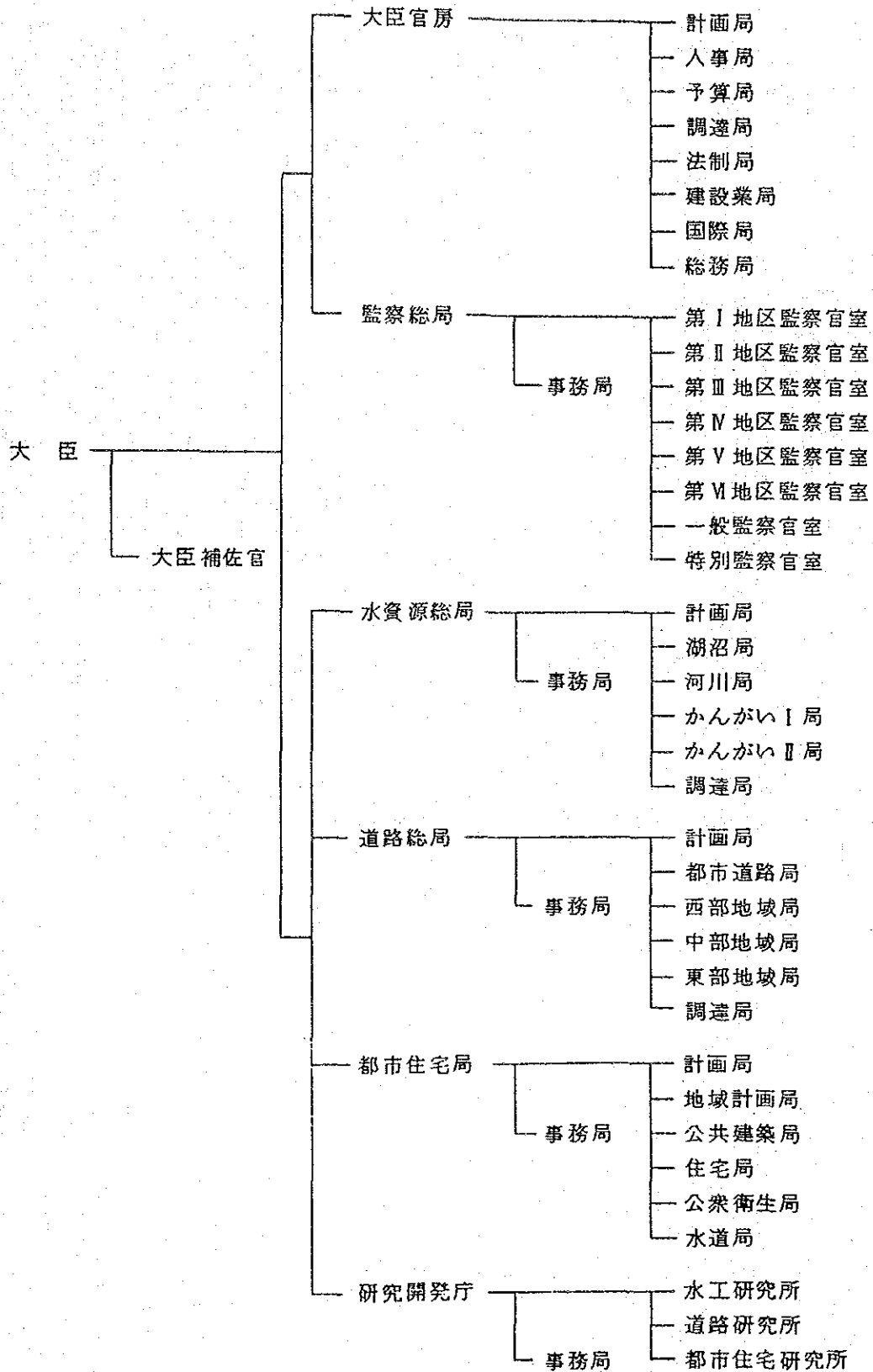
II. Evaluation of CGSO Performance

1. The result of Joint Committee meeting will be concluded after the Joint Committee Meeting.
2. The future of CGSO and Joint Committee Meeting will be discussed on the coming Joint Committee Meeting.

