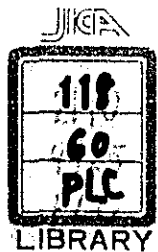


**JICA'S TECHNICAL COOPERATION
IN
THE REPUBLIC OF THE PHILIPPINES**

1983



Japan International Cooperation Agency



| | |
|---------------------|-----------|
| 国際協力事業団 | |
| 受入 月日 '84. 5. 15 | 118 |
| 登録No. 04584 | 60 PLC |

| | |
|-----------|------|
| 国際協力事業団 | |
| 58. 9. 8 | 2190 |
| | 9925 |
| No. 16586 | PLC |

C O N T E N T S

| | Page |
|--|------|
| Introduction | 1 |
| Outline of JICA's Technical Cooperation | 2 |
| Table 1. Total Expenditures by Program | 5 |
| Table 2. Training Program for Overseas Participants (Number of Philippine Participants) | 6 |
| Table 3. Expert Assignment Program (Number of Japanese Experts) | 7 |
| Table 4. Japan Overseas Cooperation Volunteers Program (Number of Japanese Volunteers) | 8 |
| Table 5. Equipment Supply Program (Expenditures) | 9 |
| Table 6. Project-Type Technical Cooperation Programs | 10 |
| Table 6.1 Overseas Technical Cooperation Center Program | 10 |
| Table 6.2 Health and Medical Cooperation Program | 11 |
| Table 6.3 Agriculture, Forestry and Fisheries Cooperation Program | 12 |
| Table 6.4 Industrial Development Cooperation Program | 13 |
| Table 7. Development Survey Program (Expenditures) | 14 |
| Table 8. Development Cooperation Program (Expenditures) | 22 |

JICA LIBRARY



1045674[7]

Introduction

The Japan International Cooperation Agency (JICA) is a governmental organization established in 1974. JICA performs activities related to international cooperation with developing countries.

In order to implement the work smoothly and effectively, JICA obtains extensive cooperation from governmental organs, local autonomous bodies and private enterprises in Japan, keeping in close contact with governments of developing countries and international organizations.

The following is an outline of the operations carried out by JICA:

- (1) to extend technical cooperation to developing areas on a government-to-government basis;
- (2) to carry out the work necessary for the promotion of the activities of the Japan Overseas Cooperation Volunteers;
- (3) to supply funds necessary for the improvement of the facilities related to social development, development of agriculture, forestry, mining and manufacturing, or funds necessary for pilot projects;
- (4) to provide services necessary for smooth emigration of Japanese to South America or other parts of the world;
- (5) to recruit and provide training to qualified personnel for technical cooperation; and
- (6) to provide new services for the implementation of Capital Grant Assistance to developing areas.

Outline of JICA's Technical Cooperation

1. Training Program for Overseas Participants

This program provides overseas participants with technical training in various fields. There are two types of training designed at the request of developing countries; a group training program and an individual training program.

Participants study at JICA training centers, government research organizations, universities and/or training centers of private enterprises.

2. Expert Assignment Program

JICA sends Japanese experts to developing countries or international organizations. The experts participate in planning, execution, evaluation and make recommendations for development programs in these government organizations, research institutes, or training centers.

3. Equipment Supply Program

In order to make technical cooperation more effective, JICA supplies equipment necessary for the activities of JICA's ex-trainees, Japanese experts, and Japan Overseas Cooperation Volunteers.

The equipment includes machinery, machine tools, etc.

4. Project-Type Technical Cooperation Programs

"Project-type" technical cooperation programs combine the above-mentioned three forms of programs and are carried out systematically and comprehensively in the countries concerned.

Under these types of programs, JICA provides technical assistance by dispatching survey teams, assigning experts, supplying equipment, accepting counterparts related to projects, and performing follow-up evaluation after the completion of the projects.

These types of programs include the Overseas Technical Cooperation Center Program, the Health and Medical Cooperation Program, the Agriculture, Forestry and Fisheries Cooperation Program, as well as the Industrial Development Cooperation Program.

4.1 Overseas Technical Cooperation Center Program

Overseas technical cooperation centers are designed to provide training for engineers and for skilled workers whose services are essential to the socio-economic progress of developing countries.

This program aims at development of manpower resources, development and improvement of production methods, and the development of vocational training.

