MINISTRY OF HEALTH
THE ISLAMIC REPUBLIC OF PAKISTAN

BASIC DESIGN STUDY REPORT

ON

THE PROJECT FOR IMPROVEMENT OF BASIC HEALTH CARE BY SUPPLYING ESSENTIAL EQUIPMENT/INSTRUMENTS TO BHUs AND RHCs IN BALOCHISTAN PROVINCE

IN

THE ISLAMIC REPUBLIC OF PAKISTAN

MARCH 1998

JAPAN INTERNATIONAL COOPERATION AGENCY
DAIICHI HEALTH CARE FACILITY CONSULTANTS INC.

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Preface

In response to a request from the Government of Islamic Republic of Pakistan the Government of Japan decided to conduct a basic design study on the Project for Improbement of Basic Health Care by Supplying Essential Equipment/Instruments to BHUs and RHCs in Balochistan Province in the Islamic Republic of Pakistan and entrusted the study to the Japan International Cooperation Agency (JICA).

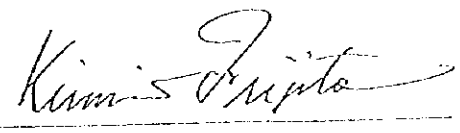
JICA sent to the Islamic Republic of Pakistan a study team from October 21 to November 19, 1997.

The team held discussions with the officials concerned of the Government of Pakistan, and conducted a field study at the study area. After the team returned to Japan, further studies were made. Then, a mission was sent to Pakistan in order to discuss a draft basic design, and as this result, the present report was finalized.

I hope that this report will contribute to the promotion of the project and to the enhancement of friendly relations between our two countries.

I wish to express my sincere appreciation to the officials concerned of the Government of Islamic Republic of Pakistan for their close cooperation extended to the teams.

March, 1998



Kimio Fujita
President
Japan International Cooperation Agency

March, 1998

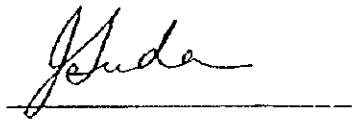
Letter of Transmittal

We are pleased to submit to you the basic design study report on the Project for Improvement of Basic Health Care by Supplying Essential Equipment/Instruments to BHUs and RHCs in Balochistan Province.

This study was conducted by Daiichi Health Care Facility Consultants Inc. , under a contract to JICA, during the period from October 9, 1997 to March 31, 1998. In conducting the study, we have examined the feasibility and retionale of the project with due consideration to the present situation of Pakistan and formulated the most appropriate basic design for the project under Japan's grant aid scheme.

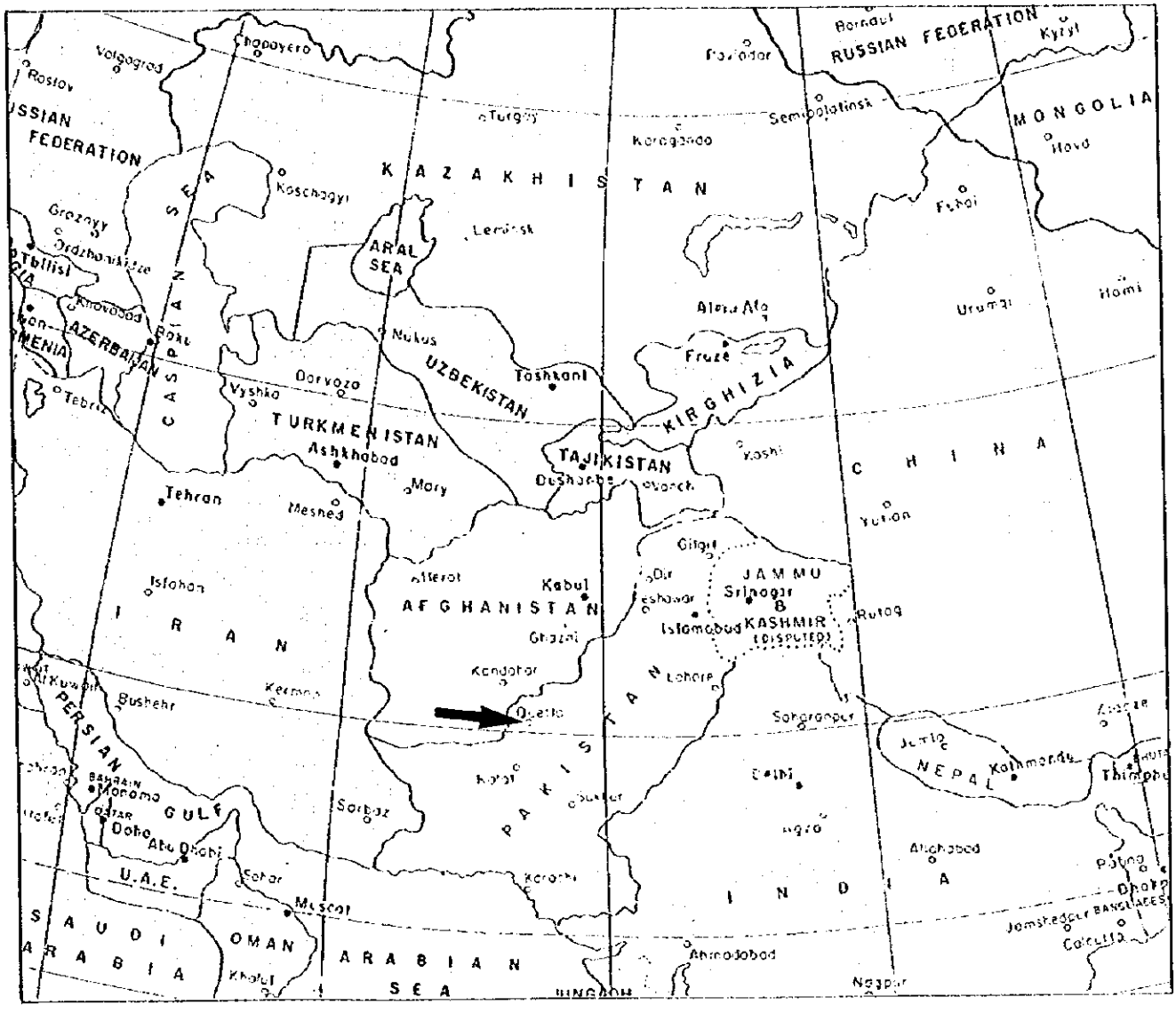
Finally, we hope that this report will contribute to further promotion of the project.

Very truly yours,



Junko Tsuda
Project Manager,
Basic Design Study Team on the Project for
Improvement of Basic Health Care
by Supplying Essential Equipment/Instruments to
BHUs and RHCs in Balochistan Province

PAKISTAN AND SURROUNDING COUNTRIES




BALOCHISTAN PROVINCE
AFGHANISTAN
IRAN
INDIA
ARABIAN SEA
Parachinor
Mirom Shoh
Wana
Qamaruddin Karez
ZHOB
Zhob
M.K.Bazar
Muslimbagh
Chaman
PISHIN
Pishin
Bostan
QUETTA
Quetta
Ziarat
Khost
Harnai
Spezand
SIBI
Sibi
Sanjawi
Duki
LORALAI
Kohlu
Barkhan
Mawand
KOHLU
Nushki
Chagai
CHAGAI
Mirjoveh
Nok Kundi
Dalbandin
KALAT
Dadhar
Bhag
Lahri
Bellpat
Kolat
KACHHI
Dera Bugti
DERA BUGTI
Gandava
D.M.Jamali
NASIRABAD
Sui
PUNJAB
Kharan
Surab
Zahri
KHARAN
Drug
Qila Ladgosht
Washuk
Khuzdar
Jacobabad
Shikarpur
Larkana
Sukkur
Khairpur
Soravan
Dovar Panoh
Wad
Panjgur
PANJGUR
KHUZDAR
SINDH
Dadu
Nowabshah
Hala
Mirpur Khas
HYDERABAD
INDUS
RIVER
Hingol
RIVER
Bela
Uthal
LASBELA
Sonmiani
Kandracha
TURBAT
Tump
Hoshab
Turbat
Dasht River
Suntsar
GWADAR
Gavater
Jiwani
Pasni
Ormara
Hab Chauki
KARACHI

Abreviations

ADB	Asian Development Bank
BHU	Basic Health Unit
CD	Civil Dispensary
E/N	Exchange of Notes
EMW	Electro-medical Workshop
DFID	Department for International Development
DHO	District Health Office
GNP	Gross National Product
IDA	International Development Association
KFW	Kreditarstatt Fur Wiederaufbau
LHV	Lady Health Visitor
LHW	Lady Health Worker
MCHC	Maternal and Child Health Center
MSD	Medical Store Depo
PHC	Primary Health Care
PHDP	Pakistan Health Care Development Project
RHC	Rural Health Centre
TBA	Traditional Birth Attendants
SAP	Social Action Programme
UNDP	United Nations Development Programme
WB	World Bank
WHO	World Health Organization

SUMMARY

The Islamic Republic of Pakistan has attained its independence in 1947 from British colonial regime, which had occupied Indo-Pakistan continent since 1876, with two separate territories towards the east (former East Pakistan) and the west (former West Pakistan) from India (In 1971, East Pakistan became independent and separate due to political and economic differences between the two Pakistans).

Pakistan economy, after the Fifth Five Year Plan (1978/79 – 1982/83) has been launched under the free economy policy, is going on the stable way in spite of the political and social uncertainty after 1989. The major export products including cotton products which occupy 60% of the export merchandise of the country depend on the international market including weather conditions, however, average GDP is 5.1% under the guidance by the World Bank and IMF after 1988. Pakistan, despite its high economic growth rate, has been suffering from low literacy rate (35% in 1990) and high population growth rate (average of the past 5 years is 3.1%), which would be obstacles of future development, and GNP per capita is US$416 (1992) and also in spite of steady improvements in health sector over the years the position is not yet satisfactory.

The area of Balochistan province occupies about 43% of the whole area of Pakistan(approx. 350,000Km2) with sparse population counting only 5.6% of the total population of Pakistan (approx. 7.4 mill in 1995). The province which composes Pakistan with other three provinces, has longitude from 61° to 70° east, and latitude from 25° to 32° north surrounded with the southern border facing Afghanistan and North West Frontier Province and the eastern border facing Punjab and Shind Provinces. Balochistan province is divided into 6 divisions, 26 districts, 58 tehsils and 55 union councils etc. Capital city of the province is Quetta, the administrative center of Balochistan, which has about 500,000 of population. Except dwellers in urban areas, most of people have nomadic life style. Majority belongs to Iranian-Balochi tribe speaking Balochi, whose original ancestors were Kurdish living in the southern Iran near Syria.

In Pakistan, provincial development plan of health care should follow national development policy designated by the central government, except province-owned projects, which are under direct control of provincial government, and subsidiary budget is allocated accordingly. The provincial government of Balochistan has been implementing the improvement of basic health care services and training of medical manpower under Five Year National Development Plan and Social Action Programme-II or SAP-II.

The Health Referral System of Pakistan is three tier as teaching and special hospital for the tertial level, Divisional Headquarter Hospital, District Headquarter Hospital, Tehsil Hospital and Civil Hospital for the secondary level, and Rural Health Center, Basic Health Unit, Maternal and Child Health Center, Civil Dispensary and Sub Health Center for the primary level. This referral system is not always functioning because of the access conditions and the unsatisfactory of the health manpower allocation of the institutions in the remote area. Such is the conditions of the facilities concerned, patients who could not attended in the primary level institutions go to the district hospitals or the teaching hospitals out of the province which are located in the good accessibility.

Most of RHCs and BHUs in the province are located in remote areas so that they face various problems such as lack of medical manpower, basic medical equipment, medicines, and fundamental infrastructure(electricity and water supply, communication facilities etc), and furthermore insufficient budget allocation from the provincial government exacerbates the situation as essential health care services are not properly provided. Considering these circumstances, the Government of Pakistan has decided to improve and strengthen primary health care services of Balochistan province as a part of primary health care development plan in accordance with the 8th Five Year National Development Plan, and made a request to the Government of Japan for her grant aid assistance for the provision of essential medical instruments / equipment for RHCs and BHUs, which is core medical institution of primary health care services at village level and suffering from the shortage of necessary medical equipment, communication equipment at union level, and information system at district level and supervisory vehicles for District Health Offices.

In response to this request, the Government of Japan dispatched preliminary study mission to Pakistan in June, 1997. The mission made the studies on the background and effect of the feasibility of the project in consideration of the relevant programmes of the country. Upon results made by the mission the Government of Japan decided to conduct a basic design study on the project for the period of October 21 to November 19, 1997. After the analysis made in Japan the draft basic design study on the project was sent to Pakistan to discuss the draft basic design report prepared by the mission for the period of January 30 to February 8, 1998. The study mission visited some BHUs and RHCs and other related institutions to study the preset conditions and to collect data.

The objectives of the Project are to improve the diagnostic and curative level of the health services for the population of the union councils by supplying essential equipment /instruments to the primary health service institutions. The target institutions are BHUs, RHCs (431 BHUs and 47 RHCs as of April, 1997) and DHOs which directly control and supervise those institutions.

Most of RHCs and BHUs in the province are located in remote areas so that they face various problems such as lack of medical manpower, basic medical equipment, medicines, and necessary facilities (electricity, water, communication), and furthermore insufficient budget allocation from the provincial government exacerbates the situation as essential health care services are not properly provided. Particularly, regarding medical manpower, it is a problem of urban-rural-gap that there are not many medical institutions where female doctors work, and in such institutions Lady Health Visitors (LHVs) or Lady Health Workers (LHWs) cover the shortage to some extent. They are visiting the homes regularly to consult for the general health check of the house wives and the babaies who are restricted to go out for this purpose due to the religious and social customs. Such outreach services include the Expanded Programme for Immunization under the Prime Minister Programme of the country/

The equipment under the project is for the provision of the essential instruments / equipment to be utilized for the services of 463 BHUs and 68 RHCs (number is as of November, 1997 and includes the upgraded institutions) and the services of the District Health Offices. The equipment planning for the project is summarized as follows in consideration of the results of the study with the officers concerned of Balochistan.

1) BHUs and RHCs should be equipped with the basic and essential equipment/instruments as the common kits by which necessary services would be provided.
2) The additional equipment should be selected according to the necessity and relevancy.
3) Allocation of the medical manpower and the yearly number of the curative patients as well as the catchment population should be taken into account for the selection of the project institutions.

According to the above criteria, 454 BHUs and 60 RHCs will be equipped with the instruments / equipment under the project. and the equipment /instruments list with its components are summarized as follows:

Equipment / Instruments List

Name of Kit	Contents of Equipment	Total Q'ty	Site
BHU / RHC			
Essential Diagnostic Kit	(1) Diagnostic Kit (2) BP Apparatus Fixed on Wall (3) Sphygmomanometer	514	BHU RHC
First Aid Kit	(1) First Aid Set	514	BHU RHC
MCHC Kit	(1) D&C Set, TBAs Kit (2) Birth Calendar (3) Treatment Set	498	BHU RHC
Delivery Kit	(1) Delivery Set	498	BHU RHC
Basic Laboratory Equipment Kit	(1) Laboratory Set	253	BHU RHC
Multi Purpose Microscope	(1) Multi Purpose Microscope	253	BHU RHC
Basic Operation Kit	(1) Basic Operation Set (2) Sterilizer	253	BHU RHC
E.N.T. Kit	(1) E.N.T. Ophthalmo Set	253	BHU RHC
Dental Instruments Kit	(1) Dental Instruments Set	253	BHU RHC
Others for BHU	(1) X-Ray Plant (300mA) (2) Generator (25-33KVA) (3) Water Filtration Tank (0.5 t)	2	BHU
RHC			
Generator (25-33KVA)		22	RHC
Spectrophotometer		30	RHC
Autoclave		35	RHC
Electric Centrifuge		30	RHC
Refrigerator		41	RHC
Operation Set	(1) Mobile Operation Lamp w/ B (2) Operation Theater Table (3) OT Instruments	33	RHC
Ambulance	(1) Box type (2) Pick up type	30	RHC DHO
Water Filtration Tank (0.5 t)		7	RHC
X-Ray Plant (300mA)	(1) X-Ray (300mA) (2) Developing System(Manual) (3) Film Illuminator (1 Film)	10	RHC
I/V Stand		45	RHC
Delivery Table		3	RHC
Basic Laboratory Equipment	(1) Incubator (2) Water Bath	9	RHC
Workshop Maintenance Tool	(1) Oscilloscope	5	EMW

External assistance agencies who have activities in the health sector of Balochistan are WB, ADB, KFW, DFID, UNICEF and WHO, among which DFID, WB and KFW are providing health manpower such as doctors, paramedical staff, ADB are supporting for the improvement of health institutions (39 RHCs and 4RHCs). Facilities for the mmaintenance of the medical equipment is managed by Electro-medical Workshop (EMW), which is under control of Provincial Health Department. EMW was established under the Third Health Project with aid assistance from ADB and DFID. Damaged equipment of public hospitals (including RHCs) is repaired by the EMW under the supervision of Balochistan Provincial Health Department and Director General Health Services. The headquarter workshop situated inside of Sandeman Provincial Hospital in Quetta, having maintenance instruments and full-time engineers provides actual repair works and conducts 6-month training courses for engineers for 4 branches of the workshop which are located in Sibi, Khuzdal, Kech and Loralai districts. Out of 2 branch workshops are not fully functioning. In case that equipment of RHCs and BHUs is out of order, and a nearby workshop branch is not functioning properly, engineers must be sent from other branches or the headquarter, resulting in long waiting time for repair. It is not always assured that sufficient spare parts are available at the workshop. Therefore, only equipment that does not need special maintenance should be selected to be procured as project equipment. As for X-ray plants, engineers appointed by the manufacturers through the Supplier will be sent to provide technical training at the time of the handing-over after installation to the local engineers working at the maintenance workshops on maintenance techniques and management. As for generators, only technical training at the time of the handing-over is to be given, while the installation is to be undertaken by Health Department of the Balochistan Government.