/ Jakarta, 14 March 1988.
mu

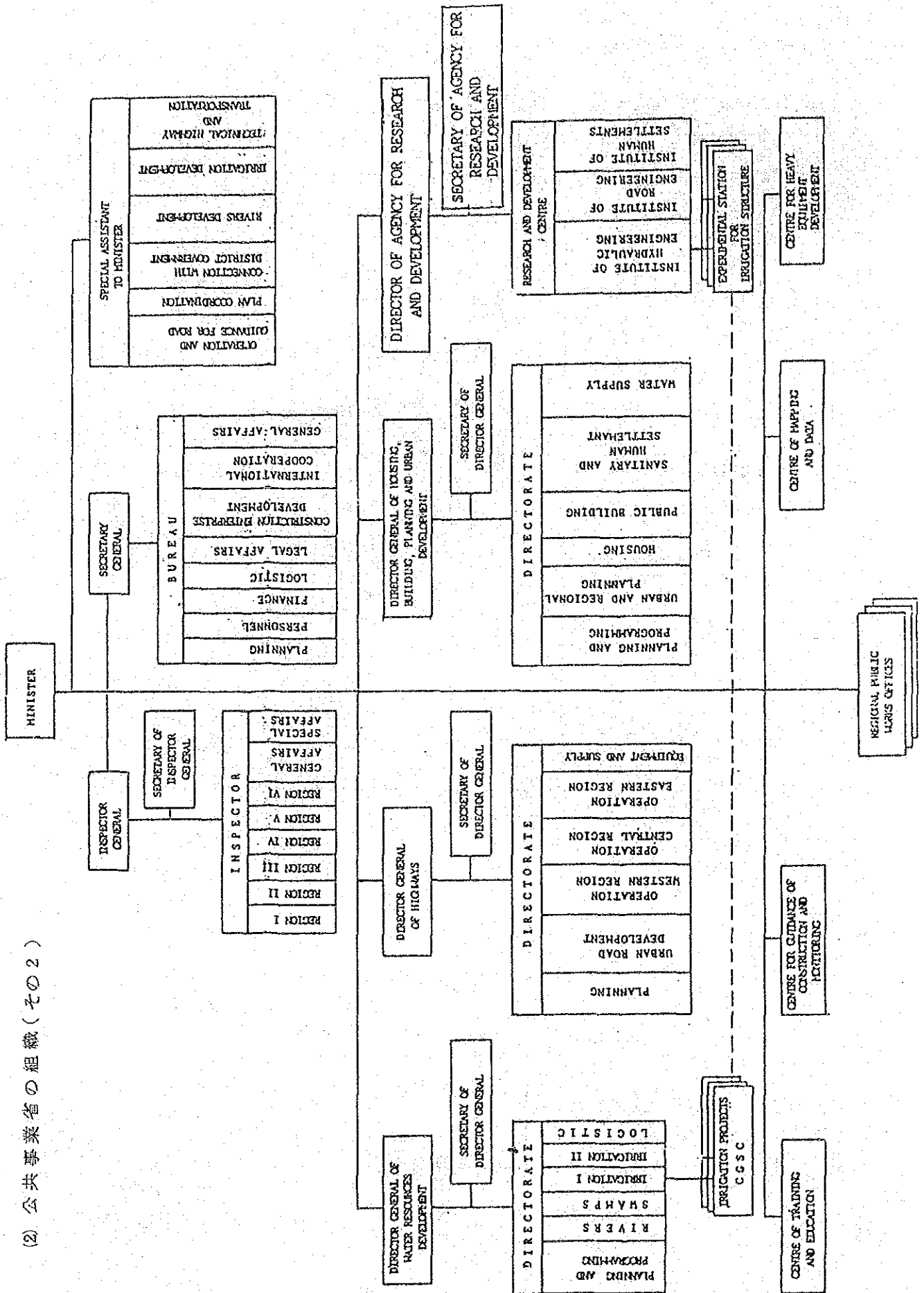
---ooo000ooo---

(1) 公共事業省の組織(その1)



THE MINISTRY OF PUBLIC WORKS ORGANIZATION CHART
 (BASED ON THE PRESIDENTIAL DECREE NO. J 211 1984)

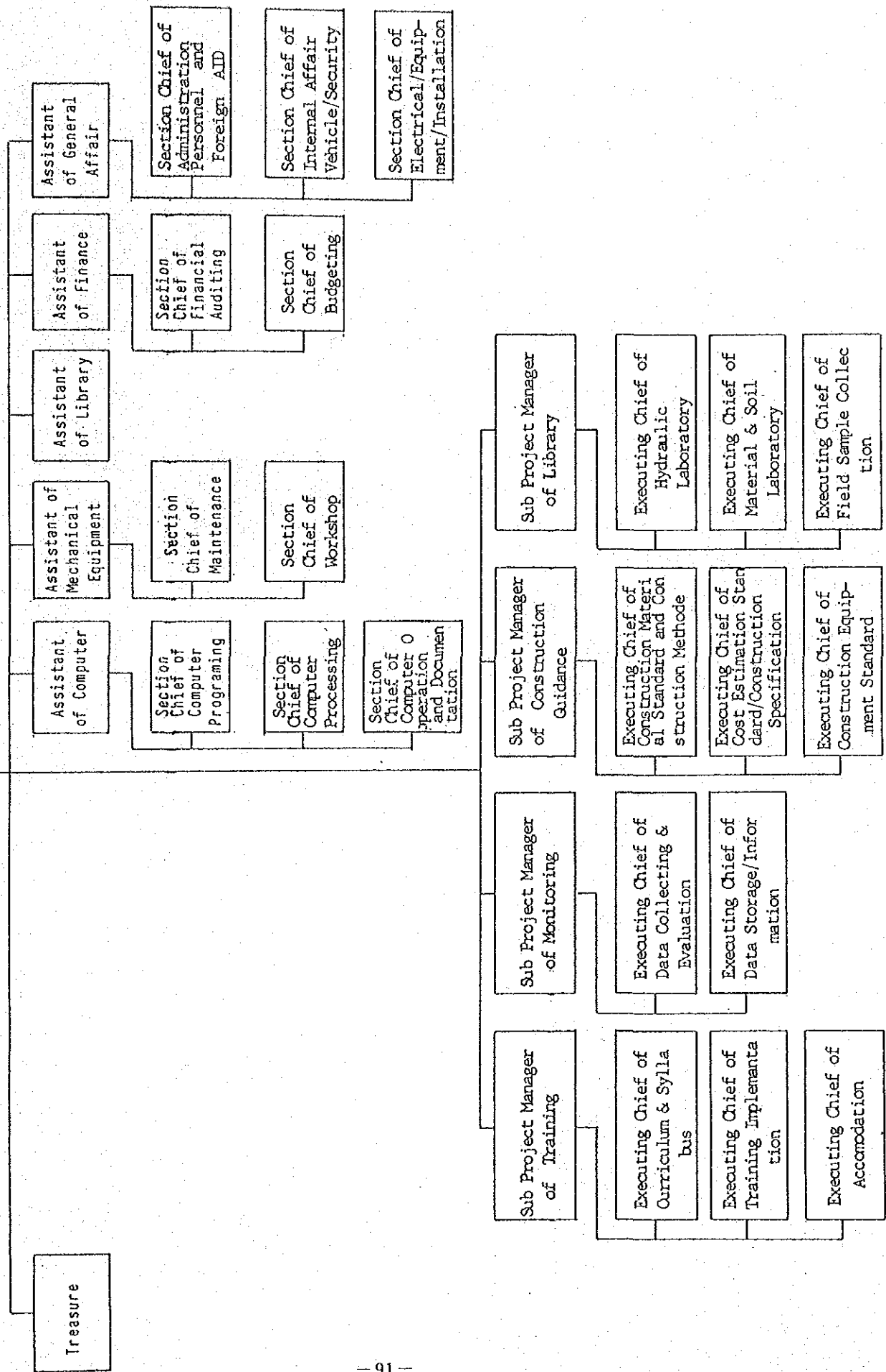
(2) 公共事業省の組織(その2)



