

APPENDICES -1

Member List of The Study Team

(1) Members for Field Survey

Name	Work Assignment	Current Position
Mr. Motoyuki Uegaki	Leader	Deputy Director, Office of Technical Coordination and Examination, Grant Aid Management Department, JICA
Mr. Masaaki Ueda	Project Manager/ Programming Editing Planner	Yachiyo Engineering Co., Ltd.
Mr. Kiyofusa Tanaka	Broadcasting Programming Equipment Planner I	-ditto-
Mr. Takashi Kato	Broadcasting Programming Equipment Planner II	-ditto-
Mr. Toshikazu Hattori	Cost Estimation/ Procurement Planner	-ditto-
Mr. Tatsuya Kobayashi	Coordinator	-ditto-

(2) Members for Explanation of Draft Final Report

Name	Work Assignment	Current Position
Mr. Katutoshi Komorii	Leader	Third Project Management Division, Grant Aid Management Department, JICA
Mr. Masaaki Ueda	Project Manager/ Programming Editing Planner	Yachiyo Engineering Co., Ltd.
Mr. Kiyofusa Tanaka	Broadcasting Programming Equipment Planner I	-ditto-
Mr. Toshikazu Hattori	Cost Estimation/ Procurement Planner	-ditto-
Mr. Masatsugu Komiya	Broadcasting Programming Equipment Planner II	-ditto-
Mr. Hisayuki Yamamoto	Structural Engineer	-ditto-

APPENDICES –2

Study Schedule

(1) Itinerary of the Field Survey

No.	Day	Date	JICA Official	Consultant					
			Mr. Uegaki (Leader)	Mr. Ueda (Chief Consultant)	Mr. Tanaka	Mr. Kato	Mr. Hattori	Mr. Kobayashi	
1	30 Mar.2003	Sun		NRT—JKT	NRT—JKT	NRT—JKT		NRT—JKT	
2	31 Mar.2003	Mon		Meeting with JICA JKT Office Visit to TVRI JKT for Itinerary	The same as the left	The same as the left		The same as the left	
3	1 Apr.2003	Tue		Meeting with TVRI JKT JKT-UPG (Makassar)	The same as the left	The same as the left		The same as the left	
4	2 Apr.2003	Wed		Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey		Meeting with TVRI Makassar/site survey	
5	3 Apr.2003	Thu		Ditto	Ditto	Ditto		Ditto	
6	4 Apr.2003	Fri		Ditto	Ditto	Ditto		Ditto	
7	5 Apr.2003	Sat		Ditto	Ditto	Ditto		Ditto	
8	6 Apr.2003	Sun							
9	7 Apr.2003	Mon		Ditto	Ditto	Ditto		Meeting with TVRI Makassar/site survey	
10	8 Apr.2003	Tue		Ditto	Ditto	Ditto	NRT—JKT	Ditto	
11	9 Apr.2003	Wed	NRT—JKT	UPG—JKT	Ditto	Ditto	Ditto	Internal Meeting	Ditto
12	10 Apr.2003	Thu	Meeting with JICA JKT Office Courtesy call to EOJ, BMUN, (Finance)	The same as the left	Ditto	Ditto	Ditto	Meeting with JICA JKT Office Courtesy call to EOJ, BMUN, (Finance)	Ditto
13	11 Apr.2003	Fri	Meeting with TVRI JKT	The same as the left	Ditto	Ditto	Meeting with TVRI Makassar/site survey	Ditto	
14	12 Apr.2003	Sat	Internal Meeting	The same as the left		UPG—JKT—NRT			
15	13 Apr.2003	Sun	JKT—UPG	JKT—UPG		(Arrive at NRT)	JKT—UPG		
16	14 Apr.2003	Mon	Meeting with TVRI Makassar	Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey		Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey	
17	15 Apr.2003	Tue	Ditto	Ditto	Ditto		Ditto	Ditto	
18	16 Apr.2003	Wed	UPG—JKT Meeting with BMUN and TVRI for M/D	UPG—JKT Meeting with BMUN and TVRI for M/D	Ditto		Ditto	Ditto	
19	17 Apr.2003	Thu	Singing M/D by BMUN/TVRI	The same as the left	Ditto		Ditto	Ditto	
20	18 Apr.2003	Fri	Report to EOJ, JICA, BMUN, (Finance)	The same as the left	Ditto		Ditto	Ditto	
21	19 Apr.2003	Sat	JKT—NRT (Arrive at NRT)	JKT—UPG					
22	20 Apr.2003	Sun							
23	21 Apr.2003	Mon		Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey		Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey	
24	22 Apr.2003	Tue		Ditto	Ditto		Ditto	Ditto	
25	23 Apr.2003	Wed		Ditto	Ditto	NRT—JKT	Ditto	Ditto	
26	24 Apr.2003	Thu		UPG—JKT Meeting with TVRI	UPG—JKT Meeting with TVRI	Meeting with TVRI	UPG—JKT Meeting with TVRI	Ditto	
27	25 Apr.2003	Fri		Report to JICA JKT Office JKT—NRT	Report to JICA JKT Office JKT—NRT	Report to JICA JKT Office JKT—UPG	Report to JICA JKT Office JKT—UPG	Ditto	
28	26 Apr.2003	Sat		(Arrive at NRT)	(Arrive at NRT)				
29	27 Apr.2003	Sun							
30	28 Apr.2003	Mon				Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey	Meeting with TVRI Makassar/site survey	
31	29 Apr.2003	Tue				Ditto	Ditto	Ditto	
32	30 Apr.2003	Wed				UPG—JKT JKT—JOG	UPG—JKT JKT—JOG	UPG—JKT JKT—JOG	
33	1999/4/30	Thu				Visit to MMTC UPG—JKT	Visit to MMTC UPG—JKT	Visit to MMTC UPG—JKT	
34	1999/5/1	Fri				Report to TVRI JKT Report to JICA JKT Office	Report to TVRI JKT Report to JICA JKT Office	Report to TVRI JKT Report to JICA JKT Office	
35	1999/5/2	Sat				Internal Meeting	Internal Meeting	Internal Meeting	
36	1999/5/3	Sun				JKT—NRT	JKT—NRT	JKT—NRT	
37	1999/5/4	Mon				(Arrive at NRT)	(Arrive at NRT)	(Arrive at NRT)	

A2-1

: Date of movement

NRT: Narita, JKT: Jakarta, UPG: Ujung Pandang (Makassar)