4.2 Health and Medical Cooperation Program

This program is designed to offer medical assistance to developing countries whose people suffer from epidemic or endemic diseases, and emphasizes cooperation in the bettering of the citizens through the improvement of public hygiene and environment.

4.3 Agriculture, Forestry and Fisheries Development Cooperation Program

This program intends to improve living standards through production increases in the fields of agriculture, forestry and fisheries.

The forms of assistance are technical guidance in agricultural extension centers or model extension farms; comprehensive guidance in regional infrastructure of designated project areas; and assistance in enhancing the agricultural research and development capacity of recipient countries.

4.4 Industrial Development Cooperation Program

This program aims at effective utilization of locally available natural or human resources for the development of various mining and manufacturing industries which will expand employment opportunities.

5. Development Survey Program

The "Development survey program" is an advisory service which dispatches survey teams to development projects in the public sector.

6. Development Cooperation Program

JICA offers long-term and low-interest loans to Japanese corporations (including foreign corporations financed by Japanese firms) which require funds for improvement and expansion of facilities, or funds for experimental projects to promote development in various sectors.

7. Japan Overseas Cooperation Volunteers Program

This program is designed to promote and assist the cooperation extended by Japanese young people for the socio-economic progress of developing countries.

The sector covered by this program has a wide range and includes agriculture, forestry and fisheries, civil engineering and construction, health and hygiene, mining and manufacturing and even education, sports and other fields.

Table 1. Total Expenditures by Program

Upper figure: 1,000 Yen
Lower figure: U.S.\$1,000

| Program | Total F.Y.1954-F.Y.1978 ¹⁾ | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982 ²⁾ | Cumulative Total ²⁾ |
|---|--|---------------------|---------------------|---------------------|-------------------------|--------------------------------|
| 1. Training Program | 1,861,682 6,668 | 343,140 1,566 | 327,716 1,445 | 385,671 1,749 | 489,472 1,965 | 3,407,681 13,393 |
| 2. Expert Assignment Program | 926,567 3,305 | 158,080 721 | 228,121 1,006 | 383,527 1,739 | 277,492 1,114 | 1,973,787 7,885 |
| 3. Equipment Supply Program | 145,292 499 | 30,787 140 | 21,854 96 | 35,486 161 | 68,386 275 | 301,805 1,171 |
| 4. Overseas Technical Cooperation Center Program | 1,088,570 4,255 | 394,009 1,798 | 225,225 993 | 334,922 1,519 | 498,298 2,001 | 2,541,024 10,566 |
| 5. Health and Medical Cooperation Program | 965,710 3,326 | 122,623 560 | 135,608 598 | 173,011 785 | 280,308 1,126 | 1,677,260 6,395 |
| 6. Agriculture, Forestry and Fisheries Cooperation Program | 1,182,447 4,357 | 331,773 1,514 | 354,132 1,562 | 351,335 1,593 | 413,838 1,662 | 2,633,525 10,688 |
| 7. Industrial Development Cooperation Program | 380,625 1,506 | 180,883 825 | 138,786 612 | 58,619 266 | 49,732 200 | 808,645 3,409 |
| 8. Development Survey Program | 3,199,723 12,084 | 1,149,748 5,246 | 1,469,414 6,479 | 2,044,454 9,270 | 1,722,491 6,916 | 9,585,830 39,995 |
| 9. Development Cooperation | 240,114 886 | 45,681 208 | 14,760 65 | 49,775 226 | 41,183 165 | 391,513 1,550 |
| 10. Japan Overseas Cooperation Volunteers | 1,830,302 6,311 | 301,094 1,374 | 327,014 1,442 | 312,557 1,417 | 402,764 1,617 | 3,173,731 12,161 |
| 11. Others | 143,669 545 | 55,652 254 | 70,667 312 | 90,564 411 | 70,659 284 | 431,211 1,806 |
| Grand Total | 11,964,701 43,742 | 3,113,470 14,206 | 3,313,297 14,610 | 4,219,921 19,136 | 4,314,623 17,325 | 26,926,012 109,019 |

Note: The following exchange rates were used:

| | | | | | |
|-----------|--------------|------|--------------|------|--------------|
| 1954-1971 | ¥360.00/US\$ | 1972 | ¥308.00/US\$ | 1973 | ¥272.84/US\$ |
| 1974 | ¥291.49/US\$ | 1975 | ¥297.04/US\$ | 1976 | ¥296.50/US\$ |
| 1977 | ¥268.51/US\$ | 1978 | ¥210.47/US\$ | 1979 | ¥219.17/US\$ |
| 1980 | ¥226.79/US\$ | 1981 | ¥220.53/US\$ | 1982 | ¥249.05/US\$ |

1) F.Y. indicates the Fiscal Year of Japan which starts on April 1 every year.