Most equipment to be supplied in this project are replacement of the deteriorated ones so that they do not need any additional maintenance costs and additional medical manpower for operation. Thus, consequently, no additional operating costs are required. However, it is recommendable that in order to secure constant operation of the equipment, the head of each District Health Office should be well informed about necessary items and amount of spare parts and consumables, and make a budget plan in cooperation with the Provincial Health Department. In addition, there are no particular financial concerns if it is expected that there would be an increase of incomes from users fees of laboratory examination, and governmental subsidies resulting from improved medical services with new equipment in the project institutions.

The cost to be born by the Pakistani side is roughly 1.894 million rupees (Banking commission for issuance of the Authorization to Pay; Transportation fee of the instruments / equipment from DHO to each project institutions; Training fee for the maintenance engineers) for Pakistani portion. The schedule to implement the project would require 12 months for

the detailed designing and the procurement, delivery and installation of the equipment.

The following effect will be brought through the project implementation.

1) Primary health care services will be upgraded in quantity and quality by procurement of the essential kits which will be utilized for the services of BHUs.
2) Additional equipment for RHCs will contribute to the upgradation of the diagnostic and curative level of services. In addition to this, work load of the divisional headquarter hospitals will become less if RHCs screening function is improved.
3) The procurement of ambulances will upgrade the emergency service activities in the district level as well as improve the relationship between the patients and institutions.
4) The health sector of Balochistan will be improved and the referral system of the district will be well organized.

Measures as shown below should be taken into account for the effective and continuous utilization of the project equipment

1) Monitoring on the Ambulances, X-ray Plants and Generators should be made by keeping the records of their utilization, breakdown time and running cost through which effective maintenance would be secured.
2) The replacement of the equipment should be planned after durability.
3) The spare parts and consumable should be registered on the Inventory Book to keep them in order.

CONTENTS

Chapter 1 Background of the Project

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1-1 Background of the Project

The Islamic Republic of Pakistan has attained its independence in 1947 from British colonial regime, which had occupied Indo-Pakistan continent since 1876, with two separate territories towards the east (former East Pakistan) and the west (former West Pakistan) from India (In 1971, East Pakistan became independent and separate due to political and economic differences between the two Pakistans).

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Climate is hot and dry with little rainfall. There are four seasons consisting of summer from April to September, autumn in October, winter from November to February, and spring in March.

The paved roads are not common in the south-west coastal areas which are covered with sand and the mountain area. Traffic facilities are almost underdeveloped. Transportation measures such as air plane route to and from Karachi are mostly developed. Mountain areas in the North-east are also covered by sand, where people live with stock raising. Social infrastructure such as water supply and electric supply has the gaps between the areas. Mastung, Ziarat, Pishin near Quetta and Lasbella near Karachi are rather developed.

In Pakistan, provincial development plan of health care should follow national development policy designated by the central government, except province-owned projects, which are under direct control of provincial government, and subsidiary budget is allocated accordingly. The provincial Health Department under the Health Secretary manages the tertial level hospitals such as teaching hospital and specialized hospitals, while the Director General Health Services controls 6 divisional health offices and its 26 district health offices and district headquarter hospitals.

The Health Referral System of Pakistan is three tier as educational and special hospital for the tertial level, Divisional Headquarter Hospital, District Headquarter Hospital, Tehsil Hospital and Civil Hospital for the secondary level, and Rural Health Center, Basic Health Unit, Maternal and Child Health Center, Civil Dispensary and Sub Health Center for the primary level. This referral system is not always functioning because of the access conditions and the unsatisfactory of the health manpower allocation of the institutions. Such is the conditions of the facilities concerned, patients who could not attended in the primary level institutions go to the district hospitals or the teaching hospitals out of the province which are located in the good accessibility. The accessibility to the health institutions in the rural area are shown as Table 1-under.Most of RHCs and BHUs in the province are located in remote areas so that they face various problems such as lack of medical manpower, basic medical equipment, medicines, and fundamental infrastructure(electricity, water, communication etc), and furthermore insufficient budget allocation from the provincial government exacerbates the situation as essential health care services are not properly provided. As for the female medical officers and technicians are very small in number in addition to the medical personnel allocation gap between the urban and rual areas, where LHV and LHW are providing supplementary services. These situations are explained as the religious and cultural reasons by which ladies are not so freely admitted to go out. The utilization ratio of RHC, BHU, MCHC in Balochistan is 28%, 63.3% and 60% respectively according to the Utilization of Rural Basic Health Services in Pakistan.

Table 1-1 below shows the access to health facilities in rural areas and it is easily understood that many rural inhabitants who have no private vehicles are in the difficulty to receive primary health services.

Table 1-1 Access to health facilities in rural area

(unit : %)

Public Health Institutions		Within 5 Km	Within 5-10km	More than10km
Hospital	Balochistan	6	22	72
	Whole Pakistan	15	27	58
RHC	Balochistan	17	11	72
	Whole Pakistan	33	21	45
BHU	Balochistan	36	20	44
	Whole Pakistan	39	38	23
CD	Balochistan	35	17	48
	Whole Pakistan	34	37	29

Source: Pakistan Integrated Household Survey (1995-1996)

Considering these circumstances, the Government of Pakistan has decided to improve and strengthen primary health care services of Balochistan province as a part of regional health care development plan in accordance with the 8th Five Year National Development Plan, and made a request to the Government of Japan for her grant aid assistance for the provision of essential medical equipment for RHCs and BHUs, which is core medical institutions of primary health care services at village level and suffering from the shortage of necessary medical equipment, communication equipment at local level,and information system at district level and supervisory vehicles for District Health Offices.

The objectives of the Project are to improve the diagnostic and curative level of the health services for the population of the union councils by supplying essential equipment /instruments to the primary health service providers. The target institutions are BHUs, RHCs (431 BHUs and 47 RHCs as of April, 1997) and DHOs which directly control and supervise those institutions.

1-2 Outline of the Project

Project institutions are the union level health institutions, 431BHUs and 47 RHCs (as of April 1997) and District Head Offices who supervise these institutions in the district level.

The equipment / instruments requested under the project is essential ones necessary for the provision of the primary level health service for the union people. The number of these institutions were 463 BHUs and 68 RHCs (as of November 1997) inclusive of the upgraded institutions under the health policy of the province. The following Table attached show the results on the equipment list included in PC-1 with the justification for judgement of the Equipment / Instruments by items-wise. Numbers 1 to 4 in the column Criteria to include and ones 5 to 8 in the column Criteria to exclude are put in accordance with the criteria referred in 2-2 Basic Concept of the Project hereof.

PC-1 Cord No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
Common Standard Set for BHU and RHC																		
	Essential Diagnostic Set																	
A-02	SPHYGNOMANOMETER (Mercurial) DIAGNOSTIC SET	2			○											1	○	
	Sterilizing Equipment																	
A-13	STERILIZER S/S	1													○		×	Cut since same as H-32.33
H-15	INSTRUMENT STERILIZER (36cm)	2	○													1	○	
	Minor Surgery Equipment															1	○	
A-01	INSUTRUMENT SET	2			○											1	○	
	Water Container (including purification system)	1		○												1	○	
	MCHC Equipment																	
	MCHC EQUIPMENT (D and C SET , TBAs Kit)	1			○											1	○	
A-03	GYNAECOLOGICAL EXAMINING SET				○											1	○	
A-04	TREATMENT SET				○											1	○	
A-05	OBSTETRIC DELIVERY TABLE S/S														○		×	Cut since home delivery
A-07	EXAMINING TABLES S/S											○					×	Old but already in possession
A-08	STRETCHER S/S														○		×	Low priority for BHU/RHC
A-09	X-RAY FILM ILLUMINATOR (1 FILM)					○										1	○	Necessary for X-ray
A-10	OXYGEN INHALER SET														○		×	Cut since already included in First Aid Set

PC-1 Card No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
A-12	WEIGNING SCALE FOR ADULT and INFANT				○											1	○	
	Cold Chain Equiment																	
	ICE LINE REFREGIRATOR (SMALL SIZE)	1		○								○				1	×	Cut since already supplied by UNICEF
	VACCINE CARRY	1										○					×	Cut since already supplied by UNICEF
	SMALL SOLAR REFREGIRATOR	1			○											1	○	Necessary for RHC, Elec. type
	Basic Laboratory																	
K-60	ELECTRIC CENTRIFUGE	1				○										1	○	Necessary for RHC
K-61	BURETTE STAND	1													○	1	×	No frequent use
K-62	PIPETTE RACK	1				○										1	○	
K-63	URINOMETER SET	1				○										1	○	
K-64	WIRE GAUZE , 210 × 210 mm 10 / PACK					○										1	○	
K-65	ALUBMINOMETER	1	○													1	○	
K-66	BEAKER SET	2										○					×	Already in possession
K-67	REAGENT GLASS BOTTLE SET				○											1	○	
K-68	GRADUATED CYLINDER SET											○					×	Already in possession
K-69	FUNNELS SET	1										○					×	Already in possession
K-70	SLIDE GLASS FOR MICROSCOPIC , 100 / CASE	100			○											1	○	
K-71	CENTRIFUGE TUBE , 15ml	30													○		×	Cut since included in K-60

PC-1 Cord No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
K-72	URINO CUP				○											1	○	
K-73	CHAMBER NEUBAUR (Haemacytometer)	1			○											1	○	
K-74	E.S.R. STAND WITH TUBE (20)	1	○													1	○	
K-75	HEMOGLOBINOMETER SHALI 'S WITH 10 PIPETTES	1	○													1	○	
K-76	MICROSCOPE BINOCULAR	1				○										1	○	Common use with Malaria Myoroscope
K-77	STOP WATCH														○		×	Wrist watch can cover
K-78	TABLE LABORATORY											○					×	Old but already in possession
K-79	STRIT LAMP	1				○										1	○	
K-80	TEST TUBE and HOLDERS SET	1				○										1	○	
K-81	GLUCOMETER	1												○			×	Cut since not often used
	First Aid Set	1	○													1	○	
	Communication Equipment																	
	Wireless Transceiver Set								○						○		×	Take time to get radio licensing
Additional Set for RHC																		
	Dental Equipment																	
M-01	DENTAL UNIT	1								○		○			○		×	Cut since shortage of technical staff
M-02	DENTAL INSTRUMENT SET (40 UITS)					○										1	○	
M-04	ORAL INSTRUMENT					○										1	○	

PC-1 Cord No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
M-05	LARYNGOSCOPE				○	○											×	included in A kit
	Additional Laboratory Equipment																	
	Incubator	1				○										1	○	
	Chemistry Analizer					○										1	○	included as pootrophotometer
	Water Bath	1				○										1	○	
	X-RAY Room Equipment																	
L-01	X-RAY PLANT 300 MA	1				○										1	○	
	Dark Room Equipment																	
L-02	DEVELOPING SYSTEM	1				○										1	○	Manual type
L-03	FILM ILLUMINATOR (1 FILM)	2				○										1	○	
	Operating Theatre Equipment																	
H-01	INSUTRUMENTS TRAL WITH COVER (45 cm)														○		×	Cut since only minor operation
H-02	TRAY KINDENY SHAPED (L / M / S)														○		×	Included in MCHC equipment
H-03	BOWLS (21 cm)														○		×	Included in H-04
H-04	BASIN (36 cm)														○		×	Included in H-22 Delivery Set
H-05	JUG (M)											○					×	Already in possession
H-06	PROBE 188 mm				○											1	○	Already in possession
H-07	FORCEPS ARTERY MESQUITE STR				○											1	○	Already in possession

PC-1 Cord No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
	(3 KINDS DIFFERENT SET)																	
H-08	SCISSORS DRESSING STR					○										1	○	Already in possession
H-09	NEEDLE HOLDER MAYO - HEGAR 200 mm														○		×	Included in H-22 Delivery Set
H-10	NEEDLE SUTURE , STRAIGHT and CURVED					○										1	○	Already in possession
H-11	CUSCO' S VAGINAL SPECULUM S / M / L											○			○		×	Included in A-04
H-12	SPONGE HOLDER FORCEPS 245 mm											○					×	Already in possession
H-13	VALSELLUM FORCEPS														○		×	Already in possessed
H-14	DILATOR SET HEGAR (SPT OF 20 PCS)														○		×	Included in MCHC Equipment
H-16	SALINE INFUSION STAND														○		×	Cut since same as I/V stand
H-17	OXYGEN THERAPY UNIT														○		×	Included in First Aid Set
H-18	PORTABLE SUCTION UNIT													○			×	Cut since need spare parts
H-19	PELVIMETER														○		×	Included in A-03
H-20	CHEATLE STERILIZER											○					×	Already in possession
H-21	SPONGE HOLDING FORCEPS											○					×	Already in possession
H-22	DELIVERRY SET				○											1	○	
H-23	AIRWAY (SET OF 4 PCS)														○		×	Common use with First Aid Set
H-24	CHEEK RETRACTOR ORINGER and MOUTH GOUGE											○					×	Already in possession
H-25	SWAB HOLDERS KEAUSE											○					×	Already in possession

PC-1 Card No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Other	Planned Q'ty	Results	
H-26	TONGUE HOLDING FORCEPS											○					×	Already in possession
H-27	PEAN FORCEPS 188 mm					○										1	○	
H-28	VOLKMANNS SPOON (DOUBLE ENDEDD)	3										○					×	Already in possession
H-29	BONE SAW	1									○						×	No frequent use
H-30	OPERATION THEATRE TABLE	1				○										1	○	Stand type
H-31	OPERATION THEATRE CEILING LAMP	1		○												1	○	Mobile type
H-32	AUTOCLAVE (W / BOILER) MEDIUM					○										1	○	
H-33	ELECTRIC STERILZER (40 cm)	1													○		×	Cut since same as A-13,H/32
H-35	SUCKER MACHINE	1									○			○		1	○	Cut since need spare parts
H-36	DIATHERMY SET										○						×	Cut since need technical skill
H-37	DRESSING DRUMS														○		×	Cut sice low frequent use
H-38	INSTRUMENT TRAY														○		×	Cut sice low frequent use
H-39	PROCTO SCOPE											○					×	Already in possession
H-40	RUBBER CATHETER (NELATON) EACH SIZE											○					×	Already in possession
H-41	METAL CATHETER SET					○										1	○	Included in MCHC equipment
H-42	DISSECTION FORCEPS 130mm														○		×	Included in MCHC equipment
H-43	DRESSING TRAY														○		×	Cut since low frequenot use

PC-1 Cord No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
	Labor Room Equipment																	
H-44	DELIVERY TABLE					○										1	○	FMO, LHV are required on duty
H-45	DELIVERY FORCEPS KEILAND														○		×	Included in MCHC equipment
H-46	TOWEL CLIPS														○		×	Be included in MCHC equipment
H-47	SURGICAL BLADE 10 SIZE Pkt OF 100														○		×	Included in Basic Operation Set equipment
H-48	DIAGNOSTIC SET (EYE - OPTICALSCOPE,		○													1	○	
	- ENT DIAGNOSTIC SET, BP STETHNOSCOPE																	
	HEAD LIGHT - EYE SIGHT EACH UP)																	
H-49	B. P. APPARATUS DESK					○										1	○	Change to wall type and included in A-02
H-50	PERCUSSION HAMMER					○										1	○	included in A-02
H-51	STETHSCOPE					○										1	○	Included in A-02
H-52	LUMBER PUNCTURE NEEDLE W / 4														○		×	Included in Basic Operation Set equipment
H-53	WARD EQUIPMENT																	
H-54	TEMPERATURE CHART HOLDER														○		×	Cut since office equipment
H-55	HOSPITAL BED WITH SHEET											○					×	Old but already in possession
H-56	BEDSIDE LOCKERS											○					×	Old but already in possession
H-57	SPTUM CUPS WITH COVER											○					×	Already in possession
H-58	BEDPAN WITH HANDLE											○					×	Already in possession

PC-1 Cord No.	EQUIPMENT LIST	Requested Q'ty	Criteria to include				Criteria to exclude									Final		Remarks
			1	2	3	4	1	2	3	4	5	6	7	8	Others	Planned Q'ty	Results	
H-59	URINAL MALE											○					×	Already in possession
H-60	URINAL FEMALE																×	Already in possession
	MEDICAL TROLLY														○		×	Cut since low frequency use
	I / V STAND		○													1	○	
	HISTORY SEET HOLDER														○		×	Cut since office equipment
	BP APPARATUS FIXED ON WALL'S STETHNOSCOPE					○										1	○	only sphygnomanometer included but stethoscope included in A-02
	Generator																	
N-08	GENERATOR 50 KVA	1		○												1	○	25-33KVA
	Ambulance with Oxgen and Resuscitator																	
N-11	4 WD AMBULANCE 4200 cc DIESEL 4×4	1		○													○	
	Heal Management - Information System at District Level																	
N-12	COMPUTER and PRINTERS								○								×	Not conditions to use computer data
N-13	UPS and STABILIZER								○								×	Cut since computer equipment
	Supervision and Monitoring																	
	Supervisiory Vehicles for District Health Offices																	
N-10	4 WD VEHICLE 4200 cc DIESEL 4×4														○		×	Not clear purpose of use
	MOSQUIT NET	1										○					×	Cut since priority lower
	MYCROSCOPE FOR MALARIA	1				○										1	○	

Chapter 2 Contents of the Project

Chapter 2 Contents of the Project

2-1 Objectives of the Project

Pakistan economy, after the Fifth Five Year Plan (1978/79 – 1982/83) has been launched under the free economy policy, is going on the stable way in spite of the political and social uncertainty after 1989. The major export products including cotton products which occupy 60% of the export merchandise of the country depend on the international market including weather conditions, however, average GDP is 5.1% under the guidance by the World Bank and IMF after 1988. Pakistan, despite its high economic growth rate, has been suffering from low literacy rate (35% in 1990) and high population growth rate (average of the past 5 years is 3.1%), which would be obstacles of future development. As far as looking at current situation of basic health care status of Pakistan, there is a gap between urban and rural areas in health care standard, which should be regarded as a major social and economic problem of the country. Among other provinces, the health status of Balochistan is underdeveloped as its infant mortality rate is higher than national average.