(2) Itinerary of Explanation for the Draft Report

A2-2

Date and Time			Activities							Accommodation (JICA Member)
			JICA Member	Consultants						
			(Mr. KOMORI)	Mr.UEDA	Mr.KOMIYA	Mr.TANAKA	Mr.HATTORI	Mr.YAMAMOTO		
1	1999/7/5	SUN	NRT(11:05)—JKT(16:30) JL715	-ditto-	-ditto-	-ditto-	-ditto-			JKT
2	1999/7/6	MON	Meeting with JICA Indonesia Office, Courtesy Call to EOJ, BUMN and TVRI HQ	-ditto-	-ditto-	-ditto-	-ditto-			Makassar
			JKT(18:35)-UPG(21:45) GA634	-ditto-	-ditto-	-ditto-	-ditto-			
3	1999/7/7	TUE	Meeting with TVRI Makassar	-ditto-	-ditto-	-ditto-	-ditto-			JKT
4	1999/7/8	WED	UPG(08:00)-JKT(09:10) GA631	-ditto-	-ditto-	-ditto-	-ditto-			JKT
			Meeting with TVRI HQ	-ditto-	-ditto-	-ditto-	-ditto-			
5	1999/7/9	THU	Discussion on the draft of Minutes of Discussion (M/D) with TVRI HQ	-ditto-	-ditto-	-ditto-	-ditto-	1	NRT(11:05)—JKT(16:30) JL715	JKT
6	1999/7/10	FRI	Signing on the M/D with TVRI HQ, Report to EOJ ,JICA Indonesia Office and BUMN	-ditto-	-ditto-	-ditto-	-ditto-	2	-ditto-	
			JKT(23:55)-NRT(09:10+1) JL716							
7	1999/7/11	SAT	(Arrive at NRT on 09:10)	Internal Meeting	Internal Meeting	Internal Meeting	Internal Meeting	3	Internal Meeting	
8	1999/7/12	SUN		Document works	Document works	Document works	Document works	4	Document works	
9	1999/7/13	MON		Visit BAPPENAS, BUMN and Depkeu		Visit TVRI HQ JKT(13:00)-UPG(16:10)GA632		5	Visit TVRI HQ JKT(13:00)-UPG(16:10) GA632	
10	1999/7/14	TUE		Visit BAPPENAS, BUMN and Depkeu JKT(23:55)-NRT(09:10+1) JL-716		Suvey works at TVRI Makassar UPG(16:15)-JKT(17:25)GA603 JKT(23:55)-NRT(09:10+1) JL-716		6	Survey works at TVRI Makassar and Planning Reinforcement (if necessary) for Studio No.2	
11	1999/7/15	WED		(Arrive at NRT)	(Arrive at NRT)	(Arrive at NRT)	(Arrive at NRT)	7	-ditto-	
12	1999/7/16	THU						8	-ditto- UPG(16:15)-JKT(17.25) GA603	
13	1999/7/17	FRI						9	Report Survey results to TVRI HQ	
14	1999/7/18	SAT						10	JKT(23:55)-NRT(09:10+1)	
15	1999/7/19	SAN						11	(Arrive at NRT)	

Legend: NRT (Narita), JKT (Jakarta), UPG (Ujung Pandang), BUMN (Ministry of State-Owned Enterprises/ Kantor Menteri Negara Badan Usaha Milik Negara)
 TVRI (Television of Republic Indonesia) , BAPPENAS(National Development Planning Agency/Badan Perencanaan Pembangunan Nasional)
 Depukeu (Financial Department/ Departemen Keuangan)

APPENDICES –3

List of Parties Concerned in the Recipient Country

List of Parties Concerned in the Recipient Country

TVRI (Television of the Republic of Indonesia)

Ms. Sumita Tobing Ph.D.	Former President Director
Mr. Achmad S Adiwidjaja. Msee	Former Director of Technical
Ms. Erina H. C. Tobing	Director of Engineering
Ms. Enny A. Hardjanto	Director of Program & News
Mr. Sumpena	General Manager for Production Facility Engineering & Infrastructure
Mr. Widyanto	Technical Production Manager
Mr. Syafrullah	Local and Foreign Technical Cooperation
Mr. Herman Suwoto	Engineer
Mr. Wahyu Jah	Architecture
Drs. Nasaruddin Silla	Manager of TVRI Makassar
Mr. Ismail Bakri, S.Sos	Assistant Manager of Technical, TVRI Makassar
Mr. Supardi	Chief of VTR, TVRI Makassar

BUMN (Ministry of State Owned Enterprises)

Mr. Roes Aryawijay	Deputy for Mining, Strategic Industry, Energy and Telecommunication
Mr. Jarman	Assistant to the Deputy for Strategic Industry and Telecommunication
Mr. Eddy Hariono	Assistant to the Deputy for Strategic Industry and Telecommunication

BAPPENAS (The State Ministry of National Development Planning/National Development Planning Agency)

Mr. Gumilang Hardjakoesoema	Director
Dr. Rudy Salahuddin	Head of Sub-Directorate for Post and Telematics

Ministry of Finance

Mr. Abdul Kadir	Head, Bureau for Planning and Finance
Mr. Karsono	Bureau of Planning and Foreign Cooperation

Ministry of Communications and Information

Mr. Gde Widiadnyana Merati	Deputy Minister for Communications Media
Mr. Djamiris Njaman	Deputy Assistant for Broadcasting
Ms. Kusumastuti	Deputy for Human Resources of Communication and Information

Local Government of South Sulawesi Region

Mr. H. M. Amin Syam	Governor
Drs. H. A. Tjoneng Mallombasang	Secretary Director

Embassy of Japan in Indonesia

Mr. Hiroshi Nakayama	First Secretary
----------------------	-----------------

Consulate General of Japan at Makassar

Mr. Motokatsu Watanabe	Consul General
Ms. Matsushiro Katsumi	Vice Consul

JICA Indonesia Office

Mr. Michio Kanda	Former Resident Representative
Mr. Keiichi Kato	Resident Representative
Dr. Makoto Inaba	Deputy Resident Representative
Mr. Motoo Taki	Assistant Resident Representative
Mr. Shuhei Mano	Assistant Resident Representative
Mr. Masayuki Akibayashi	JICA Expert

APPENDICES -4

Minutes of Discussion

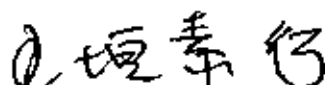
**Minutes of Discussions
of the Basic Design Study
on the Project for the Improvement of the Broadcasting Equipment
of the TVRI Makassar Station in the Republic of Indonesia**

In response to the request from the Government of the Republic of Indonesia (hereinafter referred to as "Indonesia"), the Government of Japan decided to conduct a Basic Design Study (hereinafter referred to as "the Study") on the Project for the Improvement of Broadcasting Equipment for the TVRI Makassar Station (hereinafter referred to as "the Project") and entrusted the Study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Indonesia the Basic Design Study Team (hereinafter referred to as "the Team"), headed by Mr. Motoyuki Uegaki, the Deputy Director of the Office of Technical Coordination and Examination, the Grant Aid Management Department, JICA, and is scheduled to stay in the country from March 30 to May 4, 2003.

The Team held discussions with the concerned officials of the Government of Indonesia. In the course of the discussions, both sides have confirmed the main items described in the attached sheets. The Team will further proceed and prepare the Basic Design Study Report.

Jakarta, April 17, 2003



Mr. Motoyuki Uegaki
Leader
Basic Design Study Team
Japan International Cooperation Agency



Ms. Erina H.C. Tobing
Director of Engineering *ad*
Television of the Republic of Indonesia (TVRI)
Republic of Indonesia

ATTACHMENT

1. Objective

The objective of the Project is to improve the broadcasting system of the TVRI Makassar Station by procuring the broadcasting equipment.

2. Project Site

The project site is shown in Annex-1.

3. Responsible and Implementing Organizations

(1) The responsible ministry is the Ministry of State-owned Enterprises.

(2) The implementing agency is the Television of the Republic of Indonesia (hereinafter referred to as "TVRI").

The tentative organization chart of TVRI is shown in Annex-2, and the fixed chart will be submitted to JICA Indonesia Office within one month.

4. Correction on the Proposal

The Indonesian side explained to the Team that equipment, which was requested for the studio No.1 in the original request, was not for the studio No.1 but was for the studio No.2.

The Team accepted the explanation that this was only a mistype in the proposal.

5. Revised Items

After the discussion with the Team, The Indonesian side revised the items as the final request, which is described in Annex-3.

JICA will assess the appropriateness of the request.

6. Japan's Grant Aid Scheme

(1) The Indonesian side understands the Japan's Grant Aid scheme and the necessary measures to be taken by the Government of Indonesia explained by the Team as described in Annex-4.

(2) The Indonesian side will take necessary measures, as described in Annex-5, for smooth implementation of the Project, as a condition for the Japan's Grant Aid to be implemented.

7. Schedule of the Study

(1) The Team will proceed to further studies in Indonesia by May 4, 2003.

(2) JICA will prepare the draft final report in English and dispatch a mission to Indonesia in order to explain its contents around the middle of July 2003.