2) Figures of F.Y. 1982 and Cumulative Total are provisional.

Table 2. Training Program for Overseas Participants
(Number of Philippine Participants)

Number of persons

| Sector | Total F.Y.1954–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 1. Planning and Administration | 270 | 33 | 30 | 29 | 23 | 385 |
| 2. Public Works and Utilities | 489 | 54 | 47 | 68 | 67 | 725 |
| 3. Agriculture, Forestry and Fisheries | 592 | 23 | 33 | 32 | 52 | 732 |
| 4. Mining and Industry | 309 | 33 | 33 | 37 | 39 | 451 |
| 5. Energy | 30 | – | 6 | 9 | 7 | 52 |
| 6. Commerce and Tourism | 69 | 7 | 4 | 7 | 4 | 91 |
| 7. Human Resources | 150 | 16 | 12 | 3 | 10 | 191 |
| 8. Public Health and Medicine | 214 | 16 | 23 | 17 | 19 | 289 |
| 9. Social Welfare | 13 | – | 1 | 10 | 8 | 32 |
| 10. Others | 32 | – | 1 | 4 | 8 | 45 |
| Grand Total | 2,168 | 182 | 190 | 216 | 237 | 2,993 |

* Provisional

Table 3. Expert Assignment Program ¹⁾
(Number of Japanese Experts)

Number of persons

| Sector | Total F.Y.1955–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 1. Planning and Administration | 7 (3) ²⁾ | 9 (7) | 5 (–) | 16 (16) | – (–) | 37 (26) |
| 2. Public Works and Utilities | 93 (55) | 29 (8) | 24 (8) | 43 (22) | 21 (6) | 210 (99) |
| 3. Agriculture, Forestry and Fisheries | 89 (41) | 24 (7) | 21 (2) | 10 (3) | 17 (1) | 161 (54) |
| 4. Mining and Industry | 70 (39) | 9 (4) | 11 (3) | 12 (–) | 15 (–) | 117 (46) |
| 5. Energy | – (–) | – (–) | – (–) | – (–) | 1 (1) | 1 (1) |
| 6. Commerce and Tourism | 5 (5) | – (–) | – (–) | – (–) | – (–) | 5 (5) |
| 7. Human Resources | 31 (15) | 15 (1) | 14 (3) | 4 (4) | 4 (3) | 68 (26) |
| 8. Public Health and Medicine | 74 (–) | 17 (–) | 6 (–) | 6 (–) | 11 (–) | 114 (–) |
| 9. Social Welfare | – (–) | – (–) | – (–) | – (–) | – (–) | – (–) |
| 10. Others | 5 (5) | 2 (2) | – (–) | – (–) | 2 (2) | 9 (9) |
| Grand Total | 374 (163) | 105 (29) | 81 (16) | 91 (45) | 71 (13) | 722 (266) |

* Provisional

Notes: 1) Includes number of experts of Project-Type Technical Cooperation Programs.

2) The figures in parenthesis indicate the number of experts assigned under the Independent Expert Dispatch Program.

Table 4. Japan Overseas Cooperation Volunteers Program
(Number of Japanese Volunteers)

Number of persons

| Sector | Total F.Y.1965–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 1. Planning and Administration | — | — | — | — | — | — |
| 2. Public Works and Utilities | 44 | 5 | 4 | — | 3 | 56 |
| 3. Agriculture, Forestry and Fisheries | 277 | 18 | 15 | 19 | 11 | 340 |
| 4. Mining and Industry | 50 | 3 | 4 | 9 | 16 | 82 |
| 5. Energy | 5 | — | — | — | — | 5 |
| 6. Commerce and Tourism | — | — | — | — | — | — |
| 7. Human Resources | 19 | 5 | 7 | 5 | 7 | 43 |
| 8. Public Health and Medicine | 4 | 3 | — | — | — | 7 |
| 9. Social Welfare | — | — | — | — | — | — |
| 10. Others | 16 | — | 6 | — | — | 22 |
| Grand Total | 415 | 34 | 36 | 33 | 37 | 555 |