The objectives of the Project are to improve the diagnostic and curative level of the health services for the population of the union councils by supplying essential equipment /instruments to the primary health service providers. The target institutions are BHUs, RHCs (431 BHUs and 47 RHCs as of April, 1997) and DHOs which directly control and supervise those institutions

2-2 Basic Concept of the Project

The health care of Balochistan is administered mainly under the provincial jurisdiction as the central government makes a plan and the provincial government is responsible for management and supervision. Accordingly, education of medical manpower and their allocation plan, and administration of RHCs and BHUs are placed under the responsibilities of the provincial government. Secretary of Health, Provincial Health Department controls teaching hospitals, special hospitals and projects. The Director General Health Services supervise 6 Divisional Health Offices, 26 District Health Offices and District Headquarter Hospitals so that primary and secondary health care services of the provinces are under the control of Divisional Health Offices and District Health Offices.

The Health Referral System of Pakistan is three tier as educational and special hospital for the tertial level, Divisional Headquarter Hospital, District Headquarter Hospital, Tehsil Hospital and Civil Hospital for the secondary level, and Rural Health Center, Basic Health

Unit, Maternal and Child Health Center, Civil Dispensary and Sub Health Center for the primary level.

The area of Balochistan province occupies about 43% of the whole area of Pakistan (approx. 350,000 Km2) with sparse population counting only 5.6% of the total (approx. 7.4 mil., 1995). Most of RHCs and BHUs in the province are located in remote areas so that they face various problems such as lack of medical manpower, basic medical equipment, medicines, and necessary facilities (electricity, water, communication), and furthermore insufficient budget allocation from the provincial government exacerbates the situation as essential health care services are not properly provided. Particularly, regarding medical manpower, the allocation pattern of Balochistan does not seem to follow the guideline set forth by the Provincial Health Department. It is a problem of urban-rural-gap that there are not many medical institutions where female doctors work, and in such institutions Lady Health Visitors (LHVs) or Lady Health Workers (LHWs) cover the shortage to some extent.

Under these circumstances, major problems revealed to be solved are:

1. Shortage or obsoleteness of basic medical equipment in BHUs and RHCs, insufficient medical manpower, lack of essential infrastructure, and poor health care services available at village level due to obsolete facilities.
2. Health Referral System does not function properly because natural conditions surrounding BHUs and RHCs in remote area make access difficult and limited. This entails economic burden to patients, and hence consequently lessens the possibility of survival.

The basic concept of the Project is designed to address the above three problems aiming at strengthening health care program at provincial and district levels and eliminating the gap between urban and rural areas in medical standard by improving primary health care service in Balochistan. It is expected that the project will consequently contribute to the improvement of primary health care services of Balochistan with reducing maternal and infant mortality rate, and mobility rate of infectious disease.

This project being made in response to the request by the Government of Pakistan, the Government of Japan dispatched preliminary study mission to Pakistan in June, 1997. The mission made the studies on the background and effect of the feasibility of the project in consideration of the relevant programmes of the country. Upon results made by the mission the Government of Japan decided to conduct a basic design study on the project. The study mission visited some BHUs and RHCs and other related institutions to study the preset conditions and to collect data.

As a basic policy on the equipment planning, the following criteria to select equipment and exclude one are agreed with Balochistan government.

Equipment to be included in the Project is:

1) equipment to be utilized with ordinary and already established technique,
2) equipment whose Operation and Maintenance (O/M) costs can be covered by the Institution,
3) equipment required in accordance with the services of the Institution, with the uniformed standard in relation to the type of the institution,
4) equipment to be utilized within the present manpower.

Equipment to be excluded from the Project is:

1) equipment whose operation requires materials such as flon gas and causes the environmental problems,
2) equipment which may be contradictory to the regulations on the waste water / medical wastes treatment and radiation,
3) equipment whose O/M costs may exceed the financial capacity of the Institution,
4) equipment which requires substantial costs for modification of the facility,
5) equipment which requires special technology transfer for operation/utilization,
6) equipment also requested to other external assistance agencies,
7) equipment of which local agent for maintenance service is not available, and,
8) equipment with financial/marketing difficulties on the procurement of consumable and spare parts etc.

Regarding relevant facilities necessary for utilization of the equipment supplied according to the above criteria, it is agreed with Balochistan government that the following points should be taken into consideration.

Criteria to select the Project sites are summarized as follows:

1) staff allocation
2) physical facility conditions
3) medical demand
4) catchment area population

There will be no particular problems regarding facilities of project institutions since the equipment to be procured is selected according to the basic policies discussed above. Regarding medical manpower who will be responsible for utilize and maintain the equipment to be procured, there are no problems as only the equipment that can be utilized by the existing medical manpower is selected.

In considering of the above, basic concept of the Project is set to provide essential medical equipment to strengthen the health delivery system of the Province by which every people would be satisfied to have the opportunity to receive adequate basic health care services.

2-3 Basic Design

2-3-1 Design Concept

Design concept for this project is mentioned hereunder as follows.

1) Concept for natural conditions

Most of Pakistan belongs to mountain areas of Slaimans and Keeltarls leading to the border between Iran and Afghanistan, where the elevation is over 1000m and the land is covered with sand. The coastal areas along the southern border, belonging to sub-tropical dry zone, are also covered with sand. Climate is hot and dry with little rainfall. There are four seasons consisting of summer from April to September, autumn in October, winter from November to February, and spring in March. In summer, temperature goes up to 50°C and in winter down to minus 10°C in some areas. Temperature changes greatly in regions and seasons, therefore packing and transportation need special care. The equipment delivery timing shall be carefully planned and managed to avoid winter season. Dry climate conditions shall be taken note, however, equipment to comply with JIS and BS standard will be acceptable.

2) Concept for social conditions

Balochistan province is divided into 6 divisions, 26 districts, 58 tehsils and 55 unions etc. The province occupies 43% of total area of Pakistan with only 5.6% of total population. Population density is only 21 persons per Km2. Capital city of the province is Quetta, the administrative center of Balochistan, which has about 500,000 of population. Except dwellers in urban areas, most of people have nomadic life style. Majority belongs to Iranian-Balochi tribe speaking Balochi, whose original ancestors were Kurdish living in the southern Iran near Syria. They have tribal society like Patern tribe occupying North West Frontier Province. In some areas of the coastal zone in the south, Black Maclany tribal people live. The tribal problems will affect the works to be made by Japanese at the off-limit areas, for which we shall be sensible and request support both from the Home and Tribal Affairs Department and Health Department.

3) Concept for local agents and their capability and reliability

In Pakistan, some medical equipment and instruments, such as surgical instruments,

globe, operation table, bed, and dental instruments, are domestically manufactured. They are exported to overseas countries including Europe, Africa, China and Japan.
Other medical equipment is mostly imported from Japan, USA, Germany, Britain, China, Poland, and Czechoslovakia. Generator, accessories for X-ray units could be procured from the local market provided that delivery period is secured. Quantitative items, items not available locally and items whose after sales services are required will be purchased from Japan.

4) Concept for administrative capability of the executing agencies of Balochistan

Maintenance of the existing medical equipment in project institutions is managed by Electromedical Workshop (EMW), which is under control of Provincial Health Department. EMW was established under the Third Health Project with aid assistance from ADB and British DFID. Damaged equipment of public hospitals (including RHCs) is repaired by the EMW under the supervision of Balochistan Provincial Health Department and Director General Health Services. The workshop having maintenance instruments and full-time engineers provides actual repair works and conducts 6-month training courses for engineers for 4 branches of the workshop. Two out of five workshops are not functioning properly.

Table 2-1 Outline of Electromedical Workshop

	Institutions	Site	Engineer	Remarks
1.	Head Quarter	Quetta (in Sandeman Provincial Hospital)	Engineer 9 Others 3	Four engineers have been trained in Britain under British ODA.
2.	Branch	Sibi	Engineer 1	Will be functioning
3.	Branch	Khuzdar	Engineer 1 Technician 3	Functioning
4.	Branch	Turbat	Engineer 1 Technician 3	Functioning
5.	Branch	Loralai	Engineer 1	Will be functioning

In case that equipment of RHCs and BHUs is out of order, and a nearby workshop branch is not functioning properly, engineers must be sent from other branches or the headquarter, resulting in long waiting time for repair. It is not always assured that sufficient spare parts are available at the workshop. Therefore, only equipment that does not need special maintenance should be selected to be procured as essential equipment.

As for X-ray plant, engineers appointed by the manufacturers will be sent to provide technical training at the time of the handing-over to local engineers working at the Workshops on maintenance techniques and management. As for electric generators, only technical training at the time of the handing-over is to be given, while the installation is borne by Balochistan Health Department.

Supply/delivery system of Medical Equipment, Consumables and Medicine

Procurement and supply of medical equipment, consumables and medicines are managed by Medical Store Depot (MSD) under Provincial Health Department. Each District Health Office procures all necessary medical materials and medicines and distributes for relevant BHUs and RHCs from MSD twice a year within the budget given from the Provincial Health Department. Therefore, medical equipment, medicines and consumable (i.e. X-ray films) and fuel (diesel oil etc.) are provided from District Health Offices to BHUs and RHCs. During the survey, it was found that necessary medical consumables and medicines are sufficiently and properly procured and maintained at MSD, and no particular problems are found.

5) Concept for grade of the Equipment to be procured

The Basic Concept of the Project mentioned already, would be reflected for the planning of the level, grade and specifications of the Equipment after consideration of the needs of medical services (yearly number of patients, population of catchment area), the quality and quantity of medical manpower working at the project institutions.

6) Concept for implementation period

It is expected that 12 months would be necessary to implement the project after the signing of the Exchanging of Notes between Pakistan and Japan. The overall Project implementation schedule is shown as the Project Implementation Schedule in 3-1-6 Implementation Schedule hereof.

7) Concept for transportation

Equipment /Instruments will be brought by ocean vessel(s) to Karachi port, and inland transportation therein will be made by vehicles as follows:

① Instruments and Equipment: 26 District Head Offices
② X-ray which requires installation : 10 RHCs and 2 BHUs
③ Ambulances: to be delivered at Quetta

2-3-2 Basic Design

(1) Overall plan

The land area of Balochistan province is large, where 431 BHUs and 47 RHCs (as of April 1997) are dispersed in 26 districts in 6 divisions (Kalat, Kcich, Nasirabad, Quetta, Sibi, and Zhob). They provide primary health care services. BHU is the terminal health service institution that covers from 4000 to 5000 population in a village, while RHC as an upper institution affiliating 4 to 5 BHUs covers from 15,000 to 20,000 catchment population.

Based on the above consideration, a mission has conducted a survey to grasp medical services and existing equipment of the institutions, and maintenance system of medical equipment by discussing with relevant officials of Balochistan government and visiting project sites. It could not visit some off-limits areas due to security reason, and desert areas in the south due to bad conditions of access roads, however, the mission visited 25 BHUs, 22 RHCs, 5 CD, 6 public hospitals including provincial hospitals, and 20 District Health Offices. According to a provincial health care program, 2 CD and 1 BHU will be upgraded to BHU and RHC respectively every year in each district so that the number of BHU and RHC will increase accordingly.

Interviews to the institutions for the study of manpower allocation, conditions of the existing medical equipment, and physical facilities such as water supply, drainage, electricity and communication system were made. Not only from interviews but also documents collected by the Team from District Health Offices, general information could be obtained including roles of the project institutions, staff allocation, size of beneficiary, and accessibility. The equipment plan was made from the data and information and the analysis made from them.

(2) Equipment / Instruments Planning

In accordance with the design concepts for the selecting equipment as referred already, essential instruments/equipment for BHUs and RHCs are planned. Additional equipment for BHUs and RHCs are planned also. While, the criteria to select project institutions are as shown in 4) below;

1) Equipment planning

Equipment planning was made according to the necessity and relevancy, which were categorized as follows;

* Kit comprising of the essential diagnosis items, MCHC items, basic laboratory items for both BHUs and RHCs is planned as shown in Table 2-2,
* Equipment necessary to be replaced by the existing X-ray Plant, ambulance, generator etc. for BHUs and/or RHCs are planned as shown in Table 2-3,
* Basic laboratory equipment, autoclave, centrifuge, refrigerator, operation set, water filtration tank, IV stand, delivery table, incubator and water bath for RHCs are planned as shown in Table 2-3.

2) Selection criteria of Kits and Instruments packages for BHUs and RHCs

The Instruments planned in accordance with above 1) is categorized into 3 packages. The selection has made according to the staff availability as shown in the table 3-4. The institution must have at least one of the following essential medical staff to receive Instruments package and further consideration is made according to the quality level of medical services and the completeness of medical manpower. The institutions whose staff is not confirmed are made according to the number of yearly

patients and/or catchment area population of the institutions.

Table 2-2 Instruments Package Criteria

Kit	Composition of Kit	Essential Medical Man-Power						Instruments Package		
		MO	MMT	FMT	LHV	COMP	DAI	1	2	3
A	1) Essential Diagnostic Kit 2) First Aid Kit		○			○		●	◎	○
B	3) MCH Kit 4) Delivery Kit			◎	◎		◎	●	◎	
C	5) Basic Laboratory Equipment Kit 6) Multi Purpose Microscope 7) Basic Operation Kit 8) E.N.T. Kit 9) Dental Instruments Kit	●						●		

Abbreviation : MO : Medical Officer
MMT : Male Medical Technician
FMT : Female Medical Technician
LHV : Lady Health Visitor or Lady Health Worker
COMP: Compounder
DAI : Dai or Traditional Birth Attendant

3) Selection criteria of additional equipment for BHUs and RHCs

Additional equipment for BHUs and RHCs has planned according to the following criteria as shown Table 2-3. The equipment and instruments selected by the criteria should be provided to the institutions selected in accordance with 4) below.

Table 2-3 Criteria for Additional Equipment

Equipment Name	Criteria
Generator	1) Institutions where X-ray Plant is planned as replacement or new supply however, its electricity is unreliable. 2) Institutions who has X-ray Plant however, electricity is unreliable.
Basic Laboratory Equipment	1) Institutions where Medical Officer is on duty. 2) Institutions where electricity and water supply are available.
Autoclave	1) Institutions where Medical Officer is on duty. 2) Institutions where electricity and water supply are available.
Centrifuge	1) Institutions where Medical Officer and Laboratory Technician are on duty. 2) Institutions where electricity is available.
Refrigerator	1) Institutions where refrigerator to keep medicines is not available. 2) Institutions where electricity is available.
Operation Set	1) Institutions where Medical Officer is on duty. 2) Institutions where electricity is available.

Ambulance	Refer 6) mentioned below
Filtration Tank	1) Institutions where X-ray Plant is planned as replacement or new supply however, its water supply is unreliable.
X-ray Plant	1) Institutions where Medical Officer is on duty however, X-ray plant is not available. 2) Institutions whose X-ray plant is out of order (not repairable).
I/V Stand	1) Institutions where Medical Officer is on duty.
Delivery Table	1) Institutions where FMO、FMT and LHV are on duty.
Spectrophotometer	1) Institutions where Operation set mentioned above is planned. 2) Laboratory technician is on duty.