(3) In case that the contents of the report is accepted in principle by the Government of Indonesia, JICA will complete the final report and send it to the Government of Indonesia by the end of September 2003.

a

22
r

8. Other Relevant Issues

(1) The Team explained to the Indonesian side that since a part of the existing equipment had been procured by the Japan's Yen loan, that it was in principle, the Indonesian side has a responsibility to replace the equipment with their own budget.

Therefore, it needs a strong justification to apply for the new equipment from the Grant Aid Project.

(2) The Indonesian side will submit answers in English to the Questionnaire, handed by the Team to the Indonesian side, by April 23, 2003.

(3) The Indonesian side shall arrange the budget allocation for undertakings to be done by the Indonesian side described in Annex-4, and other activities for the Project, such as improvement and/or renovation of buildings for securing installation spaces for the Equipment, removal of old equipment and/or facilities, which will be replaced in case the Japan's Grant Aid to be implemented, in accordance with the tentative schedule described in Annex-6.

And the Indonesian side shall also secure the budget for proper operation and maintenance for the equipment procured under the Project.

(4) The Indonesian side shall furnish and/or improve necessary equipment and/or facilities for stable electricity supply and air-conditioning for the equipment procured by the Project in order to secure suitable working condition.

(5) The Indonesian side shall remove the existing analog equipment before the shipment of the equipment procured under the Project, as a condition for the Japan's Grant Aid to be implemented.

(6) The Indonesian side shall provide necessary number(s) of counterpart personnel to the Team during the period of their studies in Indonesia.

(7) The Indonesian side requested the consultant service, so called " the Soft Component " for the production operation and maintenance of the equipment procured under the Project as one of the components of the Grant Aid.

Japanese side will examine the necessity of it, and if necessary, the Team will study the details of the training methods and periods.

The results will be explained to the Indonesian side at the time of explanation of the draft final report.

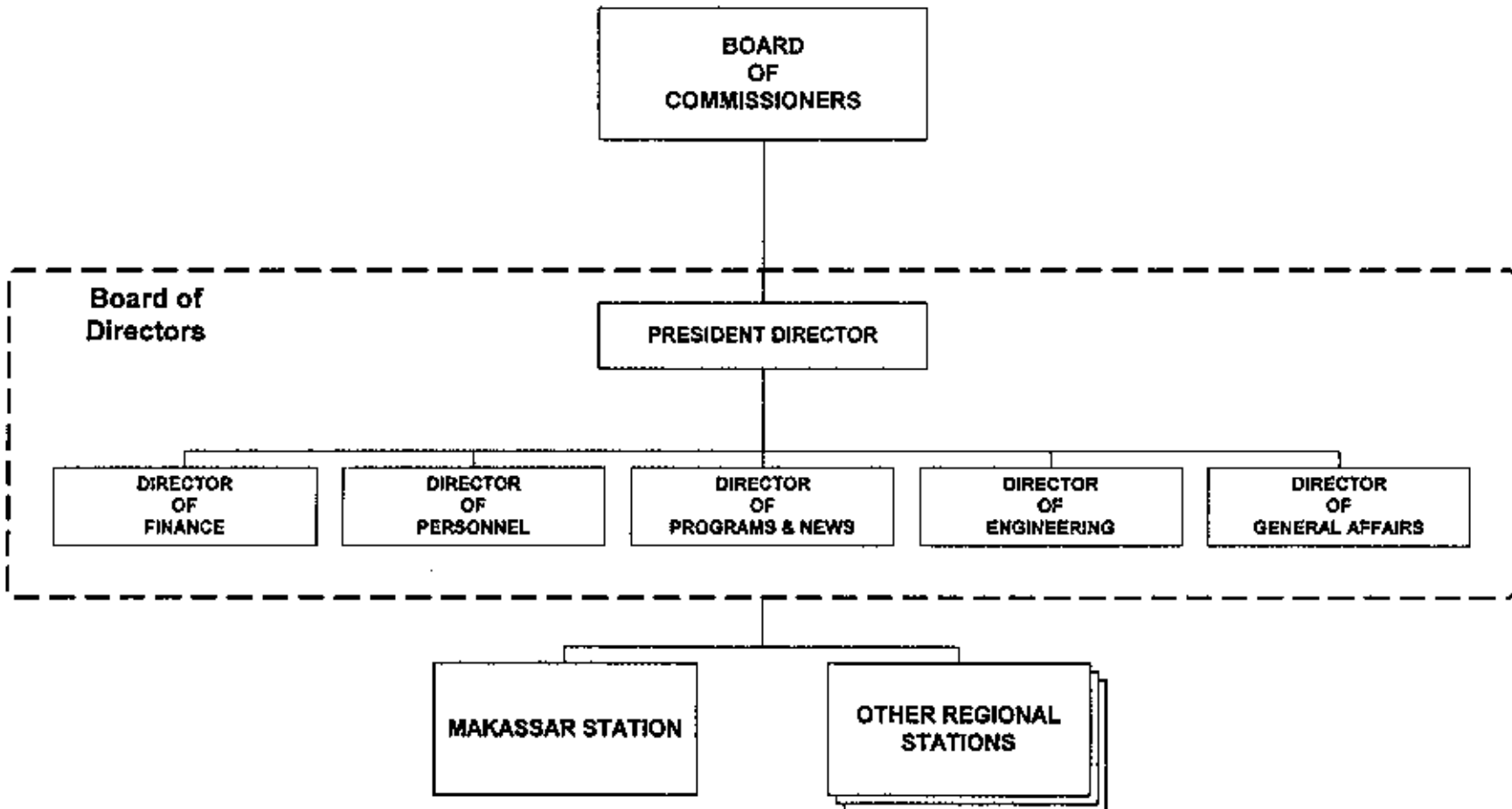
(8) The Indonesian side requested the Team to carry out the counterpart training in Japan as a technical cooperation by JICA, and the Indonesian side understands that a certain official request will be needed from the Indonesian side to the Japanese side through the JICA Indonesia Office regarding this training.

e

H. 102
8

ORGANIZATION CHART OF TVRI
(Tentative)

94-5



2

Handwritten signature

EQUIPMENT LIST

Item	Quantity	Priority
1. STUDIO NO.2		
1.1 Digital camera and CCU system	3 lots	A
1.2 Digital video system	1 lot	
1.3 Digital VTR equipment	3 sets	
1.4 Digital audio system	1 lot	
1.5 Lighting system	1 lot	
1.6 Sync. system	1 lot	
1.7 Monitoring system (A/V)	1 lot	
1.8 Clock system (slave)	1 lot	
1.9 Character generator system	1 lot	
1.10 Intercom system	1 lot	
1.11 Tally system	1 lot	
1.12 On-air system	1 lot	
2. EDITING/POST PRODUCTION		
2.1 A/B roll editing system	1 lot	C
2.2 Non linier editing system	1 lot	
3. FPU (Field Pick up Unit) excluding installation	1 pair	B
4. PROGRAM CONTINUITY ROOM		
4.1 Routing switch system	1 lot	A
4.2 Sending VTR equipment	3 sets	
4.3 Character generator system	1 set	
4.4 Monitoring system (A/V)	1 lot	
4.5 Clock system (Master)	1 lot	
4.6 Sync. system	1 lot	
4.7 Format converter system	1 lot	
4.8 Digital camera (EFP) for continuity room	2 lots	B
5. NEWS PRODUCTION EQUIPMENT		
5.1 1:1 Editing system	3 lots	C
5.2 ENG camera system	2 sets	B
6. Measurement tools	1 lot	A
7. Spare parts	1 lot	A

(Remarks)

- A: Top prioritized equipment
- B: Optional equipment
- C: Low prioritized equipment

JAPAN'S GRANT AID

The Grant Aid Scheme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

Japan's Grant Aid Scheme is executed through the following procedures.

