

TECHNICAL COOPERATION
OF
JAPAN INTERNATIONAL COOPERATION AGENCY
TO
THE ISLAMIC REPUBLIC OF PAKISTAN

JANUARY, 1982



JAPAN INTERNATIONAL COOPERATION AGENCY



国際協力事業団

| | | |
|----------|------------|-----------|
| 受入 月日 | '84. 5. 22 | 117 |
| 登録No. | 06508 | 36 PLC |

I. Expenses of JICA's Technical Cooperation to Pakistan

1.1 Expenses by type

(Thousand yen)

| Type | Total F.Y.1954- F.Y.1976 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | Grand Total F.Y.1954-F.Y.1980 |
|---|-----------------------------|-----------------|----------------|-----------------|-----------------|----------------------------------|
| Training & Observation (No. of Pakistani Participants) | 415,471 (760) | 105,615 (57) | 75,807 (44) | 107,907 (59) | 168,668 (74) | 873,468 (994) |
| Expert Dispatch (No. of Japanese Experts) | 921,572 (201) | 37,132 (8) | 35,499 (7) | 103,711 (11) | 115,109 (6) | 1,213,023 (233) |
| Survey Mission Dispatch (No. of Member of Survey Mission) | 729,945 (264) | 19,043 (20) | 79,295 (28) | 385,637 (40) | 514,032 (58) | 1,727,952 (410) |
| Equipment Supply | 425,987 | 966 | 21,499 | 119,035 | 90,828 | 658,315 |
| Others | 10,386 | 3,487 | 4,577 | 7,720 | 10,403 | 36,573 |
| Total | 2,503,361 | 166,243 | 216,677 | 724,010 | 899,040 | 4,509,331 |

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1.2 Expenses by Programme

(Thousand yen)

| Programme | Total F.Y.1954- F.Y.1976 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | Grand Total F.Y.1954-F.Y.1980 |
|---|-----------------------------|----------|----------|----------|----------|----------------------------------|
| 1. Training Programme | 415,471 | 105,615 | 75,807 | 107,907 | 168,668 | 873,468 |
| 2. Expert Dispatch Programme | 820,272 | 37,373 | 32,569 | 56,064 | 22,077 | 968,355 |
| 3. Equipment Supply Programme | 117,900 | - | 19,456 | 37,131 | 73,697 | 248,184 |
| 4. Overseas Technical Cooper- ation Centre Programme | 407,065 | - | 8,757 | 99,550 | 109,286 | 624,658 |
| 5. Health and Medical Cooper- ation Programme | 1,743 | 725 | 205 | 30,594 | 956 | 34,223 |
| 6. Agriculture and Forestry Cooperation Programme | 9,585 | 59 | - | - | - | 9,644 |
| 7. Industrial Development Cooperation Programme | - | - | 1,793 | - | 977 | 2,770 |
| 8. Development Survey Programme | 710,387 | 18,984 | 73,236 | 383,427 | 511,867 | 1,697,901 |
| 9. Others | 20,938 | 3,487 | 4,854 | 9,337 | 11,512 | 50,128 |
| Total | 2,503,361 | 166,243 | 216,677 | 724,010 | 899,040 | 4,509,331 |

2. Performance of JICA's Technical Cooperation for 1977-1980 by Type

2.1 Number of Pakistani Participants

(Persons)

| Sector | Total F.Y.1954- F.Y.1976 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | Grand Total F.Y.1954-F.Y.1980 |
|--|-----------------------------|-----------|-----------|-----------|-----------|----------------------------------|
| 1. Agriculture | 92 | 12 | 6 | 7 | 9 | 126 |
| 2. Fisheries | 23 | 1 | - | - | - | 24 |
| 3. Construction | 35 | 3 | 5 | 4 | 5 | 52 |
| 4. Heavy Industries | 11 | 2 | 1 | 4 | 6 | 24 |
| 5. Mining | 3 | 1 | - | 2 | - | 6 |
| 6. Light Industries | 77 | 3 | 1 | - | 3 | 84 |
| 7. Chemical Industries | 89 | 1 | 3 | - | 3 | 96 |
| 8. Public Works | 11 | 2 | - | - | 8 | 21 |
| 9. Transportation | 56 | 1 | 1 | - | 6 | 64 |
| 10. Postal Services & Telecommunication | 113 | 11 | 7 | 16 | 9 | 156 |
| 11. Health & Welfare | 40 | 4 | 4 | 7 | 4 | 59 |
| 12. Atomic Energy | 23 | 1 | 1 | 1 | - | 26 |
| 13. Management Technology | 29 | 3 | 4 | 3 | 2 | 41 |
| 14. Education | 10 | 2 | - | - | 2 | 14 |
| 15. Administration | 102 | 7 | 9 | 15 | 13 | 146 |
| 16. Others | 46 | 3 | 2 | - | 4 | 55 |
| Total | 760 | 57 | 44 | 59 | 74 | 994 |