(3) CGSC の組織図

As of March 1, 1988

DAFTAR LAMPIRAN : KEPUTUSAN PEMIMPIN PROYEK
 PENDIDIKAN UNTUK PEMBINAAN
 DAN MONITORING PELAKSANAAN
 NOMOR : 18/KPTS/PINPRO/AI-48/1985
 Tanggal : 9 Juli 1985



資 料 一 4

予 算 資 料

(1) CGSC 運営経費 (J I C A 支援・ローカルコスト)

項目	年度		1981	1982	1983	1984	1985	1986	1987	Total	Remarks
I J I C A 支援経費											
1) ローカルコスト負担	Rp		2,544,157	7,440,767	18,005,940	43,654,695	32,178,545	51,596,500	71,078,200	293,465,707	Rp
2) トレニング				5,225,040	5,500,032	36,808,150	57,624,000	40,945,077	374,050,000	280,032,947	
・中堅技術者養成対策費											
・T C D C											
計			2,544,157	12,665,807	73,006,260	80,462,845	89,802,545	92,541,577	1,084,832,000	573,498,654	
II CGSCローカルコスト											
1) Project コスト (D O I)	Rp		1,840,000,000	465,000,000	395,456,000	475,092,000	362,500,000	344,907,000	240,000,000		
2) Routine コスト (研究開発費)			*	*	*	*	*	135,700,000	130,800,000		
計			1,840,000,000	465,000,000	395,456,000	475,092,000	362,500,000	480,607,000	370,800,000		

(2) 中堅技術者養成対策費及びT C D C 支援費

項目	年度	1981	1982	1983	1984	1985	1986	1987	Total	Remarks
1) 中堅技術者養成対策費										
予 算 額 (円)			10,052,000	14,347,000	10,954,000	7,989,000				
・ 実 費 額 (Rp)			52,250,400	55,000,320	36,808,150	34,700,000	20,500,000	17,600,000	216,858,870	
1 研 修 参 加 旅 費			5,352,150	14,511,200	7,851,250	10,732,600	8,840,400	7,131,200		
2 教 材 費			42,092,250	28,007,836	35,040,000	19,910,300	6,346,600			
3 実 習 旅 費			600,000	*	352,000	*	5,168,000	2304,000		
4 研 修 資 材 費			2,652,000	4,556,750	21,300,900	1,291,100	*			
5 教 師 旅 費			1,554,000	60,550,334	1,419,000	1,368,000	*			
6 謝 金				380,000	2,381,000	1,398,000	1,450,000			
7 特 別 研 修				1,489,000						
・ 繰 越 額 (Rp)					*(12,193,000)	*(12,193,000)			121,930,000	
2 教 材 費						10,157,000				
3 教 師 旅 費						912,000				
4 研 修 資 材 費						924,000				
5 謝 金						200,000				
T C D C							\$ 125,43			
実 施 額 \$							* 20,445,077			
C G S C (Rp)						* 10,731,000		* 19,805,000	509,810,77	
Total Rp			52,250,400	55,000,320	36,808,150	57,624,000	40,945,077	37,405,000	280,032,947	

(3) ローカルコスト負担

(JICA Supporting Budget)

費目	年度	1981	1982	1983	1984	1985	1986	1987	Total	Remarks
1 現地業務費	¥	2,198,000	4,380,000	31,200,000	3,240,000	3,360,000	3,360,000	2,016,000	21,674,000	(198) 1円=11.7Rp
	\$							14,102.73\$		
2 貧困対策費	Rp	2,544,157	11,907,670	12,698,775	14,543,345	17,038,605	29,065,000	23,587,200	111,384,752	(1987年度)
	\$	*	*	1,260,000	1,512,000	1,569,000	1,560,000	1,560,000	7,452,000	
3 臨時現地業務費	¥	*	*	5,307,165	6,730,965	7,182,940	10,774,000	18,252,000	48,247,070	5,881,850 6,600,000 3,150,000 5,806,000
	Rp	*	*		3,461,425	*	*	*21,439,000	24,909,425	
4 モジュール整備事業	¥	*	2,500,000	*	*	*	*	*	250,000	*21,439,000 Rp
	Rp	*	62,500,000	*	*	*	*	*	62,500,000	
5 応急対策工事費	¥	*	*	*	244,100	*	*	*	244,100	*21,439,000
	Rp	*	*	*	1,050,000	*	*	*	1,050,000	
6 技術公報普及費	¥	*	*	*	977,000	731,000		671,000		*21,439,000
	Rp	*	*	*	4,200,000	3,448,000	5,500,000	7,800,000	20,948,000	
7 現地語教科書作成費	¥	*	*	*	981,000	956,000		*		*21,439,000
	Rp	*	*	*	4,218,960	4,509,000	6,237,500	*	14,965,460	
Total	Rp	2,544,157	74,407,670	180,059,940	43,654,695	321,785,445	51,596,500	71,078,200	293,495,707	