Application	(Request made by the recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by the Cabinet)
Determination of	(The Note exchanged between the Governments of Japan and recipient
Implementation	country)

Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study) using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Scheme, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes (E/N) signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

2. Basic Design Study

(1) Contents of the study

The aim of the Basic Design Study (hereafter referred to as "the Study") conducted by JICA on a requested project (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- Preparation of a basic design of the Project.
- Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of the Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA. The consultant firm(s) used for the Study is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

3. Japan's Grant Aid Scheme

(1) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

(2) "The period of the Grant Aid" means the one fiscal year, which the Cabinet approves, the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed. However, in case of delays in delivery, installation or construction due to unforeseen factors such as national disaster, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

(3) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country. However, the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

Q

Handwritten signature and number 2.

(4) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

(5) Undertakings required of the Government of the Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as the following:

a) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction,

b) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,

c) To secure buildings prior to the procurement in case the installation of the equipment,

d) To ensure all the expenses and prompt excursion for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,

e) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,

f) To accord Japanese nationals, whose services may be required in connection with the supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(6) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and the equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

(7) "Re-export"

The products purchased under the Grant Aid should not be re-exported from the recipient country.

(8) Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

(End)

Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient side
1	To bear the following commissions to a bank of Japan for the banking services based upon the B/A		
	a) Advising Commission of A/P		●
	b) Payment commission		●
2	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country		
	a) Marine (Air) transportation of the products from Japan to the recipient country	●	
	b) Tax exemption and customs clearance of the products at the port of disembarkation		●
	c) Internal transportation from the port of disembarkation to the project site	(●)	(●)
3	To accord Japanese nationals, whose services may be required in connection with the supply of the products and the services under the verified contract, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.		●
4	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract		●
5	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid		●
6	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment		●

(B/A: Banking Arrangement, A/P: Authorization to pay)

Q

A4-10

The Project for Improvement of Broadcasting Equipment for the TVRI Makassar Station in the Republic of Indonesia
 Tentative Implementation Schedule

Item	year month	2003			2004												2005	
		10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1. Approval of the Project by the Government of Japan (GOJ)		▼																
2. Exchange of Notes by both Governments (including the Note Verbal)			▼												▼ Note Verbal			
3. Concluding the Banking Arrangement between the Indonesian side and a Japanese bank			▼															
4. Concluding the consulting services agreement (the Agreement) (including amendments)			▼												▼ Amendment			
5. Preparation of the Tender Documents (T/D)				▬														
6. Verification of the Agreement and issuing the authorization to pay (A/P) (including amendments)			▼												Amendment ▼			
7. Detailed design study (T/D)					▬													
8. Obtaining approvals of LMD and T/D by TVRI and JICA					▼													
9. Tender Notice, Tender Opening and Evaluation						▬												
10. Equipment procurement and installation works by the Japanese side																		
(1) Concluding the Contract between TVRI and the Supplier (including amendments)						▼									Amendment ▼			
(2) Preparation of drawings of the equipment and materials and obtaining the Consultant's approvals							▬											
(3) Manufacturing the equipment and materials								▬										
(4) Transportation of the equipment and materials including pre-shipment inspection													▬					
(5) Installation work of the equipment and materials at the Project Site														▬				
(6) Site test, O/I and Acceptance test																▬		
(7) Handing over																	▼	
11. Works to be done by the Indonesian side																		
(1) Local cost estimate and obtaining approval of the budget from BAPPENAS/Ministry of Finance				▬														
(2) Tendering and award of the Contract					▬													
(3) Removal of the existing equipment, Renovation of building/interior and Rehabilitations of electricity and Air-conditioning system							▬											

A4-11

**Minutes of Discussions
on the Basic Design Study
on the Project for the Improvement of the Broadcasting Equipment
of the TVRI Makassar Station in the Republic of Indonesia
(Explanation on the Draft Report)**

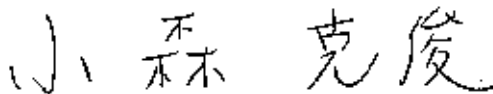
In response to the request from the Government of the Republic of Indonesia (hereinafter referred to as "Indonesia"), the Government of Japan decided to conduct the Basic Design Study on the Project for the Improvement of Broadcasting Equipment for the TVRI Makassar Station (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Indonesia the Basic Design Explanation Team (hereinafter referred to as "the Team"), headed by Mr. Katsutoshi Komori, an Officer of the Third Project Management Division, the Grant Aid Management Department, JICA, and is scheduled to stay in the country from July 6 to 19, 2003.

The Team held discussions with the officials concerned of the Government of Indonesia.

In the course of the discussions, both sides have confirmed the main items described in the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

Jakarta, July 11, 2003



Katsutoshi Komori
Leader
Basic Design Explanation Team
Japan International Cooperation Agency



Erina H. C. Tobing
Director of Engineering
Television of the Republic of Indonesia (TVRI)
Republic of Indonesia

ATTACHMENT

1. Contents of the Draft Report

The Indonesian side agreed and accepted in principle the contents of the Draft Report explained by the Team.

2. Japan's Grant Aid Scheme

The Indonesian side understands the Japan's Grant Aid scheme and the necessary measures to be taken by the Indonesian side as explained by the Team and described in the Annex-4 and Annex-5 of the Minutes of Discussions (M/D) signed by both sides on April 17, 2003 (hereinafter referred to as "the previous M/D").

3. Schedule of the Study

JICA will complete the Final Report in accordance with the confirmed items and send it to the Indonesian side by the end of September, 2003.

4. Other Relevant Issues

- 4-1 The Indonesian side shall replace the Equipment installed in the Project at their own expenses in the future when the Equipment becomes deteriorated, and will submit a written memorandum of understanding on their future self renewal plan of the Equipment to the Japanese side via the JICA Indonesian Office by the end of July, 2003.
- 4-2 The Indonesian side shall secure the budget for undertakings by the Indonesian side described in Annex-4 of the previous M/D, and for the Project's implementation, such as improvement and/or renovation of buildings for securing installation spaces for the Equipment, removal of old equipment and/or facilities, which will be replaced in case the Japan's Grant Aid to be implemented, in accordance with the tentative schedule described in Annex-6 of the previous M/D. And the Indonesian side shall also secure the budget for proper operation and maintenance for the Equipment.
- 4-3 The Indonesian side shall furnish and/or improve necessary Equipment and/or facilities for the stable electricity supply and air-conditioning for the Equipment in order to secure suitable working condition.
- 4-4 The Indonesian side shall remove the existing analog equipment before the shipment of the Equipment.
- 4-5 The Team handed one copy of the draft detailed specifications of the Equipment to the Indonesian side. These draft specifications were confidential and should not be duplicated or release to other outside parties in order to secure the fairness of the tender of the Project. The Indonesian side will study the draft detailed specifications, and will give comments on the draft during the Consultant's stay in Indonesia. The Indonesian side informed that its policy is that the equipment should not "brand driven" but "function driven".
- 4-6 For the sake of the technology transfer on sustainable and properly operation and maintenance on procured equipment under the Project, the Indonesian side requested technical training of the counterpart personnel in Japan, and also understood that the official request on technical cooperation should be submitted through the JICA Indonesian Office.
- 4-7 The Indonesian side requested the Team to include an A/B roll editing system in the Project. The Team replied that it is not necessary in the Project, because the equipment installed for Studio No.2 and VCRs of the PC Room in the TVRI Makassar Station covers the main function of A/B roll editing system, and the TVRI Makassar Station could use such equipment for editing during the off broadcasting hours. The Indonesian side understood the explanation by the Team that the equipment

in the PC room could possibly be used for editing but not as an A/B roll editing system, since the editing control function is not included in the PC room. Both sides agreed not to include an A/B roll editing system in the Project due to the minimum requirement equipment with minimum cost to be procured under the Project.