* Provisional

Table 5. Equipment Supply Program
(Expenditures)

1,000 Yen

| Equipment | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Total* |
|---|---------------|---------------|---------------|---------------|----------------|
| 1. Forestry Products Research Equipment | 13,037 | — | — | — | 13,037 |
| 2. Flood Forecast and Alarm Equipment | 17,750 | — | — | — | 17,750 |
| 3. Educational Equipment | — | 20,662 | — | — | 20,662 |
| 4. Equipment Survey | — | 1,192 | 793 | 525 | 2,510 |
| 5. Equipment for Science Education | — | — | 26,741 | — | 26,741 |
| 6. Equipment for Fisheries Experiment | — | — | 7,952 | — | 7,952 |
| 7. Equipment for Pesticide Utilization for Plant Protection | — | — | — | 6,750 | 6,750 |
| 8. Equipment for Sewing | — | — | — | 6,986 | 6,986 |
| 9. Equipment for Shoemaking | — | — | — | 9,047 | 9,047 |
| 10. Equipment for Computerization of Irrigation Control | — | — | — | 35,922 | 35,922 |
| 11. Equipment for Foundry Engineering | — | — | — | 6,230 | 6,230 |
| 12. Books | — | — | — | 2,926 | 2,926 |
| Total | 30,787 | 21,854 | 35,486 | 68,386 | 156,513 |

* Provisional

Table 6. Project-Type Technical Cooperation Programs

Table 6.1 Overseas Technical Cooperation Center Program

| Project | Cooperation Period | Equipment Supply (1,000 Yen) | Number of Japanese Experts | Number of Counterparts |
|---|-------------------------|---------------------------------|-------------------------------|---------------------------|
| 1. National Cottage Industry Development Agency | Sept. 1966 – Sept. 1970 | 124,275 | 17 | 8 |
| 2. Transport Training Centre | Apr. 1977 – Apr. 1983 | 573,353* | 113 | 32 |
| 3. Ceramic Research & Development Centre | Jul. 1976 – Mar. 1983 | 310,897* | 39 | 32 |
| 4. Metal Casting Technology Centre | Jul. 1980 – Jul. 1984 | 31,909* | 8 | 2 |
| 5. Telecommunications Training Institute | Apr. 1981 – Apr. 1986 | 180,197* | 8 | 3 |
| 6. Integrated Research and Training Centre in the Technological University of the Philippines | Nov. 1982 – Nov. 1987 | – | 1 | – |
| 7. Philippine Human Resources Development Centre | Sep. 1982 – Sep. 1987 | – | 3 | 4 |
| Total | | 1,220,631* | 189 | 81 |

* Provisional

Table 6.2 Health and Medical Cooperation Program

| Project | Cooperation Period | Equipment Supply (1,000 Yen) | Number of Japanese Experts | Number of Counterparts |
|-------------------------------------|---|---------------------------------|-------------------------------|---------------------------|
| 1. Cholera Control | Jan. 1967 – Mar. 1974 Apr. 1974 – Mar. 1977 (Follow up) | 61,977 | 31 | -- |
| 2. Poliomyelitis Control | May 1967 – Mar. 1974 | 148,432 | 10 | – |
| 3. Schistosomiasis Control Research | Aug. 1972 – Mar. 1978 Apr. 1978 – Mar. 1981 (Follow up) | 166,630 | 64 | 22 |
| 4. Family Planning | Apr. 1974 – Mar. 1986 | 600,549* | 4 | 4 |
| 5. Institute for Tropical Medicine | Oct. 1980 – Oct. 1985 | 153,960* | 8 | 6 |
| Total | | 1,131,548* | 117 | 32 |