(4) CGSCローカルコスト

Item	Year	1981	1982	1983	1984	1985	1986	1987	Total
I Project Cost									
Payment & Salary				91,975,000	118,150,000	106,198,750	100,385,000	89,695,000	506,403,750
Materials				55,800,000	68,904,000	34,340,000	39,000,000	20,375,000	218,419,000
Equipment				15,750,000	14,250,000	400,000	—	480,000,000	820,000,000
Travel Allowance				31,144,000	33,900,000	28,400,000	19,907,000	9,540,000	122,891,000
Construction				25,950,000	46,800,000	6,200,000	30,000,000	60,000,000	114,950,000
Others				174,837,000	193,088,000	183,361,250	155,615,000	66,390,000	773,291,250
II Routine cost		*	*	*	*	*	135,700,000	130,800,000	266,500,000
Total		184,000,000*	465,000,000*	395,456,000	475,092,000	362,500,000	480,607,000	370,800,000	

For preparatory works

1979 - 1980 880,000,000

1980 - 1981 1,220,000,000

資 料 一 5

專 門 家 派 遣 實 績

1-2 LONG TERM Experts (1961.4 - 1998.3)

I T E M	1981.4-1982.3	1982.4-1983.3	1983.4-1984.3	1984.4-1985.3	1985.4-1986.3	1986.4-1987.3	1987.4-1988.3
1. EXPERTS (Long-term assignment)							
1. Team Leader	1981.10	Mr. Iahizaka					
2. Expert for cost Estimation, Operation and Supervision	1981.10	Mr. Matsumoto	1984.11	Mr. Sakaguchi			
3. Expert for Computer	1982.10	Mr. Mizoguchi					
4. Expert for Design, Hydraulics and Dynamics	1982.7						
5. Expert for Soil, Concrete and Asphalt Test	1982.5	Mr. Ohki					
6. Liaison Officer	1982.4	Mr. Okubo					
	1981.10						
		Mr. Suzuki					
		1986.6 Mr. Imayoshi					
		Mr. Imai					
		Mr. Ohki					
		Mr. Okubo					
		Mr. Taguchi					

tentative schedule :
 achievement and
 executing assignment :

2. SHORT TERM EXPERT

NO	ASSIGNMENT	EXPERT	P E R I O D						M/M	REMARKS
			FROM			TO				
1	Supervision	KENJI SEKIO	JUL	28	1982	DEC	27	1982	5,0	
2	Construction-Machinery	TOSHIA TAKAHASHI	NOV	1	1983	MAR	10	1983	2,0	
3	Pump & Gate	TAKASHI NAGAO	NOV	1	1983	MAR	10	1983	2,0	
4	Micro Photo	MASATOMI AOYAGI	FEB	8	1983	APR	8	1983	2,0	
5	Monitoring	SEIICHI OKU	MAR	8	1983	JUN	7	1983	2,0	
6	Test Equipment	KIKUJI KUNUGISE	MAY	25	1983	JUN	7	1983	0,4	
7	- " -	KATSUYOSHI KUMAKI	MAY	25	1983	JUN	7	1983	0,4	
8	Hydraulic Fou- liment	HIDEO FUKAZU	MAY	25	1983	JUN	14	1983	0,7	
9	Monitoring	SEIICHI OKU	OCT	19	1983	FEB	15	1984	4,0	
10	Micro - Photo	MASATOMI AOYAGI	OCT	19	1983	FEB	15	1984	4,0	
11	Technical Informa- tion Service	HIDEAKI SEKIOKA	FEB	8	1984	MAR	26	1984	1,5	
	(TIS)	YOSHIIHISA TSUDA	FEB	8	1984	MAR	26	1984	1,5	
13	Micro - Photo	MASATOMI AOYAGI	JUL	11	1984	AUG	29	1984	1,6	
14	Machinery and Electricity	MASAHIRO FUKAMI	JUL	11	1984	SEP	10	1984	2,0	
15	Training Plan	AKIEIKO YASUDA	SEP	5	1984	OCT	12	1984	1,2	
16	Computer	HAJIME HORMA	SEP	17	1984	SEP	29	1984	0,4	
17	- " -	TOKIYOSHI YOKIYAMA	SEP	24	1984	NOV	23	1984	1,0	
18	TIS	KEIICHI TSUJI	OCT	17	1984	DEC	16	1984	2,0	
19	Test Equipment	KIKUJI KUNUGISE	MAR	25	1985	APR	6	1985	0,4	
20	- " -	HISAHIDE TAKAYAMA	MAR	25	1985	APR	6	1985	0,4	
21	- " -	YASUJIRO MIYAMA	MAR	25	1985	APR	6	1985	0,4	
22	TIS	HIDETO TATSUJIMA	AUG	9	1985	OCT	8	1985	2,0	
23	Test Equipment	KATSUYOSHI KUMAKI	AUG	28	1985	SEP	15	1985	0,6	
24	Training Plan	YUKINORI TSUDA	SEP	14	1985	OCT	13	1985	1,0	
25	- " -	AKIEIKO YASUDA	OCT	3	1985	OCT	13	1985	0,3	
26	Hydraulic Ana- lysis	RYOICHI ONISHI	OCT	18	1985	DEC	27	1985	0,4	
27	- " -	TATSUO NAKA	OCT	18	1985	DEC	15	1985	1,3	
28	Construction Manag. Criteria	MASAO MORIKAWA	FEB	13	1986	FEB	28	1986	0,5	
29	Pump Installa- tion	TETSUO KANDA	FEB	17	1986	MAR	15	1986	1,0	
30	- " -	TADAYUKI YAMAMOTO	MAR	3	1986	MAR	14	1986	0,5	
31	Canal Design	HIROSHI KOBAYASHI	JUL	22	1986	AUG	21	1986	1,0	
32	Manual (Book)	HISATSUGU TOYODA	SEP	16	1986	MAR	15	1987	6,0	
33	O & M of Head- Works and Pump	YOSHIHARU KOBAYASHI	OCT	6	1986	NOV	5	1986	1,0	
34	Hydraulic Anal.	TATSUO NAKA	OCT	30	1986	DEC	8	1986	1,3	
35	Dam Design	TADANORI KAWAGUCHI	NOV	6	1986	DEC	3	1986	0,9	
36	Geotechnic Engi- neering	TAMATSU FURUYA	NOV	28	1986	DEC	21	1986	0,8	
37	Dam Foundation	YOSHIMASA NOMIKURA	MAR	18	1987	APR	3	1987	0,6	