- 4-8 The Indonesian side requested the Team to include a new nonlinear editing system in the Project. The Team explained that the TVRI Makassar Station has already had a nonlinear editing system. Both sides agreed not to include a nonlinear editing system in the Project due to the minimum requirement equipment with minimum cost to be procured under the Project.
- 4-9 The Indonesian side expressed that they would endeavor to publicize Japan's ODA projects to the people of Indonesia through the production and broadcasting of the TV programs by using the Equipment.
- 4-10 The Indonesian side requested to the Team to reconsider the Indonesian side's request for additional editing equipment and Master Clock system, if there is an opportunity in the future.

APPENDICES -5

Soft Component

Soft Component Plan

1. Background

Through the implementation of the Project, the existing analogue equipment at the TVRI Makassar Station will be replaced by new digital equipment. Although the staff of the TVRI Makassar Station are familiar with the operation and maintenance of the existing analogue equipment, the staff lack experience of public broadcasting using the latest system technologies, such as analogue/digital conversion and network data transmission using digital equipment.

Therefore, the provision of technical guidance for the staff of the TVRI Makassar Station on broadcasting equipment operating technologies (particularly digital networking technologies) required to change the broadcasting equipment from the existing analogue equipment to the newly procured digital equipment will be necessary

While the Suppliers (equipment manufacturers) for the Project will provide technical Guidance on the operation and maintenance of their equipment procured under the Project, the main focus of this soft component to be conducted by the Consultant will be placed on the total system, integrating the existing and new equipment at the TVRI Makassar Station.

The replacement of analogue equipment by digital equipment will enable the production of new types of programmes, utilising the latest functions of digital equipment to the full extent. However, as the staff of the TVRI Makassar Station do not have any experience of producing programmes using the latest equipment, the simple introduction of such equipment will not lead to the effective use of the equipment. The Consultant will make the technology transfer for programme production technologies using digital equipment essential under the soft component.

This transfer of technologies is expected to improve the programmes production and quality to be produced by the TVRI Makassar Station and to expand the viewer base, in turn affecting the level of highly qualified programme which will presumably become of sustainable operation of the station in the future.

2. Purposes

There are two purposes of the planned activities as listed below.

- ① Transfer of digital network operating technologies to ensure the continuity of public broadcasting
- ② Transfer of programme production technologies utilising the digital equipment to be procured under the Project

3. Expected Effects

The implementation of the soft component is expected to achieve the following effects.

- The proper learning of digital equipment operating technologies will achieve a smooth change over from the existing analogue system to the new digital system, ensuring the continuity of public broadcasting.
- The transfer of a wide range of operating technologies, from the basic technologies of digital equipment to the networking of the entire station, will enable the appropriate operation and maintenance of the new digital equipment procured under the Project for many years to come.
- The transfer of programme production technologies, incorporating the special effects and broadcasting quality possessed by the latest technology, will enable the broadcasting of programmes which will be appreciated by viewers. The improved quality of programmes is expected to increase the number of viewers of the TVRI Makassar Station.

4. Planned Activities

(1) Sites of Activity for Dispatched Experts

- 1) Guidance on the broadcasting network system
 - To be conducted at the TVRI Makassar Station
- 2) Guidance on programme production technologies
 - Guidance on the operation of the broadcasting equipment and also on programme production technologies will be conducted in the city of Makassar and its proximity.

(2) Contents of Field Guidance Provided by Dispatched Experts and Required Period for Technical Guidance

The planned contents of the field guidance to be provided by the dispatched experts are shown in Table 1 while the required period for technical Guidance is shown in Table 2.

In accordance with the implementation schedule of the Project, one instructor on digital network system and two instructors (experts) on programme production will be dispatched from Japan.

(3) Output of Technical Guidance

The following outputs are expected during the dispatch period of the Japanese experts.

- 1) Each expert will produce a manual based on a series of Guidance summaries prepared by the said experts at each curriculum during the dispatch period.
- 2) A trial programme will be jointly produced with the staff of the TVRI Makassar Station.
- 3) Evaluation report will be compiled after overall evaluation for the trial programme to be made by both the Japanese experts and the staff of the Makassar Station.

Table 1 Contents of Technical Guidance Under Soft Component

1) Guidance on Digital Network System

Item	Contents
1. Guidance on the basics of analogue/digital conversion technologies and applied theory of data transmission and networking	<ol style="list-style-type: none"> 1. Understanding of analogue technologies <ol style="list-style-type: none"> (1) Characteristics of video and audio signals (2) Technical standards of signal quality (dBm and S/N, etc.) (3) Basic technology of monitors setting up method; evaluation technologies 2. Understanding of digital technology <ol style="list-style-type: none"> (1) Basics of formatting (AES/EBU, etc.) (2) Understanding of video and audio control signals, such as synchronising signals of broadcasting technology (3) Comparison between non-synchronising and synchronising signals and analogue measuring technologies, etc. 3. Applied Technologies <ol style="list-style-type: none"> (1) Digital application, characteristics by each equipment (2) Digital technology (3) Computing and data transmission

2) Guidance on Programme Production

Item	Contents
1. Planning of programme production	<ol style="list-style-type: none"> 1. Basic principles of programme production, staffing 2. Preparation of scripts for programme production, selection of performer 3. Selection of location(s) and required equipment, pre-discussion for implementation
2. Production of local programmes	<ol style="list-style-type: none"> 1. Practical lesson of programme production by selecting one or two sites

3. Video & audio processing	1. Video processing (1) Work flow to create composite images (2) Special effects (DVE: digital video effects) 2. Audio processing (1) Work flow of audio processing (2) Special effects addition
4. Overall evaluation of broadcasting programmes using digital and other new technologies	1. Quality management (1) Video quality and audio data assurance technologies and important points (2) General preview and evaluation

3) Outputs

Contents of Field Guidance	Outputs
Guidance on Digital Network System	Manual for network system understanding: 10 copies
Guidance on Programme Production Technologies	VTR tape (approx.20 minutes): 1

5 Implementation Schedule

Table 2 Soft Component Implementation Schedule

1) Guidance on Broadcasting Network System

Item	Month	1	2	3	4
	1. Review of the basic theory of analogue technology				■
2. Guidance on the basic theory of digital conversion technology				■	
3. Guidance on the applied theory of data transmission and networking					■
Installation work period		—————			

2) Guidance on Programme Production Technologies

Item	Month	1	2	3	4
	1. Planning of Programme production				■
2. Production of local programme				■■■■	
3. Programme processing					■
4. Overall evaluation of broadcasting programmes using digital and new technologies					■
Installation work period		■■■■■			

■ : Technical Guidance Period

□ : Installation Work Period

6. Undertaking

The major undertaking of soft component between the Japanese side and Indonesian side is as follows.

