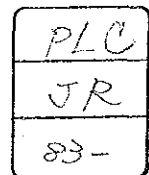
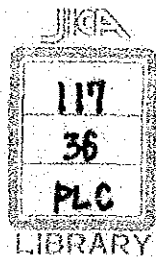


JICA'S TECHNICAL COOPERATION
IN
THE ISLAMIC REPUBLIC OF PAKISTAN

1983



Japan International Cooperation Agency



國際協力事業團		
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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 Type

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

Type	Total ³⁾ F. Y. 1954-F. Y. 1978	F. Y. 1979	F. Y. 1980	F. Y. 1981	F. Y. 1982	Cumulative Total
1. Training Program	596,893	107,907	168,668	167,098	120,559	1,161,125
(Number of Participants)	2,022 (800)	492 (54)	744 (72)	758 (68)	485 (56)	4,501 (1,050)
2. Expert Assignment Programs ¹⁾	994,203	103,711	115,109	158,176	154,676	1,525,875
(Number of Japanese Experts)	2,970 (216)	473 (11)	508 (6)	717 (24)	622 (10)	5,290 (267)
3. Survey Mission	828,283	385,637	514,032	293,179	461,975	2,483,106
(Number of Mission members)	2,789 (312)	1,760 (40)	2,267 (58)	1,330 (114)	1,855 (103)	10,001 (627)
4. Equipment supply ²⁾	448,452	119,035	90,828	135,945	61,661	855,921
	1,397	543	400	617	248	3,205
5. Others	18,450	7,720	10,403	19,023	-	55,596
	70	35	46	86	-	237
Grand Total	2,886,281 9,248	724,010 3,303	899,040 3,965	773,421 3,508	798,871 3,210	6,081,623 23,234

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) 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.1978	F.Y.1979	F.Y.1980	F.Y.1981	F.Y.1982	Cumulative Total
1. Training Program	596,893 2,022	107,907 492	168,668 744	167,098 758	121,948 490	1,162,514 4,506
2. Expert Assignment Program	890,214 2,697	56,064 256	22,077 98	43,361 197	22,699 92	1,034,415 3,340
3. Equipment Supply Program	137,356 470	37,131 170	73,697 325	- -	741 3	248,925 968
4. Overseas Technical Cooperation Center Program	415,822 1,212	99,550 454	109,286 482	245,866 1,115	166,017 667	1,036,541 3,930
5. Health and Medical Cooperation Program	2,673 8	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	37,820 152	49,231 204
8. Development Survey Program	802,607 2,701	383,427 1,749	511,867 2,257	279,167 1,266	442,824 1,778	2,419,892 9,751
9. Development Cooperation Program	- -	- -	- -	- -	4,145 17	4,145 17
10. Others	29,279 101	9,337 42	11,512 51	28,445 129	2,677 11	81,250 340
Grand Total	2,886,281 9,248	724,010 3,303	899,040 3,965	773,421 3,508	798,871 3,210	6,081,623 23,234

Note: Refer to Table 1 for exchange rates.

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

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	115	14	16	13	13	171
2. Public Works and Utilities	220	20	18	16	19	293
3. Agriculture, Forestry and Fisheries	127	6	8	14	8	163
4. Mining and Industry	187	6	12	13	9	227
5. Energy	20	-	7	2	-	29
6. Commerce and Tourism	40	2	4	3	2	51
7. Human Resources	31	1	3	1	2	38
8. Public Health and Medicine	41	5	4	6	3	59
9. Social Welfare	-	-	-	-	-	-
10. Others	19	-	-	-	-	19
Grand Total	800	54	72	68	56	1,050

Note: 1) Includes number of participants of third country training program.

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

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	1 (-) ²⁾	- (-)	- (-)	1 (-)	- (-)	2 (-)
2. Public Works and Utilities	97 (81)	9 (1)	3 (-)	10 (3)	5 (-)	124 (85)
3. Agriculture, Forestry and Fisheries	74 (74)	- (-)	- (-)	- (-)	1 (-)	75 (74)
4. Mining and Industry	24 (24)	1 (1)	2 (2)	8 (4)	4 (3)	39 (34)
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	216 (196)	11 (2)	6 (2)	24 (7)	10 (3)	267 (210)

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	F. Y. 1982	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	-	741	1,931
Total	19,456	37,131	73,697	-	741	131,025

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	200,740	29	11
Total		371,977	41	25

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	29,450	5	2
Total		29,450	5	2

Table 7. Development Survey Program (Expenditures)

1,000 Yen

Project	Total F. Y. 1975-F. Y. 1978	F. Y. 1979	F. Y. 1980	F. Y. 1981	F. Y. 1982	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	26,546	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	245	142,299
9. Road Construction Project	-	-	1,738	-	-	1,738
10. Economic and Technical Cooperation Survey	-	-	2,967	3,605	4,971	11,543

(Continued)

1,000 Yen

Project	Total F. Y. 1975-F. Y. 1978	F. Y. 1979	F. Y. 1980	F. Y. 1981	F. Y. 1982	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	186,218	310,237
14. Pakistan Railway Locomotives Supply Project	-	-	-	12,875	124,091	136,966
15. Agricultural Development on Widing of Pat Feeder Canal	-	-	-	33,034	94,529	127,563
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	31,587	33,756
19. Project Finding-Mining, Industry and Power Project	1,043	-	-	-	-	1,043
20. Lakhra Coal Mining and Power Station Project	6,688	196,893	219,442	-	-	423,023

(Continued)

1,000 Yen

Project	Total F. Y. 1975-F. Y. 1978	F. Y. 1979	F. Y. 1980	F. Y. 1981	F. Y. 1982	Cumulative Total
21. Rehabilitation Plan of Special Steel Mill	-	19,668	26,618	-	-	46,286
22. Malaria Training and Research Center Project	-	-	-	-	71	71
23. Others	-	-	-	-	1,112	1,112
Total	426,128	383,427	511,867	279,167	442,824	2,043,413

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) Fuel wood reforestation	-	-	-	4,145	4,145
Total	-	-	-	4,145	4,145