* Provisional

Table 6.3 Agriculture, Forestry and Fisheries Cooperation Program

| Project | Cooperation Period | Equipment Supply (1,000 Yen) | Number of Japanese Experts | Number of Counterparts |
|---|---|---------------------------------|-------------------------------|---------------------------|
| 1. Rice Production Pilot Farm Project | Jun. 1969 – Jun. 1974 1974 – 1976 (Follow up) | 228,685 | 17 | – |
| 2. Pilot Project of Cagayan Integrated Agricultural Development | Feb. 1976 – Feb. 1979 Feb. 1979 – Mar. 1984 (M/A) | 432,346* | 28 | 18 |
| 3. Afforestation Project in the Pantabangan Area | Jun. 1976 – Jul. 1987 | 625,731* | 54 | 22 |
| 4. Bohol Agricultural Promotion Centre Project | Feb. 1983 – Feb. 1988 | – | 2 | – |
| Total | | 1,286,762* | 101 | 40 |

* Provisional

Table 6.4 Industrial Development Cooperation Program

| Project | Cooperation Period | Equipment Supply (1,000 Yen) | Number of Japanese Experts | Number of Counterparts |
|---|-----------------------|---------------------------------|-------------------------------|---------------------------|
| 1. Pantabangan Pilot Forest Project | Jun. 1976 – Jun. 1978 | 174,263 | 10 | 4 |
| 2. Technical Cooperation on the Technological Development of Particle Board | Mar. 1977 – Mar. 1983 | 378,732* | 34 | 23 |
| Total | | 552,995* | 44 | 27 |

* Provisional

Table 7. Development Survey Program (Expenditures)