4) Selection criteria for Project Institutions

Selection of RHCs was made only to exclude the following RHCs. The following selection criteria was made taking into full account the current situations of BHUs and the level and medical personnel in actual position.

To be a Project institution, one of the following two conditions must be fulfilled. Any institutions that do not meet any of the conditions must be excluded.

(1) It has permanent staff of essential medical manpower
(2) It receives more than 500 patients a year.
(3) It covers the catchment area of over 2000 population considering the basic and average population of 2000 to 3000 per institution..

5) Institutions excluded

4 RHCs that have been recently upgraded under the Third Health Project supported by ADB should be excluded as they have already new buildings and equipment provided. They are:

(1) Chagai District RHC Dalbandin
(2) Loralai District RHC Makhtar
(3) Mastung District RHC Kanak
(4) Pishin District RHC Khanozai

It was confirmed that the following (1) to (3) institutions did not have permanent staff of doctors and essential medical manpower, while (4) and (5) were newly constructed with no equipment and essential medical manpower.

(1) BHU Sailana
(2) RHC Manikhawa
(3) RHC Murgha Kibzai
(4) RHC Walakram
(5) RHC Omzaah

The final equipment list includes equipment for 454 BHUs and 60 RHCs accordingly.

Institutions	Number as of April 1, 1997	Number of Institutions as of November, 1997 (time of site survey)	Numbers by Basic Study
RHC	47	68 (inclusive of upgraded institutions)	60
BHU	431	463 (inclusive of upgraded institutions)	454

6) Ambulance

Ambulances planned are mainly for replacement of the ambulance and the vehicle which are already out of order and left as it is because of nor repairable. These ambulances are to be utilized for the transfer of the emergency patients to the upper institutions and also for the health activities. Ambulance is considered as important means for regional health services. The purpose of the usage of ambulances under the conditions of the province whose emergency network system has not yet to be organized is to not to go to the accident place where emergency patients are left and to transport to the medical institutions but to just transfer the patients who have been brought by some means, to the nearest hospitals. As previously mentioned in this report, the space occupied by the province is vast, and the catchment area covered by the medical institutions are large. The criteria to select ambulance are ;

For RHCs (Replacement):

a) Availability of drivers are essential
b) Relevance such as population increase, the site is on the main road etc. and the ambulance utilization plan data.

For DHOs (New Supply):

a) Availability of drivers are essential (drivers of DHOs are alloted for the outreach services, however, emergency transfers for patients are anticipated for emergency cases)
b) Relevance such as the conditions of the districts where ambulances are required

At present, DHOs have vehicles for the National programmes such as EPI and 2nd Family Health Project. These vehicles are not equipped with ambulance use. Ambulances for DHO are planned to be used for the services upon request by BHUs and RHCs, which will be utilized in combination with the district hospitals and divisional hospital. The finalization of these ambulances has been made upon detailed consideration on the specifications, utilization plan of the regional /provincial level such as the frequency of the ambulance activities required the service distance. Necessary data is shown as Table 2-4 and 2-5 attached herewith.

Table 2-4 Ambulance Allocation Plan and Present Conditions of DHO/RHC

Figures in ( ) is part of Total Figures

NO.	Division		District	Name of DHO/RHC	No. of Facilities			Curative Care/Year('96/97)	Catchment Population(1995)	No. of Ambulance				
					BHU	RHC	Total			Out of Order	Order	Planned RHC	Planned DHO	Total
1	KALAT DIVISION	1	KALAT	KALAT	10	3	13	34,818	316,787	1	2	–	1	
				RHC ZARD MONGOCHER				(7,060)	(25,984)	1	0	1	–	4
		2	KHARAN	KHARAN	21	4	25	71,892	198,195	0	2	–	–	2
		3	KHUZDAL	KHUZDAL	19	3	22	26,030	424,450	0	3	–	1	4
		4	LASBELLA	LASBELLA	39	7	46	30,890	367,566	0	1	–	1	2
		5	MASTUNG	MASTUNG	18	1	19	55,188	200,000	2	0	–	1	1
		6	AWARAN	AWARAN	6	2	8	6,540	169,432	0	2	–	–	2
2	KEICHI DIVISION	1	GOWADAR	GOWADAR	17	4	21	102,332	160,980	1	2	–	1	3
		2	PANJGUR	PANJGUR	12	1	13	57,845	243,149	0	0	–	1	1
		3	KECH	TURBAT	24	7	31	126,678	607,628	3	1	–	1	
				RCH NASIRABAD				(17,651)	(22,160)	1	0	1	–	3
3	NASHIRABAD DIVISION	1	BOLAN	BOLAN	17	2	19		358,670	7	0	–	1	1
		2	JAFFERABAD	JAFFERABAD	26	1	27	181,498	555,557	3	3	–	1	4
		3	JHAL MAGSI	JHAL MAGSI	11	2	13	–	102,995	0	2	–	1	3
		4	NASEERABAD	NASEERABAD	15	1	16	50,000	270,327	0	0	–	1	
				RHC MIR WAH				(9,000)	(20,000)	3	0	1	–	2
4	QUETTA DIVISION	1	CHAGAI	CHAGAI	21	2	23	40,695	186,454	0	2	–	–	2
		2	PISHIN	PISHIN	26	5	31	108,969	312,227	2	0	–	1	1
		3	QUETTA	QUETTA	29	3	32	192,410	676,941	1	1	–	1	2
		4	QILA ABDULLAH	QILA ABDULLAH	20	2	22	2,019	272,221	0	0	–	1	1
5	SIBI DIVION	1	DERA BUGHTI	DERA BUGHTI	24	2	26	103,016	150,032	0	0	–	1	
				RHC BAIKER				12,947	21,338	1	0	1	–	
				RHC SUI				(21,047)	(12,964)	1	0	1	–	3
		2	KOHLU	KOHLU	21	0	21	28,772	105,050	0	3	–	1	4
		3	SIBI	SIBI	15	3	18	74,690	143,589	1	3	–	1	
				RHC SHARIGH				(10,761)	(11,168)	1	0	1	–	5
		4	ZIARAT	ZIARAT	5	4	9	32,018	34,711	1	1	–	–	
				RHC KAWAS				(5,808)	(10,000)	1	0	1	–	2
6	ZHOB DIVISION	1	BARKHAN	BARKHAN	5	0	5	–	147,599	0	1	–	1	2
		2	QILA SAIFULLAH	QILA SAIFULLAH	10	1	11	20,202	213,403	4	2	–	1	3
		3	LORALAI	LORALAI	32	3	35	47,219	562,387	3	2	–	1	
				RHC SINJAVI				(3,538)	(12,060)	1	0	1	–	4
		4	MUSA KHEL	MUSA KHEL	3	1	4	41,767	218,156	0	1	–	1	2
		5	ZHOB	ZHOB	17	4	21	31,943	344,122	2	1	–	1	2
	TOTAL	26			463	68	531			41	35	8	22	65

Table 2-5 Ambulance Service Activities in the Ambulance Planned Districts

No.	Districts	Activities by RHC				Activities by DHO				Catchment Population		Conditions of each District
		Ambulance		Patient Transfer		Outreach		Drug Transportation				
		No. of Service/Month	Distance/Service (Km)	No. of Service/Month	Distance/Service (Km)	No. of Service/Month	Distance/Service (Km)	No. of Service/Month	Distance/Service (Km)	1981	1995	
1	KALAT	10-15	230-600	8	338	3	120	1	100	209,149	316,787	2 ambulances are under services at present. This district is situated along the main road between Quetta and Karach. District hospital has 6 doctors.
2	KHUZDAL	8-12	700	12	58	2	32	1	25	276,449	424,450	3 ambulances are under services at present.This distnct is situated along the main road from Quetta to Karachi. Divisional hospital has 12 doctors. Population increase is drastic.
3	LASBELLA	10-12	320	7	109	3	59	1	80	188,139	367,566	1 ambulances is under services at present.This district is situated in adjacent of Karachi and population increase is drastic.
4	MASTUNG	4-6	180	5	100	1	30	-	-	132,044	200,000	No ambulances are in service at present.This district is situated on traffic junction between Kuetta and Karach as well as Quetta Chagai.
5	GOWADAR	8-10	240-1200	6	900	3	130	-	-	122,385	160,980	2 ambulances are in service at present. Gnadar is port city and has difficult road access to Quetta/Karachi. Air lifting is available for patient transfer. District hospital has 7 doctors.
6	PANJGUR	Ambulance not available								160,750	243,149	No ambulances are in service at present. It has difficult road access to other districts including Quetta/Karachi. Air lifting is available for patient transfer. District hospital has 9 doctors.
7	KECH	12-14	140	10	850	2	80	1	900	379,467	607,628	1 ambulance is in service at present. Population is increasing drastically. Divisional hospital has 21 doctors.
8	BOLAN	12-15	100-300	10	300	4	80	-	-	237,123	358,670	No ambulances are in service at present. This district is situated on main road between Quetta and Karach. Polulation increase is drastic. District hospital has 4 doctors.
9	JAFFERABAD	8-10	200-400	7	400	1	60	-	-	265,342	555,557	2 ambulances are in service at present. This district is situated on main road between Quetta and Karachi. Population increase is drastic. District hospital has 8 doctors.
10	JHAL MAGSI	6-8	350-600	4	450	1	110	-	-	68,092	102,995	2 ambulances are in service at present in northern part only except southern part where DHO is located. No district hospital.
11	NASEERABAD	8-10	250-400	6	350	2	120	1	90	129,112	270,327	This district is situated on main road from Quetta to Karachi and adjacent to Sindh Province. No ambulances are in service at present.
12	PISHIN	8-10	50-150	9	100	2	60	-	-	202,256	312,227	1 ambulance is in service at present. Population increase near Quetta is drastic. This district is situated on the junction between Quetta and Afghanistan, Quetta and Zhob.
13	QUETTA	4-5	50-100	5	60	1	40	-	-	381,556	676,941	Population increase is drastic, because of Quette being the Capital city. No ambulances are in service at present. Road conditions are better.
14	QILA ABDULLAH	Ambulance not available								176,341	272,221	This district is adjacent to Afghanistan and traffic road is heavy because of inflow of refugees and accidents would occur.
15	DERA BUGHTI	3-4	200-300	3	250	-	-	-	-	103,821	153,032	No ambulances are in services at present. Accidents may happen at Sui Oil Field. District hospital has 5 doctors.
16	KOHLU	5-8	500-800	4	350	2	100	1	50	71,269	105,050	No ambulances are in service at present. Patients to transfer to Punjab Province are estimated. District hospital has 6 doctors.
17	SIBI	4-8	200-300	5	150	3	50	-	-	98,482	143,589	4 ambulances are in service at present. This district is situated along main road from Quetta to Karachi and traffic accidents are estimated.
18	BARKHAN	Ambulance not available								61,686	147,599	No ambulances are ain service at present. Traffic accidents are estimated because of the district has access from Punjab Province. No district hospital.
19	QILA SAIFULLAH	6-8	100-300	4	150	-	-	-	-	138,427	213,403	1 ambulance is in service at present. Traffic accidents are estimated because this district is on the junction from Quetta to Zhob and Quetta to Loralai.
20	LORALAI	4-8	400-800	3	350	1	150	-	-	235,038	562,387	1 ambulance is in service at present. Population increase is drastic because of one of the main district in east part of province. District hospital has 16 doctors.
21	MUSA KHEL	6-8	400-600	4	350	2	150	-	-	91,174	218,156	1 ambulance is in service. Population increase is drastic because of adjacent to Punjab Province. It has no district hospital and only 1 RHC.
22	ZHOB	5-9	300-700	6	200	1	150	-	-	223,220	344,122	No ambulances are in service at present. Population increase is drastic because of this district is central area of northern part of the province and adjucent to Afghanistan. District hospital has 16 doctors.

The allocation plan is shown as under.

The priorities A/B/C are;

(A) 1st priority (30 vehicles, including 22 DHOs and 8 for RHCs)

(B) 2nd priority (25 vehicles, including 2 for DHOs and 23 for RHCs)

(C) lowest priority (20 vehicles)

Table 2-6 Allocation Plan of Ambulances

* means institutions already driver is allocated

	DISTRICT	EXISTING		REQUESTED		PRIORITY		
						A	B	C
	KALAT	3	RHC ZARD MONGCHER 1 (out of order/ not repairable) RHC SURAB 1 BHU MAND HAJI 1	2	RHC ZARD NIBGCGER 1(replacement) DHO 1 for emergency	O* O*		
	KHARAN	1	RHC LADAGASHI 1 (out of order/ not repairable)					
	KHUZDAR	3	RHC WADH 2 (1 out of order) RHC ZEEDI 1 SHORANCH	1	DHO/DHQH 1 for emergency	O*		
	LASBELLA	1	RHC BELLA 1 (out of order, not repairable)	2	BHU WINDER 1 (to be upgraded / new supply) DHO/DHQH 1 for emergency	 O*	O	
	MASTUNG	4	(2 out of order / not repairable)	3	Replacement 2 DHO/DHQH 1 for emergency	 O*	OO	
	AWARAN	2	RHC AWARAN 1 RHC MASHEY 1	2	BHU METHGO 1 (new supply) DHO /DHQH 1 for emergency		O O	
	GOWADUR	3	RHC JIWANI 1(out of order, not repairable) RHC ORMARA 1 RHC PASNI 1	3	RHC JIWANI 1(replacement) BHU SUR BANDAR 1 (to be upgraded / new supply) DHO 1 for emergency	 O*	O O	
	PANJGUR	NA		2	BHU GRAM KHAN 1 (to be upgraded / new supply) DHO 1 for emergency	 O*	O	
	KECHI	5	RHC NASIRABAD 1 (out of order, not repairable) RHC MAND 1 (out of order) RHC TUMP 1 (out of order) RHC BULEDA 1 (out of order) RHC DASHT KHUDAN 1	2	RHC NASIRABAD 1 (replacement) DHO 1 for emergency	O* O*		

	DISTRICT	EXISTING		REQUESTED		PRIORITY		
						A	B	C
	BOLAN	5	District Headquarter Hospital 2 MACH Civil Hospital 1 (out of order/ not repairable) BHAG Civil Hospital 1 (out of order/ not repairable) RHC LEHRI 1 (out of order/ not repairable)	6	MACH Civil Hospital 1 (replacement) BHAG Civil Hospital 1 (replacement) RHC LEHRI 1(replacement) RHC KHATTAN 1 (new supply) BHU BAKHTAR ABAD 1 (replacement) DHO & BHU KOLPUR 1 for emergency (new supply)	O*	O O O	O* O*
	JAFFERA-BAD	6	BHU GANDAKHA 1 (out of order, not repairable) MUHAMMAD Civil Hospital 1 (out of order/ not repairable) RHC ROHAN JAMALI 1 C/D HAIRUDIN 1 (out of order/ not repairable) BHU SOHBAT PUR 1 DHO 1 for emergency	8	MUHAMMAD Civil Hospital 1 (replacement) C/D HAIRUDIN 1 (to be upgraded to BHU/ new supply) DHO 1 for emergency 1 (replacement) BHU JANDA TALAB 1 (new supply) BHU CATTLE FARM 1 (new supply) CD MANJI PUR 1 (to be upgraded / new supply) BHU BAGH HEAD 1 (new supply) CD ZULFIQAR ABAD 1 (to be upgraded / new supply)	O*	O* O O O*	O* O O
	JHAL-MAGSI	2	RHC JHALMAGSI 1 RHC GANDAWA 1	1	DHO for emergency 1	O*		
	NASFERA-BAD	3	Divisional Headquarter Hospital 2 (out of order/ not repairable) RHC MIR WAH 1 (out of order/ not repairable)	3	DHO and Div. HQH for emergency 1(replacement) RHC MIR WAH 1 (replacement) BHU CHATTAR 1 (new supply)	O* O*		O
	CHAGAI	2	RHC DALBANDIN 1 RHC NOKUKNDI 1	1	DHO for emergency 1		O	
	PISHIN	2	RHC KHANOZAI 1 RHC BARSHORE 1 (out of order/ not repairable)	6	RHC KHANOZAI 1 (replacement) RHC BARSHORE 1 (replacement) DHO/DHQH for emergency 1(new supply) RHC ALIZAI 1 (new supply) RHC UMARABD 1 (new supply) BHU KALA BAGH BARSHOOR 1 (new supply)	O*	O O O	O O
	QUETTA	2	1 out of order / not repairable	5	RHC KICHLAK 1 (new supply) RHC SORRENG COAL MINES 1 (replacement) CD PANJPAI 1 (to be upgraded / new supply) BHU KECHI BEG 1 (to be upgraded / new supply) DHO 1(replacement)	O*	O O O	O*
	KILLA ABDULLAH	N A		1	DHO and CHAMAN Civil Hospital 1 for emergency (new supply)	O*		

	DISTRICT	EXISTING		REQUESTED		PRIORITY		
						A	B	C
	DERA BUGHTI	2	RHC BAIKER 1(out of order/ not repairable) RHC SUI 1 (out of order/ not repairable)	3	DHO/DHQH for emergency 1 (new upply) RHC BAIKER 1 (replacement) RHC SUI 1 (replacement)	O* O* O*		
	KOHLU	3	DHQH 2 (2 out of order/ not repairable) MAIWAND Civil Hospital 1 (out of order/ not repairable)	3	DHO and DHQH for emergency 2 (replacement) MAIWAND Civil Hospital 1 (replacement)	O*		O* O
	SIBI	5	HARNAI Civil Hospital 2 (1 out of order/ not repairable) DHQH 2 RHC LUNI 1	3	RHC SHARIGH 1 (replacement) CD TALLI 1 (to be upgraded / new supply) DHO 1 for emergency (new supply)	O* O*		 O
	ZIAPAT	3	RHC ZIARAT 2 (1 our of order/ not repairable) RHC KAWAS 1 (out of order/ not repairable)	3	RHC KAWAS 1 (replacement) BHU KACH 1 (to be upgraded / new supply) DHO 1 for emergency 1 (new supply)	O*	 O	 O
	BARKHAN	N A		1	DHO and Civil Hospital 1 for emergency (new supply)	O*		
	KILLA SAIFULLA H	6	(4 out of order/ not repairable) BHU KOZH KACH 1 MUSLIM BAGH Civil Hospital 1	3	RHC BADINI 1(new supply) DHO 2 for emergency (replacement)	 O*	O*	 O*
	LORALAI	6	RHC MEKHTAR 1 RHC SINJAVI 1 (out of order/ not repairable) DUKI Civil Hospital 1 ZHOB DIVHQH 3 (1 out of order/ not repairable)	5	RHC ISMAIL SHEAR 1 (new supply) C/D MANIZAI 1 (new supply) C/D WAHVI 1 (new supply) RHC SINJAVI 1 (replacement) DDHO/DHQH 1 (replacement)	 O* O*	O*	 O O
	MUSA KHEL	1	RHC MUSA KHEL 1	1	DHO for emergency 1	O*		
	ZHOB	3	(2 out of order/ not repairable)	5	RHC MANI KHAWA 1 (replacement) RHC MURGHA KIBZAI 1 (replacement) RHC WALA AKRAM 1 (new RHC) RHC OMZAAH 1 (new RHC) DHO /DHQH for emergency 1	 O*		O* O* O O
	TOTAL	71		75		30	25	20

7) Wireless Transceiver Set

The following conditions were considered for the wireless transceiver set;

a) Radio licensing application/approval

b) Future communication plan in corporation with the health delivery system and emergency network system of the province

In consideration of the above points it was decided that the wireless set be excluded from the equipment list for the Project.