Item	Responsible Side		Remarks
	Japan	Indonesia	
Payment of expert/staff expenses associated with recording work (including various allowances for accommodation and meals, etc.)	○ (expert)	○ (staff)	
Payment of vehicle expenses for the transportation of expert/staff and equipment (including patrol cost and driver's wages)	○ (expert)	○ (staff)	
Supply of recording equipment (including tapes and other consumables)		○	To be procured in the Project
Permission for recording		○	
Broadcasting of the recorded programme		○	By Makassar Station

APPENDICES –6

Report of the Site Survey for The Structure of Studio No. 2

**BASIC DESIGN STUDY
ON
THE PROJECT
FOR
THE IMPROVEMENT OF THE BROADCASTING EQUIPMENT
OF
THE TVRI MAKASSAR
IN
THE REPUBLIC OF INDONESIA**

**REPORT OF THE SITE SURVEY
FOR THE STRUCTURE OF STUDIO No. 2**

JULY 2003

**JAPAN INTERNATIONAL COOPERATION AGENCY
YACHIYO ENGINEERING CO., LTD.**

N. Yamamoto

CONTENTS

1. Purpose of the survey	1
2. Survey date	1
3. Actual condition of the project site.....	1
4. Result and recommendation	1
5. Attachment	
5-1. Drawings	2-6
5-2. Project site photograph	7
5-3. Structural calculation	8-9

Shigeo Yamamoto

1. Purpose of the survey

Purpose of the survey is to confirm the strength of the hanging structure of Studio No.2 in TVRI Makassar due to the new loads of lighting facilities. In case of the hanging structure has not adequate strength, the consultants propose appropriate reinforcement plan to Indonesian Government that shall be covered by local budget.

2. Survey date

July 15th 2003 ~ 17th 2003

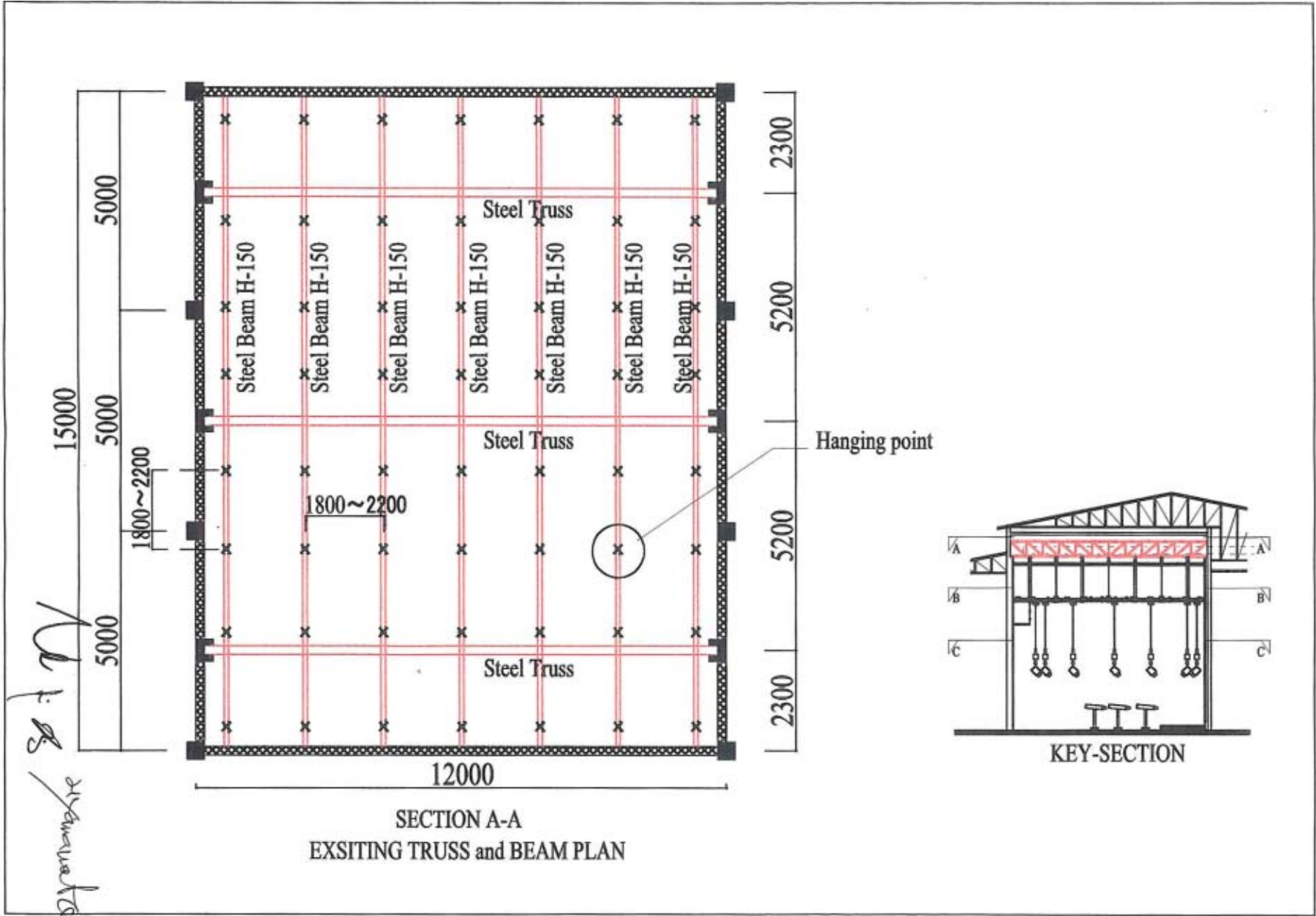
3. Actual condition of project site

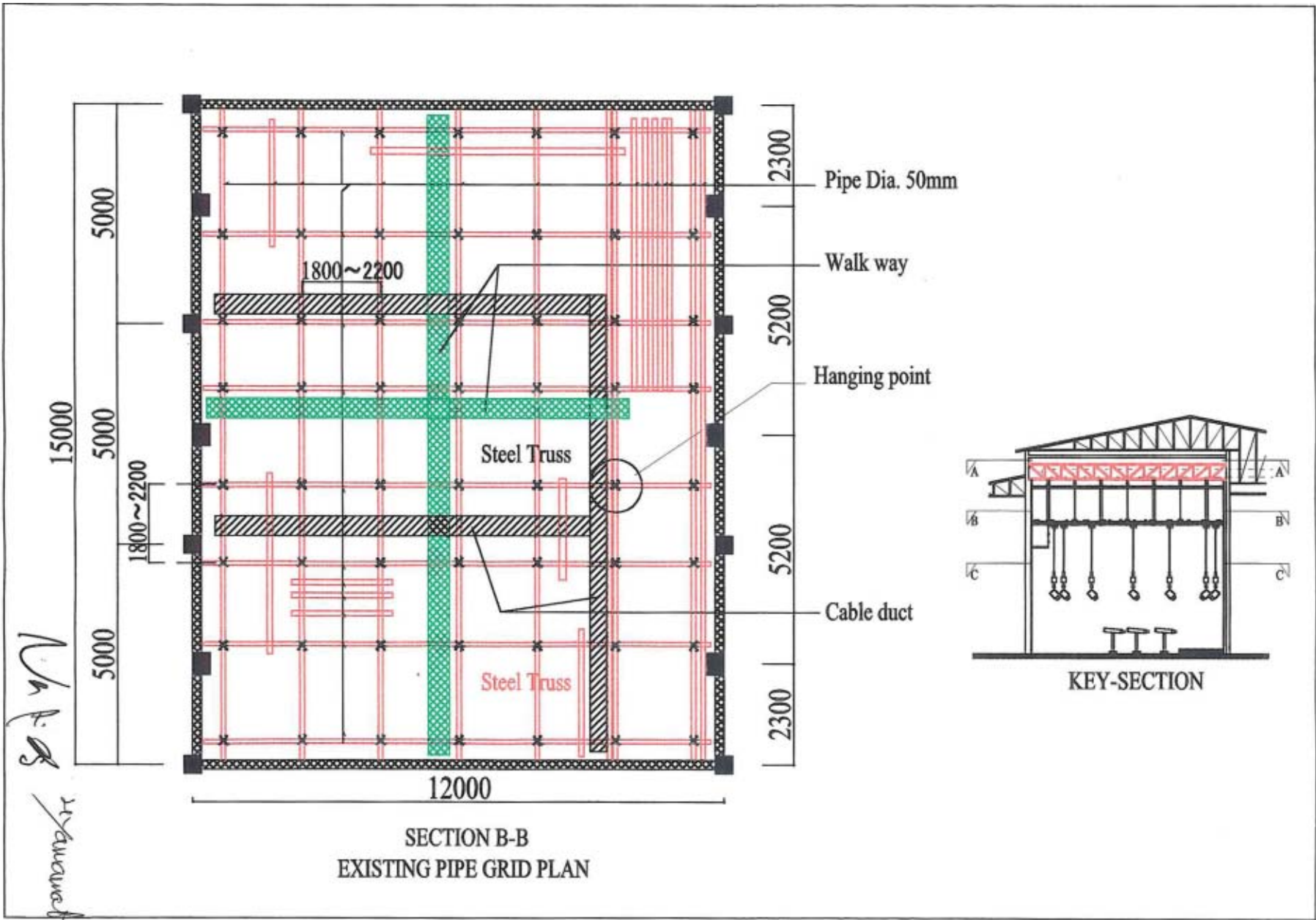
The TVRI Makassar station that has 2 (two) stories was built in 1980, meanwhile, the station extensively and reconstructions were repeated. Studio No.2 has well hole and it's height is approximately 12.0m. All of the inside wall including ceiling covered by glass wool for the purpose of the soundproofing. The piping grid is installed in the height of 8.0m. The lighting battens are suspended from piping grid and wiring cable tray is running on this piping grid. The ceiling and wooden grid are installed in the height of 10m from the ground floor. The roof was built by concrete slab and covered by steel corrugated plate. For the purpose of the support loads of the lighting facilities, piping grid, wiring cable tray, maintenance walk way, air duct and ceiling, the three steel truss are installed behind the ceiling as shown section 1-1 and 2-2 attached herewith. Further more, seven H-shape steel beams are installed across the three steel trusses. All of the suspension loads are suspended by steel bar spacing about 2.0m for each direction.

