

Chapter 3

Project Evaluation and Recommendations

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3-1 Project Effect

Current Situation and Problems	Measure Taken in the Project (Cooperative Program)	Planning Effect and Improvement Degree
<p>1. All of the broadcasting equipment owned by the News Division is old and has deteriorated, and it is important to implement planning for the replacement of the equipment at the earliest possible time, in order to provide news programs on a stable basis.</p> <p>2. The possibility of equipment breakdowns brings the risk of interruptions of news broadcasts, making it impossible to provide news on an immediate basis. This threat is increasing daily.</p> <p>3. As most news networks now use digital equipment, the digitization of cameras, editing machines and other production equipment is urgently needed.</p>	<p>Improvement of news production equipment and broadcast tape storage systems listed below.</p> <ul style="list-style-type: none"> • 1-to-1 editing systems • A/B roll editing system • Non-linear editing system • On-Air VTR systems • Foreign program recording systems • Camera systems for news coverage • Studio recording VTR systems • Character generators • Broadcast tape storage system 	<ul style="list-style-type: none"> • 80% of the equipment provided for news production will be digital. • It will be possible to broadcast news programs on a stable basis. • The threat of broadcasting accidents can be prevented. • The size of news coverage crews will be increased, and contents of news coverage will be strengthened. • Approximately 60 times the current amount of news coverage can be expected.
<p>4. With the increase in broadcast hours, the amount of programming produced by the news division will also increase.</p>	<p>Implementation of the soft component will provide guidance in program production training and facilitate the smooth startup of the project.</p> <ul style="list-style-type: none"> • Instruction in the fundamental theories related to programming, program planning and creating program scripts. • Practical instruction in the operation methods of the various types of digital equipment to be provided (cameras, VTRs, editing machines, etc.) and training. • Instruction in how maintenance is to be carried out. • Practical instruction in methods of using TV cameras and lighting. 	<ul style="list-style-type: none"> • Less time will be required for program production, and editing will be carried out approximately 80 times more efficiently. • The time allotted to news programs produced by the News Division will be extended, making it possible to accommodate extended broadcast hours. • Increases in the time allotted for news programs can be accommodated. • Periodic maintenance will be carried out more often.
<p>5. Numerous video films and analog tapes that were produced since the station opened, and are of significant historical value, have been stored at the station, but long-term storage is causing deterioration of picture quality.</p>	<ul style="list-style-type: none"> • Improvement of broadcast tape storage system 	<ul style="list-style-type: none"> • Broadcast tape storage systems will be digitized, and it will be possible to store broadcast program tapes (about 2,000 tapes per year) for longer periods. • Storage of 50,000 digital tapes will be possible.

3-1-1 Direct Effects

(1) Ensuring the immediacy of news

Replacing the aged and deteriorating equipment in TVRI's News Division will reduce the number of equipment breakdowns and ensure the immediacy of news reporting.

- (2) Updating the analog equipment of the News Division with digital equipment will enable the broadcasting of news programs on a stable basis to approximately 160 million people, or 82% of the overall population—primarily the approximately 9 million people in Jakarta.

3-1-2 Indirect effects

Implementing the project will result in the following:

- (1) The time spent on producing programs in the News Division will be reduced, making it possible to boost the ability to produce and transmit programs.
- (2) Re-recording historic news materials (films and analog tapes) as digital data will improve the storage conditions and enable long-term storage and reuse of these materials in programs.
- (3) Strengthening news programs will enable more efficient reporting on natural disasters and calamities, thus reducing the number of victims.

3-2 Recommendations

In terms of the results of the field survey conducted to determine the effectiveness, organizational structure, funding, and other aspects of the project, no problems are foreseen, but the following proposals are made in order to further realize and sustain the effects of the project.

- (1) Broadcasting equipment

TVRI broadcasts 16 hours of programs from 13 broadcasting stations and 331 transmitting stations to 82% of the population. In order to manifest and sustain the effectiveness of the equipment provided through the project, proper operation of the transmission equipment will be absolutely necessary.

In a survey of TVRI's broadcasting and transmission equipment, no problems were observed with operation, but like the equipment in the News Division, it is old and has deteriorated, making future operation and maintenance a significant problem.

(2) Items to be borne by Indonesia

As of November 2001, items that are to be borne by Indonesia as conditions for implementing the project are as follows:

- Renovation of existing building(s) to install the procured equipment
- Inland transportation of the procured equipment, insurance, and means for eliminating duties
- Assurance of the necessary budget and personnel for running and maintenance of the procured equipment

It is hoped that Indonesia will promptly do everything in its power to implement these and other items to be borne by the Indonesian side.

(3) A maintenance/repair system for TVRI's broadcasting equipment is in place, and offers a high level of technological sophistication, but there are problems involving maintenance, in terms of recording data for daily operation of the equipment and implementation of periodic maintenance.

Consequently, recording of data concerning daily operation of the equipment and implementation of periodic maintenance with the aim of stable operation are indispensable, and it will be necessary to strengthen the system under which such maintenance is carried out.

(4) Soft component

Some engineers at TVRI have a high level of technical capability and long years of experience, but when the digital equipment is provided, they will need new know-how to make the switch from analog to digital technology. In order to sufficiently grasp the functions of the procured equipment and to run it effectively, guidance in the fundamental technology and training in the implementation of program production have been planned through a soft component. It is hoped that engineers will actively participate in this soft component and will strive to master this know-how.

3-3 Conclusion

The project can be expected to yield the significant results described earlier, and at the same time will make a strong and far-reaching contribution to improving the BHN (Basic Human Needs) of the resident population. For this reason, it is considered appropriate for Japan to implement grant aid cooperation. Additionally, it is thought that the organizational structure of the recipient country affords adequate personnel and funds to assure the operation and maintenance control for the project. If improvement can be made concerning the points listed below, however, it is believed that the project can be implemented even more smoothly and effectively.

It will be necessary to strengthen the broadcasting equipment operation and maintenance system in order to run the project effectively and efficiently.

- 1) Determining the tendency for each piece of equipment to occur trouble in daily operation.
- 2) Obtaining data on the frequency of the trouble and storing the necessary among of spare parts based on this data.