資 料 一 6

研 修 員 受 入 実 績

Fiscal year	Laboratory	Training	Monitoring	Computer	Standardization	Technical Information	Management	Machinery and Electric
1981/ 1982					Lukman Ridwan BIE Tjuk Sutono, BIE Subanda, BIE			
1982/ 1983	Subari, BE			Ir. Suwardi, Dip. HE			Hendra Budi- man, SH	Ir. Satar Yu- suf
1983/ 1984	S. Parno, BE			Ir. Damar- Susilowati				Pantas Hutaga- lung, BME
1984/ 1985	Sulkanatim, BE	Ir. Kaman, Moch. Ma'mun	Dr. A. Haliied A. Gany					Rachmat Dim- yati, BEE
1985/ 1986	Sabirin Cha- niago, BIE Ir. Rafnila- Affan	Drs. Kamran Erang Ir. Kawan Moch. Ma'mun (TCDC)					Dr. A. Hafii- ed A. Gany Ir. Gatot- Sunaryo	
1986/ 1987		Drs. Damrah Djamal	Ir. Kunhari Hadiyati (TCDC)			Dra. Sukarni		
1987/ 1988			Wintang Ang- raeni, SH.		Ir. Pipin- Chrisvinus Sitohang		Ir. Bambang Waluyono Drs. Suyan- to	

資 料 一 7

機材供与実績(フォローアップ期間)

Supplied Equipment for CGSC Project
in 1986/1987

1. Technical Information

No	Name of Equipment	Specification	Unit
1	1. Reader Printer	Fuji Micro film Reader Printer FMRP 30 AU	1 unit
	2. Facsimile	Fuji Xerox 7020 Telecopier (Plain paper & half tone)	2 units

2. Standardization

No	Name of Equipment	Specification	Unit
1	Electronic Distance Meter	PENTAX PM-81 Infrared	1 unit
2	Theodolite & Level with Tripot :		
	a. Theodolite	PENTAX TH. 20.D Precision	1 unit
	b. Level	NIKON AL.M4L Automatic	1 unit
3	Camera and accessories	MINOLTA 7000 Auto-Focus with close up lens	2 units
4	Drafter	MUTOH REY-12G complete with Board, Stand, lamp, Chair	1 unit
5	Lettering Set	STAEDLER 700. S3. 19	6 units
6	Blueprint Copy Machine	METEOR SIEGEN METEM-81	1 unit
7	Electric Portable Typewriter	CANON TYPESTAR 7 with case	2 units
8	Electronic Calculator	CASIO FX-180.P Scientific	6 units
9	Business Computer	NEC Type APJ-III: Total set US\$ 7,860-Rp8,885,000 at exchange rate US\$1=Rp1,130,-	1 unit
10	Filing Capboard	ELITE 438 Sliding Glass Doors	2 units
11	Filing Cabinet	ELITEE 444 with 4 drawers	2 units
12	Mobile Storage System	ELITEE MF-90-4B-6-R	1 unit
13	Linear Measuring Tape	FUJIMA: Roll Tape @ 50 m	1 unit
		Roll Tape @ 100	1 unit
14	Electric Cable	CABELINDO NYAS, 3 X 2.5/220V & 300V in roll @ 25 metres	2 rolls

3. Computer

No	Name of Equipment	Specification	Unit
1	Consumables a. Magnetic Tape b. Computer Binder c. Continuous Form : - File Lay-out - Report Lay-out - Flow chart - Variable list - Program Description - Screen Lay-out - DCL Macro	BASF 6.250 BPI/2400 ft LIHIT 1309	50 reel 100 pcs 1000 pcs 1000 " 1000 " 1000 " 1000 " 1000 " 1000 "

4. Laboratory

No	Name of Equipment	Specification	Unit
1	Maintenance Apparatus for consolidometer a. Oziroscope b. Standard volt Ampere generator c. Digital Multimeter d. Insulation Resistance meter e. DC/A/V meter f. AC/A/V meter g. DC Bridge h. Dial Resistor i. Digital Manometer j. Function Generator k. Freqwency Counter		1 set
2	Spare part for Consolidometer a. A/D & D/A b. CPU Board c. Timer d. 8 Ch D I/O e. CMOS - RAM		2 sets 1 set 1 set 1 set 1 set
3	Spare part for Compression Tester a. CPU Board b. 16 K ROM/RAM c. Velours Cupring d. DC Siervomotor e. Pressure Zenser		2 sets 1 set 5 pcs 5 sets 4 sets
4	Spareparts for Automatic Balance Device CF Loading Lever a. Power Relay b. Induction Motor		6 sets 3 units