4. Result and recommendation

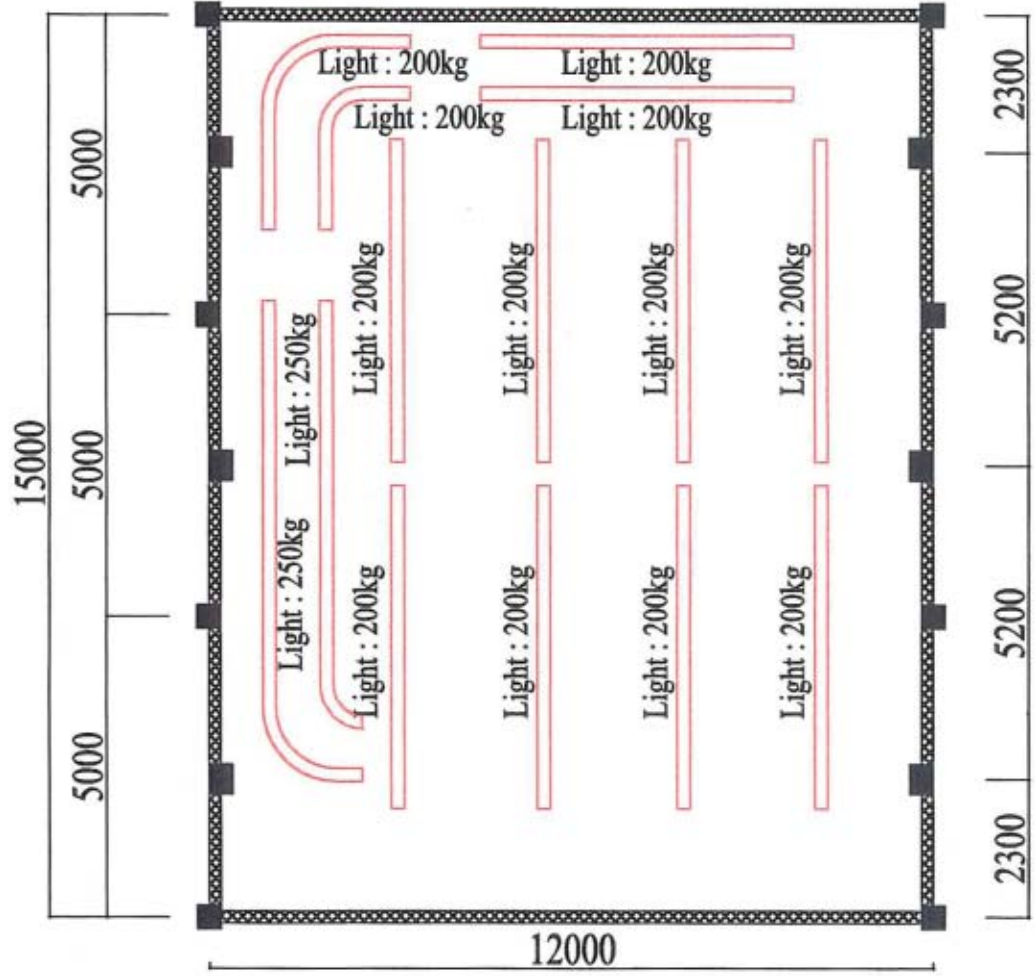
The existing steel truss behind the ceiling has no damage from corrosion. The result of structural calculation due to the suspension loads attached herewith, this steel truss has adequate strength for support all of the suspension loads, and therefore **the additional reinforcement is unnecessary.**

