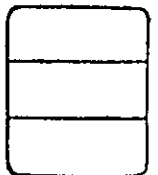


JICA'S TECHNICAL COOPERATION
IN
THE ISLAMIC REPUBLIC OF PAKISTAN

1982



Japan International Cooperation Agency



国際協力事業団	
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Introduction

The Japan International Cooperation Agency
JICA performs activities related to international

In order to implement the work smoothly among
organs, local autonomous bodies and private enterprises
in developing countries and international organizations

The following is an outline of the operations:

- (1) to extend technical cooperation to developing countries;
- (2) to carry out the work necessary for the activities of
Volunteers;
- (3) to supply funds necessary for the implementation of
development of agriculture, forestry, fisheries, etc.
- (4) to provide services necessary for smooth international
world;
- (5) to recruit and provide training to qualified personnel;
- (6) to provide new services for the implementation of

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 Type

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

Type	Total ³⁾ F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
Training Program	521,086	75,807	107,907	168,668	167,098	1,040,566
(Number of Participants)	1,662 (758)	360 (42)	492 (54)	744 (72)	758 (68)	4,016 (994)
Expert Assignment Programs ¹⁾	958,704	35,499	103,711	115,109	158,176	1,371,199
(Number of Japanese Experts)	2,801 (209)	169 (7)	473 (11)	508 (6)	717 (24)	4,668 (257)
Survey Mission	748,988	79,295	385,637	514,032	293,179	2,021,131
(Number of Mission members)	2,412 (284)	377 (28)	1,760 (40)	2,267 (58)	1,330 (114)	8,146 (524)
Equipment supply ²⁾	426,953	21,499	119,035	90,828	135,945	794,260
	1,295	102	543	400	617	2,957
Japan Overseas Cooperation Volunteers	, -	, -	, -	, -	, -	, -
(Number of Japanese Volunteers)	, - (-)	, - (-)	, - (-)	, - (-)	, - (-)	, - (-)
Others	13,873	4,577	7,720	10,403	19,023	55,596
	48	22	35	46	86	237
Grand Total	2,669,604 8,218	216,677 1,030	724,010 3,303	899,040 3,965	773,421 3,508	5,282,752 20,024

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\$

1) Includes expenditures of Project-type technical cooperation programs

2) Including expenditures of Project-type technical cooperation programs

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

Table 2. Total Expenditures by Program

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

Program	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
1. Training Program	521,086 1,662	75,807 360	107,907 492	168,668 744	167,098 758	1,040,566 4,016
2. Expert Assignment Program	857,645 2,542	32,569 155	56,064 256	22,077 98	43,361 197	1,011,716 3,248
3. Equipment Supply Program	117,900 377	19,456 93	37,131 170	73,697 325	- -	248,184 965
4. Overseas Technical Cooperation Center Program	407,065 1,170	8,757 42	99,550 454	109,286 482	245,866 1,115	870,524 3,263
5. Health and Medical Cooperation Program	2,468 8	205 0	30,594 140	956 4	843 4	35,066 156
6. Agriculture, Forestry and Fisheries Cooperation Program	9,644 28	- -	- -	- -	- -	9,644 28
7. Industrial Development Cooperation Program	- -	1,793 9	- -	977 4	8,641 39	11,411 52
8. Development Survey Program	729,371 2,353	73,236 348	383,427 1,749	511,867 2,257	279,167 1,266	1,977,068 7,973
9. Development Cooperation	- -	- -	- -	- -	- -	- -
10. Japan Overseas Cooperation Volunteers	- -	- -	- -	- -	- -	- -
11. Others	24,425 78	4,854 23	9,337 42	11,512 51	28,445 129	78,573 323
Grand Total	2,669,604 8,218	216,677 1,030	724,010 3,303	899,040 3,965	773,421 3,508	5,282,752 20,024

Note: Refer to Table 1 for exchange rates.

Table 3. Training Program for Overseas Participants
(Number of Pakistani Participants)¹⁾

Number of persons

Sector	Total F.Y.1954-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
1. Planning and Administration	104	11	14	16	13	158
2. Public Works and Utilities	209	11	20	18	16 ^(1a)	274
3. Agriculture, Forestry and Fisheries	121	6	6	8	14 ^(1a)	155
4. Mining and Industry	182	5	6	12	13	218
5. Energy	20	-	-	7	2	29
6. Commerce and Tourism	35	5	2	4	3	49
7. Human Resources	31	-	1	3	1	36
8. Public Health and Medicine	37	4	5	4	6	56
9. Social Welfare	-	-	-	-	-	-
10. Others	19	-	-	-	-	19
Grand Total	758	42	54	72	68	994

Note: 1) Includes number of participants of third country training programs.^{a)}