The following tables show the finalization of the equipment / instruments by item-wise and institution-wise.

Table 2-7 Equipment / Instruments List

Kit	Item No.	Name of Kit	Contents of Equipment	Objectives	Total Q'ty	Site
Basic Instruments / Equipment for BHU/RHC						
A	1	Essential Diagnostic Kit	(1) Diagnostic Kit Stethoscope Hammer Sphygmomanometer(Aneroid) Laryngoscope (2) Weighing Scale for Adult Weighing Scale for Infant (3) BP Apparatus Fixed on Wall Sphygmomanometer(Mercurial)	Use for basic diagnosis like beriberi, heart beating, Blood-Pressure and weight.	514	BHU RHC
	2	First Aid Kit	(1) First Aid Set Identification Material Set Resuscitator(Infant/Adult) Foot Suction Pump Bandages and Sanitary Set Portable Case	Use for accident and disaster. Also to resuscitate on the way of transportation like in the ambulance.	514	BHU RHC
B	3	MCHC Kit	(1) D&C Set, TBAs Kit Metal Catheter Various Forceps Vaginal Speculum with Retractor (2) Gynecological Birth Calendar Obstetric Stethoscope Measuring Tape Virginal Speculum (3) Treatment Set Vaginal Forceps Virginal Speculum Tray	Use to keep mother and child health services at local area.	498	BHU RHC
	4	Delivery Kit	(1) Delivery Set Hemostasia Forceps Catheter Glycerin Enema Syringe	Use for home delivery (by TBA).	498	BHU RHC
C	5	Basic Laboratory Equipment Kit	(1) Laboratory Set Pipette Stand Clinical Refractometer Albuminometer Alcohol Lamp Micro Slide Glasses Reagent Glass	Use for basic clinical test like blood and urine test for out patient.	253	BHU RHC
	6	Multi Purpose Microscope	(1) Multi Purpose Microscope	Use for basic test of blood and to analyze malaria insect.	253	BHU RHC
	7	Basic Operation Kit	(1) Basic Operation Set Instruments Set (knife, forceps, scissors, needle) (2) Sterilizer	Use for basic operation and treatment.	253	BHU RHC
	8	E.N.T. Kit	(1) E.N.T. Ophthalmo Set Ophthalmoscope Otoscope Laryngoscope Tongue Depressor Spot light	Use for basic E.N.T. diagnosis.	253	BHU RHC
	9	Dental Instruments Kit	(1) Dental Instruments Set Pliers、Nipper etc.	Use for basic dental treatment.		BHU RHC

Kit	Item No.	Name of Kit	Contents of Equipment	Objectives	Total Q'ty	Site
	10	Others for BHU	(1) X-Ray Plant (300mA) Developing System (Manual) Film Illuminator(1 Film) (2) Generator (25-33KVA) (3) Water Filtration Tank (0.5 t)	Use for upgrading of diagnosis for BHU which have same level of doctor and X-ray facility. To be provided with generator, developing system, Film illuminator and water filtration tank.	2	BHU
Additional Equipment for RHC						
	11	Generator (25-33KVA)		Use for the keeping electricity for X-ray plant and general electrical operated medical equipment.	22	RHC
	12	Spectrophotometer		Use for the basic check for primary common diseases	30	RHC
	13	Autoclave		Use for sanitary control of operation room equipment.	35	RHC
	14	Electric Centrifuge		Use for sample test.	30	RHC
	15	Refrigerator		Use for the keeping sample, reagent and vaccine etc.	41	RHC
	16	Operation Set	(1) Mobile Operation Lamp w/ B (2) Operation Theater Table (3) OT Instruments	Use for minor operation.	33	RHC
	17	Ambulance	(1) 4WD (Box Type) (2) 4WD (Pick up Type)	Use for transportation of patients RHC to DHQH etc. and use to transport patients and to contact between RHC and DHO.	8 22	RHC DHO
	18	Water Filtration Tank (0.5 t)		Use for keeping pure water for Developing system for X-ray Plant	7	RHC
	19	X-Ray Plant (300mA)	(1) X-Ray (300mA) (2) Developing System(Manual) (3) Film Illuminator (1 Film)	Use for patient who needs x-ray examination.	10	RHC
	20	I/V Stand		Use for Infusion.	45	RHC
	21	Delivery Table		Use for delivery inside institutions	3	RHC
	22	Basic Laboratory Equipment	(1) Incubator (2) Water Bath	Use for Basic laboratory test.	9	RHC
	23	Workshop Maintenance Tool		Use for periodical and routine maintenance works	5	FM WS

(as of December, 1997)

Table 2-8 Conditions of BHUs / RHCs and Overall Equipment / Instruments

Data are put from: (1) Answers to Questionnaires received. (2) Answers collected by the Local Assistant. (3) Data provided by Health Dept. GOB.

Remarks: *: Means Sites visited. (*): Means Sites not visited but Answers for Questionnaires received. EX: Means Sites excluded by Site Survey. (EX): Means Institutions to be excluded by the Criteria to select Sites.

BHU	RHC	District Name	Name of RHC/BHU	Activity: Curative Care /Year. 1996/97	Activity: Catchment Area Population	Site Excluded	Staff Member: 1 MO	2 MMT	3 FMT	4 XRA	5 LA	6 LHV	7 DAI	8 COMP	9 DRIVER	Utility Conditions: 1.Available, 2.Out of Order,3.Not Available: X-Ray	Dental Unit	Ambulance	1.Available, 2.Available* Unreliable,3.Not Available: Elec.	Water	Tel Comm	Proposed Equipment to be Procured: Kit for BHU / RHC: A	B	C	D	Equipment for RHC: Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		KALAT	BHU BRINCH CHINA	1,838	5,189		1					1											1	1															
1		KALAT	BHU CHATTI	433	7,675			1				1	1										1	1															
	1	KALAT	BHU JOMAN	2,617	15,000								1										1	1							1								
1		KALAT	BHU MAL SHORAI	1,513	4,000							1	1																									
1		KALAT	BHU MAND HAJI *	3,052	18,000		1	2	1			1	2		1	3	3	1	2	2	3	1	1	1															
1		KALAT	BHU MOHD TAWA	3,705									1									1	1															
1		KALAT	BHU PINDARAN	1,202	15,000							1	1									1	1															
1		KALAT	BHU ROSDAR	612	12,000			1					1									1	1															
1		KALAT	BHU SIA-KUMB	512	7,000			1	1				1									1	1															
	1	KALAT	RHC SURAB	8,549			2	1			1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1			1			1	
	1	KALAT	RHC ZARD MONGOCHER *	7,060	25,964		2	1			1	1	1	2		1	1	3	2	2	3	3	1	1	1														
	1	KALAT	CD KOHING	1,593									1	1									1	1															
1		KALAT	CD MEHMOOD GOHRAM	2,132									1	1																		1						
		KALAT	DHO																																				
10	3	KALAT		34,818	109,846		6	7	2	2	2	7	14	2	2								13	13	4		1	2	2	2	3	2	1	1		2		1	
1		KHARAN	BHU BASIMA (*)	4,846	5,002		1	1	1			1			1	3	3	3		2		1	1	1														
1		KHARAN	BHU BERONT (*)					1	2				1	1		3	3	3	3	2	3	1	1	1														
1		KHARAN	BHU DAMAG (*)	3,653			1	1	1				1			3	3	3	3	2		1	1															
1		KHARAN	BHU DELLY KALLAGAN (*)	2,165				1	1							3	3	3	3	2		1	1															
1		KHARAN	BHU HURRAO (*)	3,372	2,286		1	2	2				1	1		3	3	3	3	2	3	1	1	1														
1		KHARAN	BHU HUSSAIN ZAI (*)	2,362	2,600			1	1					1		3	3	3	3	2	2	1	1															
1		KHARAN	BHU JAMAK (*)	1,911	6,000				1					1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU JANGLE (*)	2,235	3,214			1	1							3	3	3	3	2	2	1	1															
1		KHARAN	BHU JAT NAG (*)	2,117	2,500			2	1							3	3	3	3	2	2	1	1															
	1	KHARAN	BHU KHURMA GAI (*)	4,904	4,500								1	1		3	3	1	3	2	3	1	1															
	1	KHARAN	BHU KOUK (*)					2	1							3	3	3	3	2	2	1	1															
1		KHARAN	BHU KURRAQI (*)									1		1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU PASSI (*)	215	2,600									1		3	3	3	3	2	3	1																
1		KHARAN	BHU PLUN TAK (*)	3,225	12,114									1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU SALAM BEK (*)	2,795	2,600			1	1					1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU SARAGAI (*)	2,797	4,459			1	1					1		3	3	3	3	2	3	1																
1		KHARAN	BHU SHERINZA (*)	2,198	3,036									1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU SHIMSHAN (*)	2,170	4,650			1	1				1									1	1															
1		KHARAN	BHU SHIMSHI (*)	2,125	8,356				1					1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU SHINGER (*)	3,711	7,200		1		1					1		3	3	3	3	2	3	1	1	1														
1		KHARAN	BHU SIA HOZAI (*)	2,563	7,500			1	1	2				1		3	3	3	3	2	3	1	1															
1		KHARAN	BHU UL MARG (*)	1,536	2,760						1		1	1		3	3	3	3	2	3	1	1															
	1	KHARAN	RHC LADAGASHI *	11,272	9,038		1			1	1		1	1	1	1	3	1	2	2	2	1	1	1		1	1	1	1	1	1	1				1				
	1	KHARAN	CD NAG	5,254			1						1	1								1	1	1														
	1	KHARAN	CD WASHUK	4,346			1						1	1	1							1	1	1														
21	4	KHARAN		71,892	90,797		8	16	19	1	1	3	8	18	3								25	22	8		1	1	1	1	1	1	1				1			
1		KHUZDAR	BHU BADRI				1	1	1				1										1	1	1														
1		KHUZDAR	BHU GARUK	2,436	5,510			1	1				2										1	1															
1		KHUZDAR	BHU GUNI GRESHA		4,920			1	1				1										1	1															
1		KHUZDAR	BHU HAZAR GANJI	2,129	5,394			1	1				1										1	1															
1		KHUZDAR	BHU HITACHI MOOLA	2,419	2,130			1	1				1										1	1															
1		KHUZDAR	BHU KANJAR MARRI	1,725	6,000								1										1	1															
1		KHUZDAR	BHU KORARO					1	1				1										1	1															
1		KHUZDAR	BHU KORASK NALL					1	1				1										1	1															
1		KHUZDAR	BHU PARKO					1	1				1																										

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BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member									Utility Conditions						Proposed Equipment to be Procured																			
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available but Unreliable,3.Not Available			Kit for BHU / RHC				Equipment for RHC																	
				Curative Care /Year, 1998/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectro photometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filteration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool				
1		KHUZDAR	BHU PISHI WAR					1	1				1										1	1																	
1		KHUZDAR	BHU PISHI JHALL					1	1				1										1	1																	
1		KHUZDAR	BHU SAN CHAKOO				1	1	1				1										1	1																	
1		KHUZDAR	BHU SAROONA					1	1				2										1	1																	
1		KHUZDAR	BHU SHAH NOORANI					1	1				1										1	1																	
1		KHUZDAR	BHU SONARO					1	1				1										1	1																	
1		KHUZDAR	BHU WAHER					1	1				1										1	1																	
1		KHUZDAR	BHU ZEEDI	3,645	11,847				1				2										1	1																	
	1	KHUZDAR	RHC WADH *	853	20,000		1	1	1	1	1	1		1		2	3	1	1	1	1	1	1	1		1	1	1	1	1			1	1	1	1	1					
	1	KHUZDAR	RHC ZEHRI	7,615	35,000		1	1		2	2		1	3		1	3	1	1	1	3	1	1	1		1	1	1	1	1			1								
1		KHUZDAR	CD MISMK	1,974									1	1								1	1																	
	1	KHUZDAR	SH NAIL	600																																				
1		KHUZDAR	SH ORNACH *	2,664	22,000		1	1					1		1	3	3	1	3	2	3	1	1	1							1										
		KHUZDAR	DHO																																					
		KHUZDAR	EMWS																																					1
19	3	KHUZDAR					5	18	17	3	3	1	23	4	2							22	22	5		2	2	2	2	2	1		1	2	1	2	1				
1		LASBELLA	BHU ALLANA GADOR	1,100	3,000		1						1	1								1	1	1																
1		LASBELLA	BHU BHIRA				1	1	1				1									1	1	1																
1		LASBELLA	BHU DAM				1	1	1				1									1	1	1																
1		LASBELLA	BHU DAN KATHORE		4,500		1	1	1				1									1	1	1																
1		LASBELLA	BHU DANDAJAM YOUSAF ABAD	678	4,500		1	1	1				2									1	1	1																
1		LASBELLA	BHU DUBA LIARI				1	1	1				1									1	1	1																
1		LASBELLA	BHU GACHARI	1,477	3,000			1	1				1									1	1																	
1		LASBELLA	BHU GAJARI	695	4,500			1	1				1									1	1																	
1		LASBELLA	BHU GHUNDACHA					1	1				1									1	1																	
1		LASBELLA	BHU GOTE HAJI LEEMA	1,239				1	1				1									1	1																	
	1	LASBELLA	BHU GOTH ISMAILANI	1,392	4,500			1					2									1	1																	
1		LASBELLA	BHU GOTH FIDA HUSSAIN SHAH	1,680	3,000			1	1				1									1	1	1																
1		LASBELLA	BHU GOTE ZAMAN		3,000		1	1	1				1									1	1																	
1		LASBELLA	BHU KANNER		7,800							1	2									1	1	1																
1		LASBELLA	BHU KECH KARARO	200			1	1	1				1									1	1																	
1		LASBELLA	BHU KUD KARKI		4,000			1					1									1	1	1																
1		LASBELLA	BHU LIARI				1	1					1									1	1	1																
1		LASBELLA	BHU LOHI				2						2									1	1	1																
1		LASBELLA	BHU LONG LOHAR				1	1				1	1									1	1																	
1		LASBELLA	BHU LUKE ROHIL	1,668	3,900			1	1				1									1	1																	
1		LASBELLA	BHU MANGIA	325	2,000			1					1									1	1																	
1		LASBELLA	BHU MEHMOODANI	596				1	1				1									1	1	1																
1		LASBELLA	BHU MITHRI				1	1	1				1									1	1																	
1		LASBELLA	BHU NIMANI	673	4,700		1	1	1				1									1	1	1																
1		LASBELLA	BHU ORAKI				1	1	1				1									1	1	1																
1		LASBELLA	BHU PHORE-1				1	1					1									1	1																	
1		LASBELLA	BHU PHORE-2	358				1					1									1	1	1																
1		LASBELLA	BHU PINYAN				1	1	1				1									1	1	1																
1		LASBELLA	BHU PIR BHAMBOR				1	1	1				1									1	1	1																
1		LASBELLA	BHU PLAT 113				1	1	1				1									1	1	1																
1		LASBELLA	BHU POTHA GOTH		4,710		1	1	1				1									1	1																	
1		LASBELLA	BHU ROCH KUND	276	2,560			1	1				1									1	1																	
1		LASBELLA	BHU SAND	233	2,000			1	1				1									1	1																	
1		LASBELLA	BHU THARARA	312	13,000			1	1				1									1	1																	
	1	LASBELLA	BHU UMAR GOTH	267			1	1	1				1									1	1	1																