Supplied Equipments to CGSC
in 1987/1988

1. Technical Information

	Name of equipment	Specification	Unit
1	Word Processor	Make : Olivetty (Italy) Model: EVT.300-ET.112 Electronic word processing system c/w Double (2) Floppy-Disk Drives and 12" Video display	
2	Micro Photo Camera (Spare part)	Fuji L 13	Lump sum
3	Micro Photo Reader (Spare lamp)	Fuji R 1824	10 units
4	Diazo duplicator 348	Make: "BRUNNING" (USA) Model: 348 (3 lamp), small diameter lamp	2 units
5	Chemical Material for Micro Photo	Make : "MINOLTA" (Japan) Model : 1. Sensitive Paper for Micro-Photo Equipment Model RO-407 Size: 297 X 115 mm Packing : roll	
6	Fire proof Micro film Cabinet	Make : "ITOH" (Japan) Model : CB-44DN Fire proof Cabinet with 4(four) Drawers Outside Dimension: H.1556 X w.552 X D. 790 mm Drawer Inside Dimension: H.300 X W.385 X D.640 mm weight:320 kg	2 units
7	Roll film cabinet (Micro file)		
8	Fiche film cabinet (Micro file)		

3. Computer

No	Name of equipment	Specification	Unit
1	Serial Printer		1 unit
2	Filing Cabinet	Make : "ELITE" (local) Model : 444 Four Drawers Steel Filing Cabinet Dimension: 1337(H) X 456(W) X 622 (D) mm c/w Suspension Rails Weight: 56 kg Color: ELITE Grey-Blue	1 unit
3	(1) Ribbon (2) Continuous form (3) Magnetic Tape (6250 BPI) (4) Pencil Termo Hydrograph (5) Paper Termo Hydrograph (6) Staples (7) Data file Kokuyo (8) King Jim File (9) King Jim File (10) LIHIT FILE (11) Data File KOKUYO	NEC, EF-1102 P 370, max, 20 60 gr 14.7/8 X 11" a 2000 pcs/box BASF CTA-244. 2400 ft/Sealbelt SATO NS-307 SATO NS-307-Weekly Pack/Roll MAX model HD-12.L Stapler c/w Staples 1217 FA-H/10 boxes Model:EF-151-S (Size 5 cm) Model 975 G-File A4.S/5 cm Model 973 G-File A4.S/3 cm Model 1307 Size 15" X 11" Model Hu-10 (Size 8 cm)	40 unit 50 25 2 1 1 50 50 50 50 50

4. Laboratory

No	Name of Equipment	Specification	Unit
1	Compaction Tester	JIS 1210 Hammer 1,5 Kg N-1 Mold O 15 cm N-2, Tanifuji TS-180, S-41, S-47	1 unit
2	Sample Extruder by hand	Tanifuji S 141 JIA A 1209	1 unit
3	Glass plate prong	Tanifuji S-29 JIS A 1209	3 unit
4	Sand Density Cone	Tanifuji 120 JIS A 124	2 unit
5	Le Catelier plask	Tanifuji C 11	6 unit
6	Compression Test by hand	Body weight 350 Kg, max 100 ton capacity Tanifuji TC-202, JIS a 1108	1 unit
7	Electric Oven	450 X 400 X 400 mm, Max. 200 degree C, Tanifuji TG-106 B	1 unit
8	Equipment for concrete Test	Sample pen 27 X 35 cm Tanifuji J-31	6 unit
9	Wind Velocity	Role, Cable 50 m, recorder KK Isuzu Seisha kusho No. 3-1390-01	1 unit
10	Sluce Gate	40 cm X 40 cm, for hydraulic model test (local made)	1 unit
11	Point Gaiqe meter		1 unit
12	Current meter	Sanko Seisemitsu Kogyo KK, Model SU-101-25 S Range 3 cm - 60 cm	1 unit

5. Equipment for Training

No	Name of Equipment	Specification	Unit
3	Water Cooler and Heater	Make : "AQUA" (or similar (local)) Model: Hot & Cold 5 gallon capacity (19-litre) Dispenser c/w Five (5) Plastic 19-litre Bottles filled with minimal water	1 unit
4	Electric Scientific Calculator with printer	Make : CASIO (Japan) Model: <u>a</u> FX-750 P calculator <u>b</u> FA-20 plotter-printer	1 unit
5	Whiteboard with Screen	Make : DAIICHI (Japan) Model: 120 X 240 cm single face Magnetic Whiteboard, standard wall model (without screen or legs)	1 unit
6	Battery for Video camera	Make : Sony (Japan) Model: NP 11 Battery pack 12 V / 1,5 Ah Betamovie	4 unit
7	Insect flash light and emergency	Make : 1. ASSEMBLY (local) 2. STARDUST (japan) Model: 1. 2 lamps <u>a</u> 15 watt anti insect lamp 2. SLF-909 circular fluorescent Emergency light 20 / 22 watt	