Naps Yamamoto

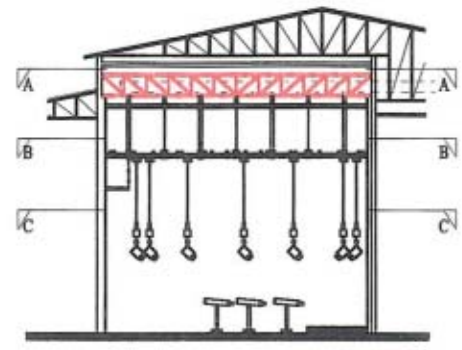




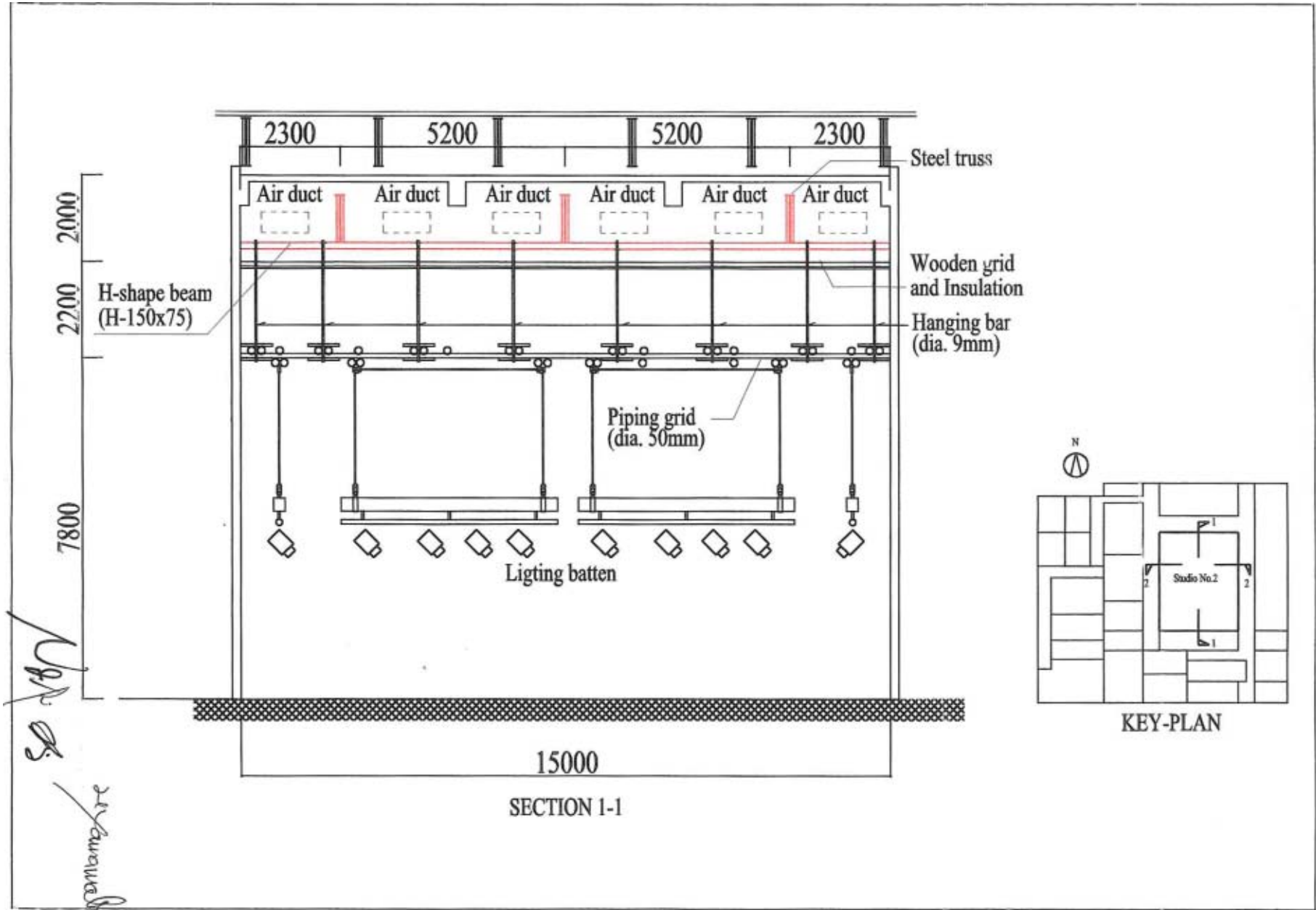
Handwritten signature and initials



SECTION C-C
LIGHTING PLAN



KEY-SECTION



Photograph of hanging structure of Studio No.2



① Existing Steel truss
Three steel trusses were installed behind ceiling for the purpose of support suspension loads.



② Existing H-shape beam and connection



④ Piping grid and wiring rack



③ Existing lighting batten



⑤ Ceiling and suspension



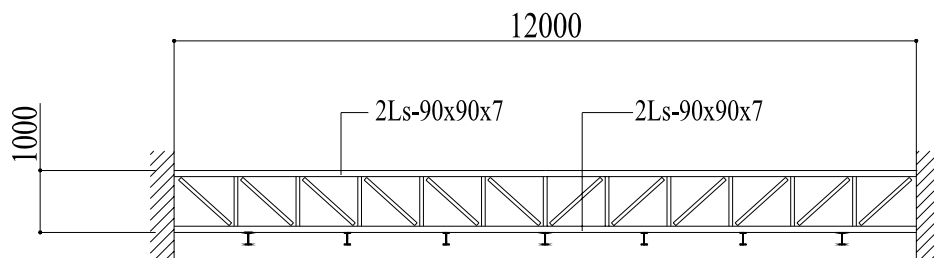
⑥ Piping grid and connection

Stress calculation of the steel truss

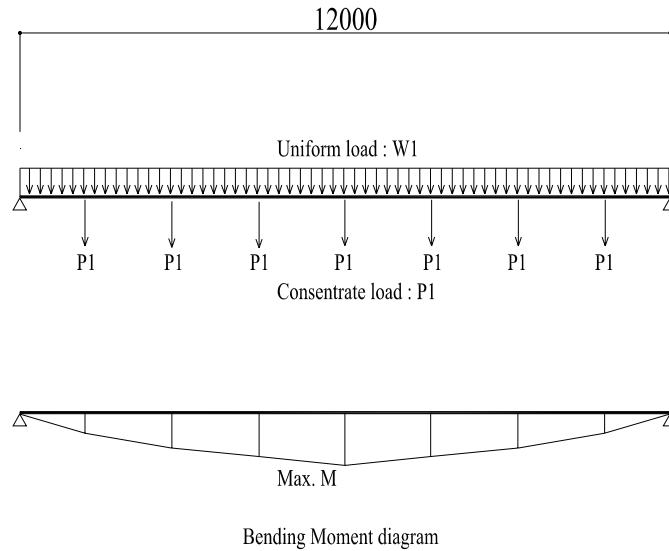
(1) Loads

- | | | | |
|----|----------------------------|---|---------------------------------------|
| 1) | Light batten | | |
| | | $200\text{kg}/(5.0\text{m} \times 1.4\text{m})=27\text{kg}/\text{m}^2$ | $\rightarrow 35\text{kg}/\text{m}^2$ |
| 2) | Pipe grid | | |
| | | Dia.50 (5.0kg/m) Total Length=Apr. 320m | |
| | | $5.0\text{ kg}/\text{m} \times 320\text{m} / (11\text{m} \times 14\text{m})=11.0\text{kg}/\text{m}^2$ | $\rightarrow 15\text{kg}/\text{m}^2$ |
| 3) | Ceiling | | |
| | Wooden grid and Insulation | | $\rightarrow 15\text{kg}/\text{m}^2$ |
| 4) | Cable duct | | |
| | Wide 30cm | | $\rightarrow 20\text{kg}/\text{m}^2$ |
| 5) | Air duct | | |
| | Wide 1.0m x Height 50cm | | $\rightarrow 30\text{kg}/\text{m}^2$ |
| 6) | Maintenance stage | | |
| | <u>Surcharge</u> | | $\rightarrow 100\text{kg}/\text{m}^2$ |
| | | Total | 215kg/m ² |
| 7) | Steel truss self weight | | |
| | 2x2-Lx90x90x7 | | $\rightarrow 60\text{kg}/\text{m}$ |
| 8) | H Shape Beam | | |
| | H-150x75 | | $\rightarrow 15\text{kg}/\text{m}$ |

(2) Dimension of the steel truss



(3) Load and Stress diagram



$$W1 = 0.06 \text{ t/m}$$

$$P1 = 0.215 \text{ t/m}^2 \times 1.7 \text{ m} \times 5.2 \text{ m} + 0.015 \times 5.2 \text{ m} = 2.0 \text{ ton}$$

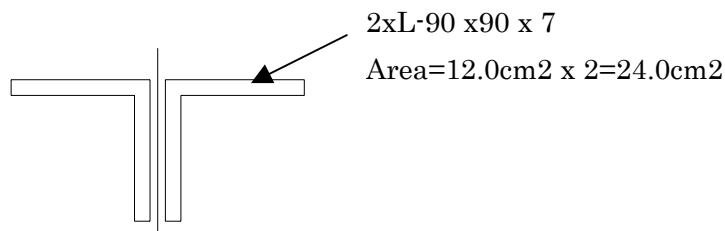
(4) Stress and section design

Maximum bending moment

$$\text{Max. } M = 0.06 \times 12.0 \times 12.0 / 8 + 2.0 \text{ ton} \times 7/2 \times 6 - 2.0 \times (1.7 + 3.4 + 5.1) = 23.0 \text{ tm}$$

Maximum axial force of shord member

$$N_{\text{max}} = 23.0 \text{ tm} / 1.0 \text{ m} = 23.0 \text{ ton}$$



Allowable compression strength = 1.6 t/cm²

Considering buckling length, allowable compression strength shall be reduced to 1.0 t/cm²

$$\text{Working compression stress } f_c = 23.0 \text{ ton} / 24.0 \text{ cm}^2 = 0.96 \text{ t/cm}^2 < 1.0 \text{ t/cm}^2 \rightarrow \text{OK}$$

* Working stress is smaller than Allowabel stress