1,000 Yen

| Project | Total F.Y.1962–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|---|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 1. Economic and Technical Cooperation Survey (Philippines and others) | 5,586 | 1,047 | 1,394 | 1,706 | 1,133 | 10,866 |
| 2. C-3 and R-4 Road Project in Manila | 173,231 | – | – | – | – | 173,231 |
| 3. Pasig-Potorero River Flood Control and Sabo Project | 158,282 | – | – | – | – | 158,282 |
| 4. Bohol Integrated Agricultural Development Project | 122,856 | – | – | – | – | 122,856 |
| 5. North Luzon Telecommunication Network | 69,533 | – | – | – | – | 69,533 |
| 6. Topographic Mapping Project of Cagayan Valley | 42,957 | 117,895 | 135,113 | 437,029 | 198,682 | 931,676 |
| 7. Ilocos Norte Irrigation Project | 167,746 | 98,707 | 62,102 | – | – | 328,555 |
| 8. Fishing Ports Project | 34,512 | – | – | – | – | 34,512 |
| 9. Mayon Volcano Erosion Control Project | 4,101 | 79,975 | 157,923 | 2,501 | 141,599 | 386,099 |
| 10. Manila-Bataan Coastal Road, C-5 and C-6 Road Project | 41,193 | 126,918 | 310 | – | – | 168,421 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962-F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 11. Hospital Development Project | 19,146 | 62,968 | — | — | — | 82,114 |
| 12. Urban Transport Project in Davao | 3,151 | 62,578 | 174,389 | 86,534 | — | 326,652 |
| 13. Integrated Equipment Library Research Training Centre in Technology University of the Philippines | 21,039 | 18,672 | — | — | — | 39,711 |
| 14. Institute of Tropical Medicine | 20,366 | 16,747 | — | — | — | 37,113 |
| 15. Bohol Integrated Area Development | 12,470 | 85,086 | — | — | — | 97,556 |
| 16. Telecommunication Network in Central Luzon | — | 3,294 | 38,794 | 3,918 | — | 46,006 |
| 17. Matuno River Development Project | — | 6,765 | 330 | 55,057 | 185,450 | 247,602 |
| 18. Pampanga Delta and Candaba Swamp Development Project | — | 4,478 | 278,457 | 152,374 | — | 435,309 |
| 19. Training and Research Vessel for the College of Fisheries, University of the Philippines | — | 13,739 | — | — | — | 13,739 |
| 20. Indochina Refugees Processing Centre Project | — | 9,224 | — | — | — | 9,224 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962-F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 21. Development Project of Port Irene | — | — | 2,870 | 132,851 | 275 | 135,996 |
| 22. Agricultural Development Project in Mabini | — | — | 3,823 | 103,042 | 110 | 106,975 |
| 23. The Lower Cotabato River Basin Development Project | — | — | 4,211 | 1,446 | — | 5,657 |
| 24. INNOTECH Research and Training Centre | — | — | 7,130 | — | — | 7,130 |
| 25. Petrological, Minerological and Geochronological Services Laboratory Project | — | — | 13,283 | 17,548 | — | 30,831 |
| 26. Dalton Pass Tunnel Project | — | — | 19,851 | 197,451 | 238 | 217,540 |
| 27. Local Water Supply Extension Project | — | — | 5,166 | 149,025 | 28,740 | 182,931 |
| 28. Alcogas Project | — | — | 4,225 | 130,152 | 4,095 | 138,472 |
| 29. Metro Manila Outer Major Roads (Southern Package) Project | — | — | 25,794 | 145,749 | 275 | 171,818 |
| 30. Metro Manila Outer Major Roads (Northern Package) Project | — | — | — | 1,124 | 150,945 | 152,069 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|---|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 31. Rural Telecommunication Project, Region V | — | — | — | 3,874 | 5,917 | 9,791 |
| 32. Metro Manila Transportation Plan | — | — | — | 1,829 | 87,741 | 89,570 |
| 33. Improvement of Operation and Maintenance of National Irrigation Systems | — | — | — | 4,256 | 187,966 | 192,222 |
| 34. Ice Plant and Cold Storage Project | — | — | — | 4,476 | 524 | 5,000 |
| 35. Construction Project of the Philippine Social Service Centre | — | — | — | 26,298 | — | 26,298 |
| 36. Construction Project of Freshwater Aquaculture Training Centre | — | — | — | 20,020 | — | 20,020 |
| 37. Geophysical/Geological Survey Vessel Project | — | — | — | 2,443 | 18,119 | 20,562 |
| 38. San Fernando Port Development Project | — | — | — | — | 19,759 | 19,759 |
| 39. Development Project of the Meteorological Telecommunication System | — | — | — | — | 3,533 | 3,533 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 40. Panay River Basin Wide Flood Control Study | — | — | — | — | 26,833 | 26,833 |
| 41. Philippine Road Disaster Prevention Project | — | — | — | — | 2,714 | 2,714 |
| 42. Master Plan Study of the Infanta-Real Area Urban Development Project | — | — | — | — | 3,106 | 3,106 |
| 43. Construction Project of the Philippine Institute of Pure and Applied Chemistry | — | — | — | — | 28,019 | 28,019 |
| 44. Improvement Project of Philippine Refugee Processing Centre | — | — | — | — | 16,924 | 16,924 |
| 45. Pilot Project on Rural Environmental Sanitation | — | — | — | — | 2,139 | 2,139 |
| 46. Construction Project on Agricultural Promotion in Bohol | — | — | — | — | 21,982 | 21,982 |
| 47. Construction Project of Philippine Normal College Library | — | — | — | — | 11,475 | 11,475 |
| 48. Asue River Basin Agricultural Development Project | — | — | — | — | 6,021 | 6,021 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962-F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|---|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 49. Gumain River Irrigation Project | -- | -- | -- | -- | 3,498 | 3,498 |
| 50. Basic Design Study for the Project of the Centre for Rural Development through Strengthening of Agro-industrial Livelihood Activities | -- | -- | -- | -- | 35,196 | 35,196 |
| 51. Development of a Crocodile Farm | -- | -- | -- | -- | 2,447 | 2,447 |
| 52. Project Finding for Industry, Mining and Power (Philippines and others) | 706 | 795 | 471 | 384 | 503 | 2,859 |
| 53. Geological and Mineral Survey in Northwest Luzon | 443,557 | 100,230 | 203,247 | 63,181 | -- | 810,215 |
| 54. Construction of Integrated Steel Mill Plant (Mindanao Island) | 191,740 | 68,005 | -- | -- | -- | 259,745 |
| 55. Mine Tailing Disposal System in the Baguio Mining District | 58,222 | -- | -- | -- | -- | 58,222 |
| 56. Super Phosphate Fertilizer Project | 2,563 | -- | -- | -- | -- | 2,563 |
| 57. Construction of Phosphate Fertilizer Plant | 65,674 | 6,900 | -- | -- | -- | 72,574 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962-F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|-----------|-----------|-----------|------------|-------------------|
| 58. Agos River Hydro-electric Power Project | 26,598 | 118,456 | 99,698 | — | — | 244,752 |
| 59. Upper Cagayan River (Didyon Site) Hydro-electric Power Project | 109,803 | 83,660 | 33,654 | — | — | 227,117 |
| 60. Follow-up Survey (Philippines and others) | 1,195 | 797 | — | 1,429 | — | 3,421 |
| 61. Exploration and Development of Geothermal Energy in Buguias Area | — | 11,168 | 38,463 | 33,720 | — | 83,351 |
| 62. Visayas Power Interconnection Project | — | 38,332 | 31,431 | — | — | 69,763 |
| 63. EHV Transmission System Development Project in the Luzon Island | — | 9,538 | 56,192 | 4,451 | — | 70,181 |
| 64. Establishment on the Alcohol Distilleries Project | — | — | 15,811 | 58,124 | 5,332 | 79,267 |
| 65. Paper and Pulp Industry Plant | — | — | 1,531 | — | — | 1,531 |
| 66. Leyte Power Transmission Project | — | — | 39,675 | 90,978 | — | 130,653 |
| 67. Agbulu Hydro-electric Power Development Project | — | — | 6,332 | — | — | 6,332 |