6. Equipment for Mecanical Training

No	Name of Equipment	Specification	Unit
2	Two Post list Machine & accessories	2,5 ton BANZAI	1 unit
3	Spare part for heavy equipment:		
	(1) Motor grader	Type CD 22 AG	1 unit
	1. Element Assy	600-181-9301	
	2. Catridge	600-211-5240	
	3. Element	101-60-15171	
	4. Catridge	600-211-8220	
	5. V. Belt	04120-21751	
	6. H o s e	07271-01460	
	7. H o s e	07271-C1445	
	8. P l u g	6130-22-5190	
	9. Rod Piston	236-63-11122	
	(2) Truck Loader Type 931 B :		1 unit
	1. Air Filter	4 N 326	
	2. Air Filter	4 N 313	
	3. Cab. Pressurizer	5 G 1913	
	4. Filter Assem	5 G 1827	
	5. Hydraulic Tank Element Assem	9 M 9740	
	6. Filter Bottom of case	8 S 9129	
	7. Screen Bottom of case	8 S 9130	
	8. V. Belt	8 N 2818	
	(3) Fork Lift Type FG 08-Komatsu :		1 unit
	1. V. Belt	FJ 809 110 220	
	2. Element Assy	FJ 212 326 0107	
	3. Strainer Fuel	358-04-11130	
	4. Flasher Unit	304-06-31920	
	5. Regulator Ass'y	FJ 42058-5500	
	6. Coil Ass'y	FJ 42047-1300	
	7. Spark Plug	FJ 420-544-900	
	8. Clut Dish Ass'y	358-10-11141	
	9. Piston Ass'y	304-43-00280	
	10. H o s e inlet	358-03-11330	
	11. H o s e Outlet	358-03-11340	

	<p>(4) Truck Crane type CM 80</p> <ol style="list-style-type: none"> 1. V. Belt 2. V. Belt 3. Fuel Filter 4. Oil Filter 5. Element Kit By pass 6. Air Filter 7. Hydraulic Crane Filter oil <p>(5) Hydraulic Breaker, HB700H (FURUKAWA)-KATOH (plat)</p> <ol style="list-style-type: none"> 1. Breaker Filter Added 2. R o d <ol style="list-style-type: none"> (a) Flat (b) Mail Point (c) Wedge Point 	<p>21140-25505</p> <p>21140-25060</p> <p>16444-Z 9000</p> <p>15208-Z 9025</p> <p>15274-Z 9025</p> <p>16546-99016</p> <p>366-701-00000</p>	<p>1 unit</p> <p>1 unit</p>
<p>6</p>	<p>Tools for General Inspection and Repair</p> <ol style="list-style-type: none"> 1. Caddy tool stand 2. Screw plate set 3. Valve Spring Mount Demount Tool set 4. Hole Saw 5. Sound Scope 6. Fuel Consumption meter 7. Diesel Timing Tacho meter 8. Air impact Wrench Air impact Wrench Single Offset Box Wrench (60°) 9. V i c e 10. Sling Chain 11. Dial Vernier Grinder 	<p>Model RC 101</p> <p>Model M 320</p> <p>Model DR 26401</p> <p>Size 12 mm-65 mm</p> <p>Model SS-1</p> <p>DE - FL</p> <p>DF 776 B</p> <p>AW 1600</p> <p>AW 4000 TB</p> <p>Model QML, 17,19,21,22,24,26,27,30</p> <p>UV. 150</p> <p>3 S- EE</p> <p>TBS - 115</p>	<p>1 unit</p>

7. Common Equipment

No	Name of Equipment	Specification	Unit
3	Electric Typewriter	Royal type 7CO D, Alpha	1 unit
4	Electric Calculator	116 PD 12	1 unit
5	Overload Relay for Freezer	Type H 9 A	6 units
6	Sylinder Kit	Type 5199821, DG 400 KVA, Detroit	2 units
7	Element Fuel Oil	Type 554980, DG 400 KVA, Detroit	3 units
8	Switch Delcoremy	Type 1484, DG 400 KVA, Detroit	2 units
9	Moment Wrench	Bristol EVT 1200 A	1 unit
10	Multi Tester	3208 Hioki	2 units
11	Vacum Cleaner	National 220V/190W	1 unit
12	Hydraulic Press Cable	Kanekura, type 325 14-325 mm	1 unit
13	Exhaus Fan Wall	60 W/ 200V, National	2 units
14	Overhault Kit	Type 5195078, DG 400 KVA, Detroit	6 units
15	Pressure Gauge	Imperial Easmen, D-250, P8o/ 0-500	2 units
16	Electric Drill	450W/220V Model, 601C Makita	1 unit
17	Electric Grinde	Riobin Japan	1 unit

資 料 一 8

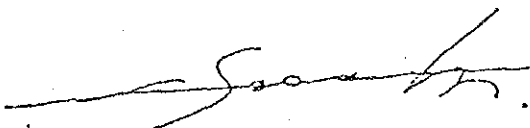
R/D (Followup Cooperation)

THE RECORD OF DISCUSSIONS
O N
EXTENSION OF THE PERIOD OF THE TECHNICAL COOPERATION
F O R
THE CONSTRUCTION GUIDANCE SERVICE CENTER PROJECT

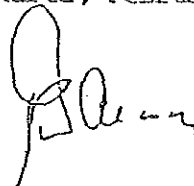
The Japan International Cooperation Agency (hereinafter referred to as "JICA"), with regard to the recommendations made by the Japanese and Indonesian Joint Evaluation Team which conducted the assessment of the technical cooperation for the Construction Guidance Service Center Project (hereinafter referred to as "the Project") from October 29 to November 9, 1985, had a series of discussions, through Mr. Masayoshi Enomoto, the Acting Resident Representative of JICA in Jakarta, with the authorities concerned of the Government of the Republic of Indonesia, concerning the extension of the period of the technical cooperation for the Project which is underway based on the Record of Discussions (hereinafter referred to as "R/D") signed in Jakarta on February 19, 1981, and will be terminated on March 31, 1986.