2.2 Number of Japanese Experts

(Persons)

| Sector | Total F.Y.1954- F.Y.1976 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | Grand Total F.Y.1954-F.Y.1980 |
|--|-----------------------------|----------|----------|----------|----------|----------------------------------|
| 1. Agriculture | 57 | 2 | - | - | - | 59 |
| 2. Fisheries | 15 | - | - | - | - | 15 |
| 3. Construction | 17 | - | - | 1 | - | 18 |
| 4. Heavy Industries | 2 | - | - | - | 2 | 4 |
| 5. Mining | 7 | - | - | - | - | 7 |
| 6. Light Industries | 10 | - | 1 | 1 | - | 12 |
| 7. Chemical Industries | 2 | 2 | - | - | - | 4 |
| 8. Public Works | 3 | - | - | - | - | 3 |
| 9. Transportation | 6 | - | - | - | - | 6 |
| 10. Postal Services & Telecommunication | 64 | 3 | 5 | 8 | 3 | 83 |
| 11. Health & Welfare | - | 1 | - | 1 | - | 2 |
| 12. Atomic Energy | - | - | - | - | - | - |
| 13. Management Technology | 1 | - | - | - | - | 1 |
| 14. Education | 5 | - | - | - | - | 5 |
| 15. Administration | - | - | 1 | - | - | 1 |
| 16. Others | 12 | - | - | - | 1 | 13 |
| Total | 201 | 8 | 7 | 11 | 6 | 233 |

2.3 Equipment Supply Programme

(Thousand yen)

| Equipment | Total F.Y.1964- F.Y.1976 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | Grand Total F.Y.1964-F.Y.1980 |
|---|-----------------------------|----------|----------|----------|----------|----------------------------------|
| 1. Television Set | 4,975 | - | - | - | - | 4,975 |
| 2. Textile Machinery | 5,040 | - | - | - | - | 5,040 |
| 3. Equipment for Water Leakage Prevention and Others | 25,907 | - | - | - | - | 25,907 |
| 4. Equipment for Telecom- munication Research Centre | 48,155 | - | - | - | - | 48,155 |
| 5. Equipment for Telecom- munication | 33,823 | - | - | - | - | 33,823 |
| 6. Equipment for Telecom- munication Training | - | - | 19,456 | - | - | 19,456 |
| 7. Equipment for Telecom- munication | - | - | - | 11,770 | - | 11,770 |
| 8. Equipment for Leather Processing | - | - | - | 25,361 | 28,587 | 53,948 |
| 9. Equipment for Ceramics | - | - | - | - | 43,920 | 43,920 |
| 10. Others | - | - | - | - | 1,190 | 1,190 |
| Total | 117,900 | - | 19,456 | 37,131 | 73,697 | 248,184 |

2.4 Outline of Project-Type Cooperations

| Project | Cooperation Period | Total Expenses Disbursed (Thousand yen) | Japanese Experts (Persons) | Pakistani Participants (Persons) |
|--|---------------------|--|-------------------------------|-------------------------------------|
| 1. Telecommunication Research Centre | Nov. 1963-Jun. 1969 | 292,780 | 12 | 14 |
| 2. Central Telecommunication Research Laboratories | Mar. 1979-Mar. 1984 | 219,439 | 16 | 4 |
| Total | | 512,219 | 28 | 18 |

Note: For the outline of Central Telecommunication Research Laboratories, see Appendix.

2.5 Development Survey Programme

(Thousand yen)

| Project | Total F.Y.1975-1976 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | 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 | 104,775 | 10,281 | - | - | - | 115,056 |
| 4. Project Finding-Mining, Industry and Power Project | - | 981 | 62 | - | - | 1,043 |
| 5. Shipping and Shipbuilding Development Programme | - | 7,722 | 18,824 | 24,880 | - | 51,426 |
| 6. Guadar Mini Port Development Project | - | - | 47,662 | 134,259 | 107 | 182,028 |
| 7. Lakhra Coal Mining and Power Station Project | - | - | 6,688 | 196,893 | 219,442 | 423,023 |
| 8. Transportation and Support Facilities Project | - | - | - | 3,200 | 352 | 3,552 |
| 9. Coastal Fishing Development Project | - | - | - | 4,527 | 344 | 4,871 |
| 10. Rehabilitation Plan of Special Steel Mill | - | - | - | 19,668 | 26,618 | 46,286 |

2.5 Development Survey Programme (continued)

| Project | Total F.Y.1975-76 | F.Y.1977 | F.Y.1978 | F.Y.1979 | F.Y.1980 | Total |
|--|----------------------|----------|----------|----------|----------|-----------|
| 11. Introduction of Containerization Project | - | - | - | - | 72,650 | 72,650 |
| 12. Road Construction Project | - | - | - | - | 1,738 | 1,738 |
| 13. Economic and Technical Cooperation Survey | - | - | - | - | 2,967 | 2,967 |
| 14. Water Supply Project for Afghahan Refugees | - | - | - | - | 180,949 | 180,949 |
| 15. Improvement Project of Medical Equipment | - | - | - | - | 6,700 | 6,700 |
| Total | 333,908 | 18,984 | 73,236 | 383,427 | 511,867 | 1,321,422 |

APPENDIX

Outline of the Central Telecommunication Research Laboratories Project

Project Title: The Central Telecommunication Research Laboratories Project

Duration: March 22, 1979 - March 21, 1984

Government Cooperating Agency: Pakistan Telegraph and Telephone Department

Project Site: Islamabad

Objectives: To conduct practical research on system and equipment of telecommunications in the fields of telephone, telegraph, radio, transmission and manufacturing, hence contributing development of telecommunication technology in the Islamic Republic of Pakistan.