* Provisional

(to be continued)

(Continued)

1,000 Yen

| Project | Total F.Y.1962–F.Y.1978 | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|--|----------------------------|------------------|------------------|------------------|------------------|-------------------|
| 68. Exploration, Development and Production of Water Dissolved Natural Gases | – | – | 7,744 | 7,443 | 2,089 | 17,276 |
| 69. Geothermal Development Project in Acupan-Itogon | – | – | – | 4,096 | 81,341 | 85,437 |
| 70. Matuno River Development (Hydro-electric Power) Project | – | – | – | 51,889 | 129,337 | 181,226 |
| 71. Survey for Collaborative Mineral Resources Exploration | – | – | – | 35,112 | 104,283 | 139,395 |
| 72. Leyte-Mindanao Inter-connection Project | – | – | – | – | 45,647 | 45,647 |
| 73. Establishment of the Powdered Activated Carbon Plants | – | – | – | – | 4,228 | 4,228 |
| 74. Bisling Coal Development Project | – | – | – | – | 3,344 | 3,344 |
| 75. Study on the Re-habilitation of Thermal Power Plants in Metro Manila | – | – | – | – | 148,564 | 148,564 |
| Others | 1,403,496 | 3,774 | – | 12,944 | 2,368 | 1,422,582 |
| Total | 3,199,723 | 1,149,748 | 1,469,414 | 2,044,454 | 1,722,491 | 9,585,830 |

* Provisional

Table 8. Development Cooperation Program
(Expenditures)

1,000 Yen

| Project | F.Y. 1979 | F.Y. 1980 | F.Y. 1981 | F.Y. 1982* | Cumulative Total* |
|---|-----------|-----------|-----------|------------|-------------------|
| 1. Basic Survey | | | | | |
| (1) Pioneer Iron Mine Development Project | 24,089 | — | — | — | 24,089 |
| (2) Castor Development Project in Mindanao Island | 2 | — | — | — | 2 |
| (3) The EAC Ferro-Silicon Project | 16,547 | 5,561 | — | — | 22,108 |
| (4) Forage Crop Cultivation Project | — | 3,508 | 2,083 | — | 5,591 |
| (5) PASAR Development Project | — | — | 23,193 | 29,425 | 52,618 |
| (6) Plantation, Development Project for Woody Energy Resources | — | — | 10,015 | 2,700 | 12,715 |
| (7) Coconut Production Development Project | — | — | 4,960 | — | 4,960 |
| (8) Vegetable Improvement and Seed Production Development Project | — | — | 3,787 | 1,791 | 5,578 |
| (9) Development Project of Lesser-Timber Species in Mindanao Island | — | — | — | 4,245 | 4,245 |
| 2. Financial Cooperation Survey | 2,405 | 2,690 | 3,583 | 3,020 | 11,698 |
| 3. Technical Guidance | 2,638 | 3,001 | 2,154 | 2 | 7,795 |
| Total | 45,681 | 14,760 | 49,775 | 41,183 | 151,399 |

* Provisional