Table 4. Expert Assignment Program (Number of Japanese Experts)¹⁾

Number of persons

Sector	Total		F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
	F.Y.1955-F.Y.1977						
1. Planning and Administration	-	(-) ²⁾	1 (-)	- (-)	- (-)	1 (-)	2 (-)
2. Public Works and Utilities	92	(80)	5 (1)	9 (1)	3 (-)	10 (3)	119 (85)
3. Agriculture, Forestry and Fisheries	74	(74)	- (-)	- (-)	- (-)	- (-)	74 (74)
4. Mining and Industry	23	(23)	1 (1)	1 (1)	2 (2)	8 (4)	35 (31)
5. Energy	1	(1)	- (-)	- (-)	- (-)	- (-)	1 (1)
6. Commerce and Tourism	1	(1)	- (-)	- (-)	- (-)	- (-)	1 (1)
7. Human Resources	5	(3)	- (-)	- (-)	- (-)	4 (-)	9 (3)
8. Public Health and Medicine	1	(-)	- (-)	1 (-)	1 (-)	1 (-)	4 (-)
9. Social Welfare	-	(-)	- (-)	- (-)	- (-)	- (-)	- (-)
10. Others	12	(12)	- (-)	- (-)	- (-)	- (-)	12 (12)
Grand Total	209	(194)	7 (2)	11 (2)	6 (2)	24 (7)	257 (207)

Note: 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 5. Equipment Supply Program (Expenditures)

1,000 Yen

Equipment	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Total
1. Equipment for Telecommunication Training	19,456	-	-	-	19,456
2. Equipment for Telecommunication	-	11,770	-	-	11,770
3. Equipment for Leather Processing	-	25,361	28,587	-	53,948
4. Equipment for Ceramics	-	-	43,920	-	43,920
5. Equipment Survey	-	-	1,190	-	1,190
Total	19,456	37,131	73,697	-	130,284

Table 6. Project-Type Technical Cooperation Programs (Expenditures)

Table 6.1 Overseas Technical Cooperation Center Program

Project	Cooperation Period	Equipment Supply (1,000 yen)	Number of Japanese Experts	Number of Counterparts
1. Telecommunication Research Center	Nov.1963-Jun.1969	171,237	12	14
2. Central Telecommunication Research Laboratories	Mar.1979-Mar.1984	184,074	32	8
Total		355,311	44	22

Table 6.2 Industrial Development Cooperation Program

Project	Cooperation Period	Equipment Supply (1,000 Yen)	Number of Japanese Experts	Number of Counterparts
1. Modernization of Machining Technology at Pakistan Industrial Technical Assistance Center	Sep.1982-Sep.1985	-	4	-
Total		-	4	-

Table 7. Development Survey Program (Expenditures)

1,000 Yen

Project	Total F.Y.1975-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
1. Qasim Port Construction Project	223,179	-	-	-	-	223,179
2. Electrification of Karachi Suburban Railway	5,954	-	-	-	-	5,954
3. Central Telecommunication Research Laboratories Construction Project	115,056	-	-	-	-	115,056
4. Shipping and Shipbuilding Development Programme	7,722	18,824	24,880	-	-	51,426
5. Guadar Mini Port Development Project	-	47,662	134,259	107	-	182,028
6. Transportation and Support Facilities Project	-	-	3,200	352	-	3,552
7. Coastal Fishing Development Project	-	-	4,527	344	-	4,871
8. Introduction of Containerization Project	-	-	-	72,650	69,404	142,054
9. Road Construction Project	-	-	-	1,738	-	1,738
10. Economic and Technical Cooperation Survey	-	-	-	2,967	3,605	6,572

(Continued)

1,000 Yen

Project	Total F.Y.1975-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
11. Water Supply Project for Afghan Refugees	-	-	-	180,949	30,858	211,807
12. Improvement Project of Medical Equipment	-	-	-	6,700	-	6,700
13. National Transport Plan in Pakistan	-	-	-	-	124,019	124,019
14. Pakistan Railway Locomotives Supply Project	-	-	-	-	12,875	12,875
15. Agricultural Development on Widening of Pat Feeder Canal	-	-	-	-	33,034	33,034
16. Road Construction Project in Baluchistan	-	-	-	-	2,599	2,599
17. Population Welfare Program	-	-	-	-	604	604
18. Establishment of Hospital in Medical Complex in Islamabad	-	-	-	-	2,169	2,169
19. Project Finding-Mining, Industry and Power Project	981	62	-	-	-	1,043

(Continued)

1,000 Yen

Project	Total F.Y.1975-F.Y.1977	F.Y.1978	F.Y.1979	F.Y.1980	F.Y.1981	Cumulative Total
20. Lakhra Coal Mining and Power Station Project	-	6,688	196,893	219,442	-	423,023
21. Rehabilitation Plan of Special Steel Mill	-	-	19,668	26,618	-	46,286
Total	352,892	73,236	383,427	511,867	279,167	1,600,589