As a result of the discussions, both parties agreed to recommend to their respective Governments to make necessary amendments to the "ANNEX II" of R/D as "AMENDED ANNEX II" attached hereto and to carry out a follow-up cooperation and therefore to extend the period of the technical cooperation on the basis of the amended R/D, until March 31, 1988 in order to attain the anticipated objectives of the Project.

Jakarta, February 15, 1986



Masayoshi Enomoto
Acting Resident Representative
of JICA in Jakarta



Ir. Y. Sudaryoko
Director General of
Water Resources Development
Ministry of Public Works.

AMENDED ANNEX II

JAPANESE EXPERTS

1. Long-term Experts

- (1) Team Leader 1
- (2) Irrigation Engineers 3
 - (a) Cost Estimation, Operation and Supervision
 - (b) Computering
 - (c) Soil, Concrete and Asphalt Test
- (3) Liaison Officer 1

2. Short-term experts may be dispatched when necessity arises, for the smooth implementation of the Project.

1. JAPANESE ASSISTANCE

I T E M	R / D T E R M						E X T E N S I O N T E R M	T O T A L
	1981.4-1982.3	1982.4-1983.3	1983.4 - 1984.3	1984.4 - 1985.3	1985.4-1986.3	1986.4-1987.3		
I. EXPERT (Long-term - Assignment) 1. Team Leader	←							
2. Irrigation Engineer	←							
a. Cost Estimation								
Operation & Supervision								
b. Computer								
c. Design, Hydraulics & Dynamics								
d. Soil Concrete & Asphalt Test								
3. Liaison Officer								
II. EXPERT (Short term - Assignment) 1. Dam Engineering							(Several Man. months)	(Several Man. months)
2. Geology								
3. Soil								
4. Hydraulics								
5. Others				Several manmonths				
III. MACHINERY & EQUIPMENT								
IV. TRAINING ACCEPTANCE								
V. ESTABLISHMENT OF TRAINING GROUND								
VI. TRAINING BUDGET SUPPORTING								
VII. DISPATCH OF JICA MIS-SION								If Necessary

IMPLEMENTATION SCHEDULE FOR EXTENSION TERM

ACTIVITIES	R/D TERM	EXTENSION TERM	REMARKS
	1981.4/1986.3	1986 / 1987	
I. Monitoring 1. System development a. Financial Progress b. Physical Progress c. Personnel Management 2. Monitoring of Overall Performance of irrigation scheme a. Inventory of Irrigation system under DOI b. Project ledger	Development	Actual operation and improvement of system	Computer use and for on going Irrigation Project
		Actual operation and improvement of system Apply and improvement	Computer system
		Arrangement and discussion of basic concept	Compilation of data on overall irrigation feature
3. Monitoring of country data on irrigation works II. Technical Information Service. 1. Development of system a. Microfilming system b. Retrieval system	Development	Actual operation and improvement of system	Computer system
		Publication	Publication
		Installation	Extention
2. Periodical Publication of Technical Service 3. Installation of facsimile	Publication	Publication	Publication
		Extention	Extention
		Supplementary works	Publication
III. Standardization 1. Diffusion of existing standard and manual 2. Arrangement of model of standards and manuals a. Specification b. Construction Control c. Contract document d. Cost estimation e. Standardization of O & M for facility	Arrangement of model	Modification and Application	Publication
		ditto	Extention
		ditto	Supplementary works
		ditto	Modification and Application
		ditto	ditto

IMPLEMENTATION SCHEDULE FOR EXTENSION TERM

ACTIVITIES	R/D TERM	EXTENSION TERM		REMARKS
	1981.4/1986.3	1986 / 1987	1987 / 1988	
IV. Computer Service 1. Training for computer use and setting up a rule for Computer in CGSC 2. Development of application programme 3. Maintenance of application programs	Staff training O & M of Computer Development Payroll Training evaluation	Technical calculation program- ming & system analysis Improvement Other Programmes	1987 / 1988	Monitoring systems, cost estimation. Data indexing, Technical calculations
V. Laboratory Test 1. Material test operation a. Laboratory test b. Field test	Soil, Concrete Asphalt Soil, Concrete Soil, Concrete	Asphalt Asphalt Soil (field test), Asphalt		Including text books for training
2. Compiling of Operation manual for material test 3. Compiling of construction manual	Data Collection	Earth work	Concrete work Asphalt work & Others	
VI. Hydraulic Experiment 1. Fundamental study for hydraulic experiment	Indoor and outdoor hydraulic experiment			Hydraulic measurement of flow in open channel, pipeline, orifice, pump, seepage flow and various factors on water flow Model test and observation of irrigation structure
2. Application study of hydraulics a. Mathematical model simulation on unsteady flow in irrigation canal b. Hydraulics of river c. Method of water head distribution in open canal	Model simulation on and exercise Lecture	Application to existing canal Field observation	Lecture	Computer analyzing method

IMPLEMENTATION SCHEDULE FOR EXTENSION TERM

ACTIVITIES	R/D TERM	EXTENSION TERM		REMARKS
		1986 / 1987	1987 / 1988	
VII. Training	1981.4/1986.3			
1. Periodical training	11. Junior Courses 5. Senior Courses	Continuation Ditto	Continuation Ditto	
2. Special course for staff	Microfilming Mechanics Computer use			
3. Training Planning	Data Collection & Study Training evaluation			

JICA