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BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member								Utility Conditions						Proposed Equipment to be Procured																			
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available-Unreliable,3.Not Available			Kit for BHU / RHC				Equipment for RHC															
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
	1	LASBELLA	BHU WINDER *	8,766	10,000		1	1	2			1	1			3	3	3	1	2	3	1	1	1				1		1	1			1	1	1				
1		LASBELLA	BHU BAGHO GOTE PHOR			(EX)																																	
1		LASBELLA	BHU BHAWANI			(EX)																																	
	1	LASBELLA	RHC BELA *	7,293	19,163		2	3	2	1	1	1	2		2	1	1	1	1	1	3	1	1	1			1	1	1	1	1					1	1	1		
	1	LASBELLA	RHC DUREJI	600	4,095					1	1		2			3	3	3	3	2	3	1	1				1		1						1				
	1	LASBELLA	RHC GIDDANI				3			1		1	1			1	3	3	1	1	3	1	1	1			1		1						1				
	1	LASBELLA	RHC LAKHRA		39,000		2			1		1	1			3	3	3	1	1	3	1	1	1			1		1	1			1		1				
1		LASBELLA	CD MOOSANI			(EX)																																	
1		LASBELLA	CD KANRAJ			(EX)																																	
1		LASBELLA	CD SONMIANI	940																		1																	
1		LASBELLA	CD GOTH RAMZAN			(EX)																																	
		LASBELLA	DHQ																												1								
39	7	LASBELLA					29	34	30	4	2	7	46		2							41	40	24			1	4	1	5	3		1	1	2	4	1	1		
1		MASTUNG	BHU ASH KHAN RODENI	1,550	2,865		1	1	1				1									1	1	1															
1		MASTUNG	BHU BABRI	1,653	2,232		1	1	1				1									1	1	1															
1		MASTUNG	BHU BASHAM	1,522			1	1					2									1	1	1															
1		MASTUNG	BHU DASHT KUMBALA	3,899	2,232		1	1	1				1									1	1	1															
1		MASTUNG	BHU FAIZABAD	319	10,000		1	1	1				1									1	1	1															
1		MASTUNG	BHU GHULAM PRANZ	2,526	24,787		1	1	1				1									1	1	1															
1		MASTUNG	BHU ISPLANGI	1,159			1	1	1				1									1	1																
1		MASTUNG	BHU KHAD KOCHA	3,635	14,289				1				1									1	1																
1		MASTUNG	BHU KILLI PASAMD KHAN	1,622	29,934				1				1									1	1																
1		MASTUNG	BHU PRING ABAD	5,605	6,402		1	1	1				1									1	1	1															
1		MASTUNG	BHU SHEREENAB	1,186				1	1				2									1	1																
1		MASTUNG	BHU SORGAZ	3,177	4,000		1		1				2									1	1	1															
1		MASTUNG	BHU TAKARI ABDUL KARIM DIGARI	427			1	1	1				1									1	1	1															
1		MASTUNG	BHU ZARKHOO	3,645	7,000		1		1				1									1	1	1															
	1	MASTUNG	RHC KANAK *	11,847	19,343	EX	2					1	3		1	1	1	2	1	3	3																		
1		MASTUNG	CD DRINGER	4,778			1						1	1	1							1	1	1															
1		MASTUNG	CD KILLI MOHAMMAD SHAHI *	942			1						1	1	1							1	1	1															
1		MASTUNG	CD MASTUNG ROAD	2,269			1						1	1	1							1	1	1															
1		MASTUNG	CD SPEZAND	3,427	10,000		1		1				1	1	1	3	3	3	2	2	3	1	1	1															
		MASTUNG	DHQ																													1							
18	1	MASTUNG					17	9	14			1	24	4	5							16	18	15															
1		AWARAN	BHU ARA JHAO										1									1																	
1		AWARAN	BHU BAGARI ZEELAGE					1					1									1	1																
1		AWARAN	BHU BAZDAR					1					1									1	1																
1		AWARAN	BHU METHGO *	6,540	10,000			2					1			3	3	3	3	3	3	1	1																
1		AWARAN	BHU NONDRA JHAO				1	1					1									1	1	1															
1		AWARAN	BHU NOOKJO					1					1									1	1																
	1	AWARAN	RHC AWARAN				1			1	1	2	1			1	3	1	3	1	3	1	1	1		1	1	1	1	1	1			1	1	1			
	1	AWARAN	RHC MASHKEY				1			1	1	3	1			3	3	1	3	1	3	1	1	1		1	1	1	1	1	1			1	1	1			
6	2	AWARAN					3	6		2	5	8										8	7	3		2	2	2	2	2	2			1	1	2			
1		GOWADUR	BHU BAN BELLAR	1,614	1,666							1	1									1	1																
1		GOWADUR	BHU BASOOL	1,660	2,223							1	1									1	1																
1		GOWADUR	BHU CHIB KALMATI	3,160	3,351							1	1									1	1																
1		GOWADUR	BHU CHIB REKANI	3,088	1,394							1	1									1	1																
1		GOWADUR	BHU GABAD	2,515	2,500							1	1									1	1																
1		GOWADUR	BHU GANZ	4,365	2,500							1	1									1	1																

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BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member									Utility Conditions						Proposed Equipment to be Procured																				
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available-Unreliable,3.Not Available,			Kit for BHU / RHC				Equipment for RHC																		
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigirator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		GOWADUR	BHU GHATTIDOOR	6,605	1,531		1					1	1									1	1	1																		
1		GOWADUR	BHU KALATOO	2,592	2,739			1				1	1									1	1																				
1		GOWADUR	BHU KALLAG	3,843	7,464		1	1				1	1									1	1	1																		
1		GOWADUR	BHU KALMAT	920	2,139		1					1	1									1	1																				
1		GOWADUR	BHU KOHCHEO	4,076	3,548			1				1	1									1	1																				
1		GOWADUR	BHU MOJO	2,459	9,563							1	1									1	1																				
1		GOWADUR	BHU NALAINT	2,626	3,773							1	1									1	1																				
1		GOWADUR	BHU PALLARY	2,229	3,126			1				1	2									1	1																				
1		GOWADUR	BHU SUNT SAR	2,512	1,593							1	1									1	1																				
	1	GOWADUR	BHU SUR BANDAR *	7,961	4,618		1					1	1			3	3	3	3	2	1	1	1	1																		
1		GOWADUR	BHU ZAHRAN	2,072	651		1	1					1									1	1	1																		
	1	GOWADUR	RHC JIWANI *	18,490	14,061		1	1			1	1	2			1	3	2	2	1	3	1	1	1		1	1	1	1	1	1			1								
	1	GOWADUR	RHC ORMARA	21,952	12,390		1			1	1		1			1	3	1	3	1		1	1	1		1	1	1	1	1	1											
	1	GOWADUR	RHC PASNI	3,620	27,633		3			2	2		2			1	3	1	3	1	3	1	1	1		1	1	1	1	1	1			1								
1		GOWADUR	CD PISHKAN	3,753									1	1								1	1									1										
		GOWADUR	DHQ																																							
17	4	GOWADUR					10	6		3	4	17	24	1								21	21	8		3	3	3	3	3	3	1		3							
1		PANJGUR	BHU BONISTAN	5,099	12,000		1	1	1				1									1	1	1																		
1		PANJGUR	BHU GAR	250	2,100								1									1	1																				
1		PANJGUR	BHU GRAM KHAN *	11,351	18,795		1					1	2	1		3	3	3	3	3	3	1	1	1																		
1		PANJGUR	BHU GWARGO	3,246	5,000			1	1				1									1	1																				
1		PANJGUR	BHU KALLAG	4,423	24,198		1	1	1				1									1	1	1																		
1		PANJGUR	BHU KATAGRARY	1,594	10,436								1									1	1																				
	1	PANJGUR	BHU KHUDABADAN *	7,144	35,000		1						1	1		3	3	3	3	3	3	1	1	1																		
1		PANJGUR	BHU PAROOM	3,246	5,000			1	1				1									1	1																				
1		PANJGUR	BHU RAHI NIGOR	663	5,000		1	1	1				1									1	1	1																		
1		PANJGUR	BHU SHAHO KEHAN	12,025	8,005		1	1					1									1	1																				
1		PANJGUR	BHU SOUR GHEEL	3,253	6,500		1	1	1				1									1	1	1																		
1		PANJGUR	CD GICHK	2,852									1	1								1	1									1										
1		PANJGUR	CD SOORDO *	2,667	17,560		1	1	1				2			3	3	3	2	3	3	1	1	1																		
		PANJGUR	DHQ																														1								
12	1	PANJGUR					6	8	7			1	15	3								13	13	8								1		1							
1		KECHI	BHU ASPI KAHN	3,100	1,935			1					1									1	1																				
	1	KECHI	BHU BAL NIGORE				1						1									1	1	1																		
1		KECHI	BHU BALGATHER				2						1									1	1	1																		
1		KECHI	BHU BISHOLI	3,059	4,219		1	2					1									1	1	1																		
1		KECHI	BHU BULLO(MAND)	6,866	13,334		1						1									1	1	1																		
1		KECHI	BHU DRABULY				1	1	1				1									1	1	1																		
1		KECHI	BHU DRACHKOO				1						1									1	1	1																		
1		KECHI	BHU GOURURD	3,537	3,800		2	1	1				1									1	1	1																		
1		KECHI	BHU GOWER KOOP	3,436	4,000								1									1	1																				
1		KECHI	BHU HIRRONK	4,005	6,000		1						1									1	1	1																		
1		KECHI	BHU HOTH ABAD	3,778	3,000		1	1	1				1									1	1	1																		
1		KECHI	BHU JUSAK *	5,105	6,727		1	2	2				1			3	3	3	1	1	1	1	1	1																		
1		KECHI	BHU KASHAP										1									1																				
1		KECHI	BHU KOHAO	5,090	2,390								1									1	1																				
1		KECHI	BHU KULAHO	3,956	1,371		1	1					1									1	1	1																		
1		KECHI	BHU KUNCHITI				2	1	1				2									1	1	1																		
1		KECHI	BHU KUNTI DAR				1						1									1	1	1																		
1		KECHI	BHU NAO ZAMURAN										1									1																				

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							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available but Unreliable,3.Not Available			Kit for BHU / RHC				Equipment for RHC																			
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigrator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filteration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		KECHI	BHU PUL AMAO	6,366	4,133		1						1									1	1	1																		
1		KECHI	BHU SAMI	4,335	10,064								1									1	1																			
1		KECHI	BHU TEHDIM ZAMRAN				1	1	1				1									1	1	1																		
1		KECHI	BHU TEHTANIGITTAN					1				1	1									1	1											1								
	1	KECHI	BHU ZARIN BUG				1						1									1	1	1										1								
	1	KECHI	RHC BULEDA				2			3	1		1			1	1	2	3	1	3	1	1	1		1	1	1	1	1	1				1							
	1	KECHI	RHC DASHT KHUDAN				2	1		1	1		1	1	1	1	3	1	3	1	3	1	1	1		1	1	1	1	1	1			1	1	1		1				
	1	KECHI	RHC MAND	20,365	33,865		3	1		1	1	1	1			3	2	2	1	1	3	1	1	1		1	1	1	1	1	1	1			1			1				
	1	KECHI	RHC NASIRABAD *	17,651	22,160		1			1	1		1		1	1	1	2	1	1	3	1	1	1		1	1	1	1	1	1				1							
	1	KECHI	RHC TUMP	20,592	9,273		3			1	1		1			1	2	2	1	1	3	1	1	1		1	1	1	1	1	1				1							
1		KECHI	CD NIZARABAD	9,519	22,160		1						1	1								1	1																			
1		KECHI	CD GOKDAN	2,908								1	1									1	1																			
1		KECHI	CD SERI KAHAN	3,004								1	1																		1										
		KECHI	DHQ																																						1
		KECHI	EMWS																																						
24	7	KECHI					31	14	7	7	5	4	32	2	2							31	29	21		2	5	5	5	5	5	1	1	1	1	7		2	1		
1		BOLAN	BHU ABI GUM	18,000								1	1									1	1																			
1		BOLAN	BHU BAKHTAR ABAD DOMKI	3,500								1	1	1				2				1	1																			
1		BOLAN	BHU CHANDARAR	2,450	8,266			1					1									1	1	1																		
1		BOLAN	BHU JAL BANI	1,400			1					1	1									1	1																			
1		BOLAN	BHU KHAIRWAH	2,000	8,708			1					1									1	1																			
1		BOLAN	BHU KOT RAISANI	2,500	8,269			1				1	1									1	1																			
1		BOLAN	BHU MASOO	2,000				1	1				1									1	1																			
1		BOLAN	BHU MITHRI	4,000	11,179		1						1									1	1	1																		
1		BOLAN	BHU MUSHKAF	4,500	8,247		1					1	1									1	1																			
1		BOLAN	BHU RAILO MIAN KHAN	1,125									1	1								1	1																			
1		BOLAN	BHU SANNI *	1,125	9,916								1	1								1	1																			
1		BOLAN	BHU SHAHBAZ KHAN	1,575									1	1								1	1																			
1		BOLAN	BHU SHORAN	1,750	9,450			1					1									1	1																			
1		BOLAN	BHU THERA ABDUL REHMAN	2,750	16,926								1	1								1	1																			
1		BOLAN	BHU TUNNIA	2,750	7,109		1						1									1	1	1																		
	1	BOLAN	RHC KHATTAN *	3,750	8,159			1		1	1	1	2	1	1	3	3	2	3	3		1	1						1												
	1	BOLAN	RHC LEHRI	11,250	12,475		1			1	1	1				2	3	2	3	3		1	1	1	1	1	1	1	1	1			1	1	1						
1		BOLAN	CD KOLPUR	6,750	9,754		1						1									1	1	1																		
1		BOLAN	CD RIND ALI	1,350									1	1								1	1																			
		BOLAN	DHQ																																						
17	2	BOLAN					6	6	1	2	2	7	19	7	1							19	19	6		1	1	1	1	2	1		1	1	1						
1		JAFFERABAD	BHU ABDUL AZIZ KHOSA	8,657	8,179		1	2					1							1	2	1	1	1																		
1		JAFFERABAD	BHU ADAM PUR	8,653	9,080		1	1	1				1							1	1	1	1																			
1		JAFFERABAD	BHU AHMED ABAD	7,667	9,130		1	1	1			1	1							1	2	1	1																			
1		JAFFERABAD	BHU ALI ABAD JAMALI	4,577	7,300		1	2					1							1	2	1	1																			
1		JAFFERABAD	BHU AMIN KONDR RANI	2,224	4,800		1	1					1							1	2	1	1																			
1		JAFFERABAD	BHU BAGH HEAD	5,485	5,685		1	1				1	1							1	2	1	1																			
1		JAFFERABAD	BHU BAGH TALI	2,237	6,370		1	1					1							2	2	1	1																			
1		JAFFERABAD	BHU CATTLE FARM *	23,400	22,000		1	1				1	1						3	1	1	1	1																			
1		JAFFERABAD	BHU DRIGHI	4,265	5,130		1	1					1							1	2	1	1																			
1		JAFFERABAD	BHU GANDAKHA	5,242	10,600		1	1		1		1	1		1	2	3	2	1	1		1	1	1	1																	
1		JAFFERABAD	BHU GHAREEB ABAD	4,330	9,550		1	1				1	1						1	2		1	1	1																	
1		JAFFERABAD	BHU GOTEH ALLAH YAR KHOSA	3,808	6,750		1	1				1	1						1	2		1	1	1																	
1		JAFFERABAD	BHU JANDA TALAB *	12,800	20,000		1	1	1				1							1	2		1	1	1																	

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Remarks;
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EX: Means Sites excluded by Site Survey,
(EX)=Means Institutions to be excluded by the Criteria to select Sites,

BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member									Utility Conditions						Proposed Equipment to be Procured																						
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available-Unreliable,3.Not Available,			Kit for BHU / RHC				Equipment for RHC																				
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigirator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		JAFFERABAD	BHU JIA KHAN KHOSA	7,933	7,400			1					1						1	2		1	1																				
1		JAFFERABAD	BHU MALGOZAR		14,682		1						1	2					2	2		1	1	1																				
1		JAFFERABAD	BHU MEHRAB NIDWANI	2,344	6,130		1	1					1	1					1	2		1	1	1																				
1		JAFFERABAD	BHU MOUNDER KOT	6,521	5,550		1	1	1				1						1	2		1	1	1																				
1		JAFFERABAD	BHU MUHAMMAD INRAHIM GAJANI	5,220	11,390		1	1					1	1					1	2		1	1	1																				
1		JAFFERABAD	BHU MURAD ALI	1,896	10,100		1	1				1	1	1					1	1		1	1	1																				
1		JAFFERABAD	BHU NOOR PUR	6,259	4,710			1	1				1						1	2		1	1																				
1		JAFFERABAD	BHU PENHWAR	6,597	10,230		1	1	1				1	2					1	1		1	1	1																				
1		JAFFERABAD	BHU SOHBAT PUR	5,082	16,400		1	1				1	1		1	1	3	1	1	1		1	1	1																				
1		JAFFERABAD	BHU TAJ PUR	3,846	12,000		1	1	1			1	1						1	2		1	1	1																				
	1	JAFFERABAD	RHC ROHJAN JAMALI *	26,647	30,990		1	1		1	1	1	3	2	2	1			1	1		1	1	1	1		1		1	1	1	1	1				1				1				
1		JAFFERABAD	CD HAIRUDIN	5,077	13,770		1						1	1	1	3	3	2	1	2		1	1	1	1																				
1		JAFFERABAD	CD MANJ PUR *	12,709	25,000		1						1		1	1		3	1	2		1	1	1																				
1		JAFFERABAD	CD ZULFIQAR ABAD JAMALI				1						1	1				3				1	1	1																				
		JAFFERABAD	DHO																												1												
26	1	JAFFERABAD					25	25	7	2	1	9	29	12	6							27	27	25	2		1	1	1	1	1	1		1		1		1					
1		JHAL MAGSI	BHU BARWA				1		1				1									1	1	1																				
1		JHAL MAGSI	BHU DHOMRARI					1	1				1									1	1																				
1		JHAL MAGSI	BHU FATEH PUR				1					1	1									1	1																				
1		JHAL MAGSI	BHU GAJAN				1	1					1									1	1																				
1		JHAL MAGSI	BHU HATHIRI				1	1					1									1	1																				
1		JHAL MAGSI	BHU KABAR				1						1									1	1																				
1		JHAL MAGSI	BHU KACHHI				1	1					1									1	1																				
1		JHAL MAGSI	BHU KOT MAGSI				1						1									1	1																				
1		JHAL MAGSI	BHU NASHORA				1	1					1									1	1																				
1		JHAL MAGSI	BHU PUNJUK				1						1									1	1																				
1		JHAL MAGSI	BHU SARDANI				1	1					1									1	1																				
	1	JHAL MAGSI	RHC GANDAWA							1	1		1		1	1	3	1	3	1	3	1	1			1			1														
	1	JHAL MAGSI	RHC JHAL MAGSI				1	1	1	1			1			1	3	1	3	1	3	1	1	1	1	1	1	1	1		1				1								
		JHAL MAGSI	DHO																												1												
11	2	JHAL MAGSI					2	9	6	2	2	1	13		1							13	13	2		2	1	1	1	2	1		1		1								
1		NASEERABAD	BHU ABDUL HAMEED KHOSA				1	1	1				1									1	1	1																				
1		NASEERABAD	BHU CHATTAR					2					1									1	1																				
1		NASEERABAD	BHU DAD MUHAMMAD UMRANI	9,000	7,884			2					1									1	1																				
1		NASEERABAD	BHU DAULAT GHARI				1	2	1													1	1	1																				
1		NASEERABAD	BHU KOT MENGAL *	14,000	15,000		1	1	1			1										1	1	1																				
1		NASEERABAD	BHU MANJHOO SHORI					1	1		1		1									1	1																				
1		NASEERABAD	BHU MIR WAH									1	1	1								1	1																				
1		NASEERABAD	BHU R.D.50 MAGSI SHAH					1					1									1	1																				
1		NASEERABAD	BHU SABZ ALI UMRANI	16,000	15,950		1	1	1				1									1	1	1																				
1		NASEERABAD	BHU SHAH PUR				1	2					1									1	1	1																				
1		NASEERABAD	BHU TAMBOO				1	2					1									1	1	1																				
	1	NASEERABAD	RHC MIRWAH *	9,000	20,000		1			1	1		1	1	1	1	3	2	2	2	2	1	1	1							1				1								
1		NASEERABAD	CD KHOROS WAH										1	1								1	1																				
1		NASEERABAD	CD PHULJI										1	1								1	1																				
1		NASEERABAD	CD QATTER AT KORAR					1					1	1								1	1																				
1		NASEERABAD	CD MIR HUSSAN										1	1								1	1																				
		NASEERABAD	DHO																												1												
15	1	NASEERABAD					7	16	6	1	1	2	14	6	1							16	16	7							1	1			1								

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(1) Answersto Questionnaires received,
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Remarks,
*: Means Sites visited,
(*): Means Sites not visited but Answers for Questionnaires received,
EX: Means Sites excluded by Site Survey,
(EX)Means Institutions to be excluded by the Criteria to select Sites,

BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member									Utility Conditions						Proposed Equipment to be Procured																				
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available but Unreliable,3.Not Available,			Kit for BHU / RHC				Equipment for RHC																		
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LAV	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water fixture ion tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		CHAGAI	BHU AHMED WAL	2,158			1						1									1	1	1																	
1		CHAGAI	BHU BASLANI					1	1													1	1																		
1		CHAGAI	BHU BHATTO *	2,190									1			3	3	3	1	2	3	1	1																		
1		CHAGAI	BHU CHAR SAR										1									1	1																		
1		CHAGAI	BHU CHATER	2,361									1									1	1																		
1		CHAGAI	BHU DAIDAR	2,117			1		1				1									1	1	1																	
1		CHAGAI	BHU HAZARJUFT	1,757	3,400								1	1	1							1																		
1		CHAGAI	BHU JAMALDINI	3,297	4,133		1	1				1	1									1	1	1																	
1		CHAGAI	BHU KANI	915	2,960			1														1																		
1		CHAGAI	BHU KIRTAKA	742	4,750			1					1									1	1																		
1		CHAGAI	BHU KISHINGI	2,667	6,500			1	1				1									1	1																		
1		CHAGAI	BHU KOGHAL MAL	2,671	4,000		1		1				1									1	1	1																	
1		CHAGAI	BHU MAL	2,311	6,160				1				1									1	1																		
1		CHAGAI	BHU PADAG	2,070	2,200				1				1									1	1																		
1		CHAGAI	BHU PAI GONAKO	1,667	3,000								1									1	1																		
1		CHAGAI	BHU POSTI	1,589	800				1				1									1	1																		
1		CHAGAI	BHU RAJEY						1				1									1	1																		
1		CHAGAI	BHU REKO	1,682	4,000								1									1	1	1																	
1		CHAGAI	BHU SAR QASHA *	2,064	1,500		1		1				1									1	1	1																	
1		CHAGAI	BHU TAFTAN	1,010	3,000		1						1									1	1																		
1		CHAGAI	BHU ZARO CHAH	7,157	7,000			1					1									1																		
	1	CHAGAI	RHC DALBANDIN *			EX	2			2	1					1	3	1	3	1	3					1	1	1	1	1	1			1						
	1	CHAGAI	RHC NOKUNDI				1	1		1	1		1			1	1	1	3	1	1																				
21	2	CHAGAI					9	7	9	3	2	1	19	1								22	20	7		1	1	1	1	1	1			3						
1		PISHIN	BHU BAGH BARSHOOR	691	5,000			1	1				1									1	1																		
1		PISHIN	BHU BALOZAI	1,426	6,000		1	1	1				1									1	1	1																	
1		PISHIN	BHU CHUR BADEZAI	7,653	7,000		1	1	1				1									1	1	1																	
1		PISHIN	BHU HAJI ZAI BALA	4,440	6,000		1	1	1				1									1	1	1																	
1		PISHIN	BHU HAKALZAI	3,366	12,000			1														1																		
1		PISHIN	BHU HURAMZAI	1,519	8,000							1	1									1	1																		
1		PISHIN	BHU KACH HASSAN ZAI	1,704	5,000							1	1									1	1																		
1		PISHIN	BHU KILLA HAJI KHAN	1,992	5,000		1					1	1									1	1	1																	
1		PISHIN	BHU KILLI BATAZAI	4,459	8,000		1	1	1				1									1	1	1																	
1		PISHIN	BHU MANDOZAI	4,106	6,000		1	1	1				1									1	1	1																	
1		PISHIN	BHU MANZAKI	3,347	13,500							1	1									1	1																		
1		PISHIN	BHU MANZARI		9,000			1	1				1									1	1																		
1		PISHIN	BHU MUGHTIAN *	3,584	12,000		1	1	1													1	1	1																	
1		PISHIN	BHU NIGANDA	3,308	15,000		1	1				1	1									1	1	1																	
1		PISHIN	BHU ROOD MALAZAI	10,390	5,000		2						1									1	1	1																	
1		PISHIN	BHU SARANAN	9,673	8,000		1	1				1	2									1	1	1																	
1		PISHIN	BHU SHAHADAIZAI	2,193	7,500							1	1									1	1																		
1		PISHIN	BHU SHAHEE	2,364	4,800		1	1				1	1									1	1	1																	
1		PISHIN	BHU SHAKARZAI	5,558	9,000		1						1									1	1	1																	
1		PISHIN	BHU SHISHAN KAN	3,205	10,000		1	1					1									1																		
1		PISHIN	BHU SHISHAN KHAN	-	6,000			1														1																		
1		PISHIN	BHU TOOR AGHBARGAI	748	4,000								1									1	1																		
1		PISHIN	BHU TOOR GHAR	2,417	4,000		2					1	1									1	1	1																	
1		PISHIN	BHU WALANG MADDAD	1,184	9,000		1	1	1				1									1	1	1																	
1		PISHIN	BHU WALMA	1,511	5,000		1					1	1									1	1	1																	
1		PISHIN	BHU YOUSAF KACH	1,038	5,000			1	1													1																		
	1	PISHIN	RHC ALIZAI	7,149	12,000		2	1	1		1		1		1	1	3					1	1	1																	

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Remarks: *: Means Sites visited.
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EX: Means Sites excluded by Site Survey.
(EX): Means Institutions to be excluded by the Criteria to select Sites.

BHU	RHC	District Name	Name of RHC/BHU	Activity: Curative Care /Year, 1996/97	Activity: Catchment Area Population	Site Excluded	Staff Member: 1 MO	2 MMT	3 FMT	4 XRA	5 LA	6 LHV	7 DAI	8 COMP	9 DRIVER	Utility Conditions: 1.Available, 2.Out of Order,3.Not Available: X-Ray	Dental Unit	Ambulance *	1.Available, 2.Available-Unreliable,3.Not Available: Elec.	Water	Tel Comm	Proposed Equipment to be Procured: Kit for BHU / RHC: A	B	C	D	Equipment for RHC: Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
	1	PISHIN	RHC BARSHOOR	6,441	45,000		1			1	1		1			1		3	2				1	1	1										1				
	1	PISHIN	RHC GANGALZAI	5,087	15,000		1			1	1	1	2			1		3					1	1											1				
	1	PISHIN	RHC UMARABD *	3,271	11,278		1	1			1	1	1		1	2		3	3	1	2		1	1	1			1	1	1	1	1			1				
	1	PISHIN	RHC KHANOZAI *	3,231		EX	4	4	1	1		1				1		1	2	1	1	1														1			
		PISHIN	DHQ																																				
26	5	PISHIN					27	22	12	3	4	13	27		2								30	28	20		1	1	1	1	1	1			4	1			
1		QUETTA	BHU BALULREHIM GUU				1	1			1	1											1	1	1														
1		QUETTA	BHU HANNA	5,715	5,180		1	1	1				1										1	1	1														
1		QUETTA	BHU HUDDA	6,950	60,805		1	1			1	1											1	1	1														
	1	QUETTA	BHU KECHI BEG *	5,748	20,950		1	2	1			1	1			3	3	3	2	2	3		1	1	1		1				1				1	1			
1		QUETTA	BHU KILLI AHMED KHAN ZAI	5,148	45,000		1	1	1				1										1	1	1														
1		QUETTA	BHU KILLI KABIR	8,188	29,226		1	1			1	1											1	1	1														
1		QUETTA	BHU KILLI KHALLI	6,301	19,000		1	1			1	1											1	1	1														
1		QUETTA	BHU KILLI MUHAMMAD KHEL	7,153	14,000		1	1			1	1											1	1	1														
1		QUETTA	BHU KILLI TIRKHA	5,018	35,000		1	1	1				1										1	1	1														
1		QUETTA	BHU NOKSAR	1,596	14,500		1	1			1	1											1	1	1														
1		QUETTA	BHU REGI NASRAN				1	1			1	1											1	1	1														
1		QUETTA	BHU SAMUNGLI				1	1	1				1										1	1	1														
1		QUETTA	BHU SARAGHARGI	18,945	8,000		1	1	1				1										1	1	1														
1		QUETTA	BHU SHADINZAI	3,033	26,500		1	1	1				1										1	1	1														
1		QUETTA	BHU UMAR ABAD				1	1			1	1											1	1	1														
1		QUETTA	BHU URRAK(HANNA)				1	1	1				1										1	1	1														
1		QUETTA	BHU BALOCHISTAN UNIVERSITY, QUE	3,741	7,000		1	1	1				1										1	1	1														
1		QUETTA	BHU BMC COMPLEX, QUETTA	3,760	5,000		1	1	1				1										1	1	1														
1		QUETTA	BHU CIVIL SECTT	3,037			1	1	1														1	1	1														
1		QUETTA	BHU QDR COLONY	5,260	46,458		1	1	1				1										1	1	1														
1		QUETTA	BHU NEW MARIABAD, QUETTA	14,507	50,000		1	1	1				1										1	1	1														
1		QUETTA	BHU NEW PASHTOONAVBAD	13,308	20,000		1	1	1				1										1	1	1														
1		QUETTA	BHU OLD MARIABAD, QUETTA	26,586	114,727		1	1	1				1										1	1	1														
1		QUETTA	BHU OLD PASHTOONABAD, QUETTA	10,143			1	1	1				1										1	1	1														
1		QUETTA	BHU SR/JR COLONY, QUETTA	5,027	10,000		1	1	1				1										1	1	1														
1		QUETTA	BHU VILLAGE AID,QUETTA	5,613	9,000		1	1	1				1										1	1	1														
1		QUETTA	BHU WAHDAT COLONY, QUETTA	17,207	26,000		1	1	1				1										1	1	1														
	1	QUETTA	RHC SORRENG COAL MINES *	10,446	15,000		2		2							3	3	3	2	2	3		1	1	1		1				1	1	1		1	1	2	2		1
1		QUETTA	CD AHMAD KHAN ZAI			EX																																
	1	QUETTA	CD KICHLAK										1	1																									
1		QUETTA	CD PANJPAI				1						1	1	1								1	1	1														
1		QUETTA	CD SAMMALI										1	1									1	1															
		QUETTA	DHQ																												1							1
		QUETTA	EMWS																																				
29	3	QUETTA					30	28	21		9	29	3	1									31	31	29		2		1		2	1		1	1	2	2		1
1		QILA ABDULLAH	BHU ARAMSI KAKUZAI									1	1										1	1															
1		QILA ABDULLAH	BHU GANDA BAGHECHA				1	1	1														1	1	1														
1		QILA ABDULLAH	BHU GIRD PINKI				2	1															1	1	1														
1		QILA ABDULLAH	BHU JANGLE PIR ALIZAI	315	7,000		1	1	1				1	1									1	1	1														
1		QILA ABDULLAH	BHU JILGA				1						1										1	1	1														
1		QILA ABDULLAH	BHU KILLI BAZ MUHAMMAD					1	1				1										1	1															
1		QILA ABDULLAH	BHU KILLI MABIAZAI	821	6,594		1	1	1				1										1	1	1														
1		QILA ABDULLAH	BHU KILLI HAJI JALAT KHAN				1					1	1										1	1	1														
1		QILA ABDULLAH	BHU KILLI KARAM KHAN				1		1														1	1	1														

Data are put from; (1) Accumulate Questionnaires received,
(2) Answears collected by the Local Assistant,
(3) Lists provided by Health Dept, GOB,

Remarks; *: Means Sites visited,
(*): Means Sites not visited but Answers for Questionnaires received,
EX: Means Sites excluded by Site Survey,
(XX)Means Institutions to be excluded by the Criteria to select Sites,

BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member									Utility Conditions						Proposed Equipment to be Procured																				
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available-Unreliable,3.Not Available,			Kit for BHU / RHC				Equipment for RHC																		
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectro photo meter	Auto clave	Centri fuge	Refrig erator	Operation theater set	Ambulance (A)	Ambulance (B)	Water fixture tion tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		QILA ABDULLAH	BHU KILLI TAKEE					1	1													1	1																		
1		QILA ABDULLAH	BHU KULAK KAKUZAI	125	7,000			1	1													1	1																		
1		QILA ABDULLAH	BHU LANDI KAREZ		6,000			1	1				1									1	1																		
1		QILA ABDULLAH	BHU MAHMOOD ABAD		5,000			1	1				1									1	1	1																	
1		QILA ABDULLAH	BHU MURDA KAREEZ				1	1	1				1									1	1	1																	
1		QILA ABDULLAH	BHU RUGHANEE				1	1	1				1									1	1	1																	
1		QILA ABDULLAH	BHU SALAT TEMNA	758	2,000		1	1	1				1									1	1																		
1		QILA ABDULLAH	BHU SAPENA TEEZA										1									1	1	1																	
1		QILA ABDULLAH	BHU SAYGHEE		11,000		2	1	1				1									1	1																		
1		QILA ABDULLAH	BHU SHEELAH BAGH					1	1				1									1	1	1																	
1		QILA ABDULLAH	BHU ZAHRAH BAND		2,556		1	1			1	1	1		1	1	3					1	1																		
	1	QILA ABDULLAH	RHC GULISTAN																			1	1	1										1						
	1	QILA ABDULLAH	RHC MAZAI ADDHHA		21,111		1	1		1	1	1	1		1	1	3					1	1	1									1							
		QILA ABDULLAH	DHQ																													1		1					
20	2	QILA ABDULLAH					16	16	14	2	2	3	17		2							22	22	14																	
1		DERA BUGHTI	BHU HABIB RAHI	6,226	3,350		1						1									1	1	1																	
1		DERA BUGHTI	BHU K SHAIQ KHAN (PITOKH)	2,287	3,550			1	1				1									1	1																		
1		DERA BUGHTI	BHU KALANDERY	3,031	6,710			1	1				1									1	1																		
1		DERA BUGHTI	BHU KHAND GARANI(KILLI GOURANI)	432	1,600			1	1				1									1	1																		
1		DERA BUGHTI	BHU KILLI BASHKEN		6,371			1					1									1	1																		
1		DERA BUGHTI	BHU KILLI DR ABDUR RAHMAN	4,253	1,500			1	1													1	1																		
1		DERA BUGHTI	BHU KILLI GUL MUHAMMAD	3,879	4,500			1	1				1									1	1																		
1		DERA BUGHTI	BHU KILLI JORAK		6,450			1	1													1	1																		
1		DERA BUGHTI	BHU KILLI MUSAKHEL	4,466	4,827			1					1									1	1																		
1		DERA BUGHTI	BHU KILLI SERMORE	3,917	12,000			1					1									1	1																		
1		DERA BUGHTI	BHU KLHERA	707	8,000			1	1				1									1	1																		
1		DERA BUGHTI	BHU LOPE SHERANI	5,010	7,000			1	1				2									1	1																		
1		DERA BUGHTI	BHU LOTI	2,766	5,000								1									1	1	1																	
1		DERA BUGHTI	BHU MALAM SHAHER	4,748	6,000		1					1	1									1	1																		
1		DERA BUGHTI	BHU MARROW	1,565	7,000								1									1	1	1																	
1		DERA BUGHTI	BHU PHELLAWAGH	698	4,879		1						1									1	1																		
1		DERA BUGHTI	BHU PIARA KHAN	4,800	5,677			1	1				1									1	1																		
1		DERA BUGHTI	BHU SER LOPE	3,052	5,540								1									1	1																		
1		DERA BUGHTI	BHU SHAM KHERAN	6,953	19,000							1	1									1	1																		
1		DERA BUGHTI	BHU SHEM KALCHAS	5,158	6,306								1									1	1																		
1		DERA BUGHTI	BHU SINGSTILLAH	2,181	5,100								1									1	1																		
1		DERA BUGHTI	BHU YAROO PAT	675	1,200			1	1				1									1																			
	1	DERA BUGHTI	RHC BAIKER	12,947	21,388		2			1	1	1	2		1		3	3	2	3	3	1	1	1		1	1	1	1	1	1	1			1					
	1	DERA BUGHTI	RHC SUI	21,047	12,964		2			1	1	1	1		1		1	3	2	3	3	1	1	1		1	1	1	1	1	1	1			1					
1		DERA BUGHTI	CD BHAGSER	1,246											1							1																		
1		DERA BUGHTI	CD SORE (SUR)	753									1	1								1	1																		
		DERA BUGHTI	DHQ																													2		2					
24	2	DERA BUGHTI					7	13	10	2	2	4	25	2	2							26	25	5		2	2	2	2	2	2	2	1	1	1	2				
1		KOHLU	BHU CHAPI KACH	1,107				1	1				1									1	1																		
1		KOHLU	BHU FAZIL CHEL	753	1,500		1	1	1				1									1	1	1																	
1		KOHLU	BHU JANAT ALI	1,366	5,930								1	1								1	1																		
1		KOHLU	BHU K FAIZ MOHAMMAD BUNI	1,096	1,580			1	1				1									1	1																		
1		KOHLU	BHU K NEHAL QALANDRANI		3,000			1	1				1									1	1																		
1		KOHLU	BHU KARAM KHAN SHEHR	471	2,000								1	1								1	1																		
1		KOHLU	BHU KILLI GRISNI	3,604	3,980							1	1	1								1	1																		

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Remarks: *: Means Sites visited. (#): Means Sites not visited but Answers for Questionnaires received. EX: Means Sites excluded by Site Survey. (EX): Means institutions to be excluded by the Criteria to select Sites.

BHU	RHC	District Name	Name of RHC/BHU	Activity			Staff Member								Utility Conditions						Proposed Equipment to be Procured																				
							1	2	3	4	5	6	7	8	9	1.Available, 2.Out of Order,3.Not Available			1.Available, 2.Available-Unreliable,3.Not Available,			Kit for BHU / RHC				Equipment for RHC																
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	DRIVER	X-Ray	Dental Unit	Ambulance	Eleo.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool
1		KOHLU	BHU KILU KATAL	737	1,690		1	1	1				2									1	1	1																
1		KOHLU	BHU KILU NEHLAN	1,481	2,000			1				1	1									1	1																	
1		KOHLU	BHU KUNNAL	1,237	1,750		1	1				1	1									1	1	1																
1		KOHLU	BHU LASEZAI *	3,523	2,585			1	1			1	1									1	1																	
1		KOHLU	BHU MAKHMAR	1,142	1,725			1	1				1									1	1	1																
1		KOHLU	BHU NIHALAN SHEMERGANE ALI		900		1	1	1				1									1	1																	
1		KOHLU	BHU NISAU	619				1				1	1									1	1																	
1		KOHLU	BHU PATTI SHAJO	1,500	1,048			1	1				1									1	1																	
1		KOHLU	BHU TUMBOO *	2,167	3,600								1	1								1	1	1																
1		KOHLU	BHU URYANI *	2,696	6,000		1						1	1								1	1																	
1		KOHLU	BHU PAZZA	1,085	2,750								1	1								1	1																	
1		KOHLU	BHU SHALWAR	2,039	1,200			1	1				1									1	1																	
1		KOHLU	BHU SUFAID	1,430	1,900								1	1								1	1																	
1		KOHLU	BHU THAKRAW	726	1,500			1	1				1									1	1								1									
		KOHLU	DHO																																					
21		KOHLU					5	14	11			5	22	7								21	21	5							1									
1		SIBI	BHU BADRA	1,928	2,000								1						3	2		1	1																	
1		SIBI	BHU BAKHRA	3,119	3,466							1	1	1					2	1		1	1																	
1		SIBI	BHU BELU	4,470	5,883			1					1						3	2		1	1																	
1		SIBI	BHU BOSTAN ZAI	2,317	3,100			1	1										3	2		1	1																	
1		SIBI	BHU CHANDIA	2,461	4,000								1	1					2	1		1	1																	
1		SIBI	BHU DEPAL KOLAN	3,603	5,000							1	1	1					2	1		1	1																	
1		SIBI	BHU GHURMAI	3,505	3,000		1	1				1	1						3	2		1	1	1																
1		SIBI	BHU KEDRANI	2,320	2,328			2											3	2		1																	
1		SIBI	BHU KILLI SAZOO	3,432	2,500			1	1				1						3	2		1	1																	
1		SIBI	BHU KURAK	3,030	2,500		1	1				1	2	1					2	1		1	1	1																
1		SIBI	BHU MAL OISHKOR	4,571	1,500			1	1										2	2		1	1																	
1		SIBI	BHU MALOOR OEJ	3,990	3,400		1	1	1													1	1	1																
1		SIBI	BHU SULTAN KOT	3,015	3,900			1	1				1	1					3	1		1	1																	
	1	SIBI	RHC LUNI *	3,273	3,000		1					1	1	3		1	1	3	1		1	1	1			1		1	1	1	1	1			1		1	1	1	
	1	SIBI	RHC SHARIQH *	10,761	11,166		1	1				1	1			1	2	3	2		2	2	1			1		1	1	1		1							
1		SIBI	CD SPENTANGI *	4,565	5,130		1							1					3	1		1	1																	
1		SIBI	CD KHAJJAK *	5,007	9,150							1	2	1					1	1		1	1																	
	1	SIBI	CD TALLI *	9,323	14,411							1	2	1								1	1							1									
		SIBI	DHO																																					
		SIBI	EMWS																																					
15	3	SIBI					8	11	5		2	8	16	6	2							18	17	6		1	1	2	2	2	1	1	1	1	1	2		1	1
	1	ZIARAT	BHU KACH *	3,537	1,586		1	2	1			1	1			3	3	3	1	3	3	1	1						1									1	
1		ZIARAT	BHU KAWAS GHARBI	1,973	3,177				1				1									1	1																	
1		ZIARAT	BHU PECHI KAREZ	3,891	1,143		1	1	1				1									1	1	1																
1		ZIARAT	BHU ZERGI	1,392	5,427							1	1									1	1															1		
	1	ZIARAT	BHU ZIARAT *	4,454	5,348		1			1	1	1	1		1	1			1			1	1	1			1												
1		ZIARAT	BHU ZINDARA	4,906	5,286		1	1					2									1	1						1									1		
	1	ZIARAT	RHC AHMEDOON	3,538	2,742		2			1	1	1	3			1	3	3	1	3	1	1	1			1	1	1	1		1	1						1		
	1	ZIARAT	RHC KAWAS *	5,808	10,000		1		1	1	1				1	1	3	2	1	1		1	1																
1		ZIARAT	CD MANNA	2,917																																				
		ZIARAT	DHO																																					
5	4	ZIARAT					6	3	5	3	2	4	11	1	2							9	9	5			2	2	1	3	2	1				3		1	
1		BARKHAN	BHU CHAPPAR					1	1				1	1								1	1																	

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Remarks: =: Means Sites visited.
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EX: Means Sites excluded by Site Survey.
(EX)=Means Institutions to be excluded by the Criteria to select Sites.

BHC	RHC	District Name	Name of RHC/BHU	Activity			Staff Member								Utility Conditions						Proposed Equipment to be Procured																					
							1	2	3	4	5	6	7	8	1,Available, 2,Out of Order,3,Not Available			1,Available, 2,Available-Unreliable,3,Not Available			Kit for BHU / RHC				Equipment for RHC																	
				Curative Care /Year. 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LA	LHV	DAI	COMP	X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigerator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool					
1		BARKHAN	BHU EASHANI					1	1				1								1	1																				
1		BARKHAN	BHU KILLI TOMANI					1	1				1	1							1																				
1		BARKHAN	BHU MIANI										1								1																				
1		BARKHAN	BHU TAGHAOO										1								1																				
		BARKHAN	DHO																											1											
5		BARKHAN						3	2				5	2							5	3																				
1		QILA SAIFULLAH	BHU BABO CHINA	2,644	3,000				1				1	1				3	2		1	1																				
1		QILA SAIFULLAH	BHU INDER BASE	583	9,240			1	1				1								1	1																				
1		QILA SAIFULLAH	BHU KOZH KACH(MUSLIM BAGH)	2,520	4,400			1	1				1		1		1				1	1																				
1		QILA SAIFULLAH	BHU MASHOWALLA HAMZAZAI		5,650		1	1					1	1				1	2		1	1	1																			
1		QILA SAIFULLAH	BHU NALISAR	2,754	10,300								1	1	1			1	1		1	1																				
1		QILA SAIFULLAH	BHU SHARAN JOGEZAI	253	5,000		1	1	1									3	2		1	1	1																			
1		QILA SAIFULLAH	BHU SIRKHA DAULAI ZAI	795	4,828		1	1					1	1				1	2		1	1																				
1		QILA SAIFULLAH	BHU TOBU		2,000		1	1					1								1	1																				
	1	QILA SAIFULLAH	RHC BADINI	4,196	15,914		1			1	1		1	1	1	1	3	3	2	2	1	1	1		1	1	1	1	1	1			1								
1		QILA SAIFULLAH	CD KAN MEHTARZAI	2,664			1						1	1				1	2		1	1																				
1		QILA SAIFULLAH	CD MURGHA FAQIR ZAI	3,573			1						1	1				2	2		1	1	1							1											
		QILA SAIFULLAH	DHO																																						
10	1	QILA SAIFULLAH					7	8	4	1	1	1	10	7	3						11	11	7		1	1	1	1	3	1		1		1							
1		LORALAI	BHU AGHBARO					1					1								1	1																				
1		LORALAI	BHU BAGHAO	2,273	3,000		1	1	1				1								1	1	1																			
1		LORALAI	BHU BANI KOT ZAKI	1,163	4,335			2					1					3	2		1	1																				
1		LORALAI	BHU BARAD KACH	1,605	4,845			1					1	1				3	2		1	1																				
1		LORALAI	BHU BUGAT	1,145	4,694			1	1				2								1	1																				
1		LORALAI	BHU CHUTAIR	3,934	5,000			1	1				1					3	2		1	1																				
1		LORALAI	BHU DARMENH	609	4,000			1					1	1							1	1																				
1		LORALAI	BHU EISA ZAI	669	3,500			1					1	1							1	1																				
1		LORALAI	BHU JANGLE SARDAR LONI					1					1	1							1	1																				
1		LORALAI	BHU K. HAIDER KHAN LUNI					1					1	1							1	1																				
1		LORALAI	BHU KACH AMAKZAI	2,435	3,000			1	1				1					1	2		1	1																				
1		LORALAI	BHU KAVI NASARABAD	1,653	10,000			1	1				1								1	1																				
1		LORALAI	BHU KILLI FATEH MOHAMMAD TALAO	284	10,000			1					1								1																				
1		LORALAI	BHU KILLI MUSA JAN	598									1	1							1	1																				
1		LORALAI	BHU MARJAN ZAI	632	3,500			1					1	1							1	1																				
1		LORALAI	BHU MULA SHAHOO	1,954	15,000			1					1								1	1																				
1		LORALAI	BHU NASAR ABAD (DUKI) •	636	10,000								1	1							1	1	1																			
1		LORALAI	BHU NASARABAD •	947	18,000		1	1	1				1								1	1																				
1		LORALAI	BHU NIMKI ALABAD	2,467	15,000			2					1								1	1																				
1		LORALAI	BHU POI	1,076	15,000			1	1				1					1	2		1	1																				
1		LORALAI	BHU PONGAI	621	7,000		1	1	1				1								1	1	1																			
1		LORALAI	BHU SASOO CHENA K/BAHADUR KHAN		15,000			1	1				1								1	1																				
1		LORALAI	BHU SHINLIZ	905	3,020			2					1								1	1																				
1		LORALAI	BHU TANDWANI	1,662	7,000			1	1				1								1	1																				
1		LORALAI	BHU TOOR THANA	1,769	6,000		1	1	1				1					3	2		1	1	1																			
1		LORALAI	BHU WAHVI	3,765	3,070			1	1				1						2		1	1																				
1		LORALAI	BHU WAL ZARKOON	2,025	7,000			1					1					3	2		1	1																				
1		LORALAI	BHU NASAL ABAD KATWI			(EX)																																			
	1	LORALAI	RHC ISMAIL SHEAR •	2,687	14,639		1			1	1	1	1	1	1		1		2	1	1	1	1		1	1	1	1	1	1	1	1			1						
	1	LORALAI	RHC SINJAVI •	3,538	12,960		3	1	1	1	1		1	1	1	3	2	2			1	1	1		1	1	1	1	1	1	1	1			1						
	1	LORALAI	RHC MAKHTAR •	4,320	13,491	(EX)											1																								

Data are put from;
(1) Answeares to Questionnaires received,
(2) Answeare collected by the Local Assitant,
(3) Lists provided by Health Dept, GOB,

Remarks;
*: Means Sites visited,
(*): Means Sites not visited but Answers for Questionnaires received,
EX: Means Sites excluded by Site Survey,
(EX):Means Institutions to be excluded by the Criteria to select Sites,

BHC	RHC	District Name	Name of RHC/BHU	Activity			Staff Member									Utility Conditions						Proposed Equipment to be Procured																				
							1	2	3	4	5	6	7	8	9	1,Available, 2.Out of Order,3.Not Available			1,Available, 2.Available-Unreliable,3.Not Available,			Kit for BHU / RHC				Equipment for RHC																		
				Curative Care /Year, 1996/97	Catchment Area Population	Site Excluded	MO	MMT	FMT	XRA	LAV	DAI	COMP	DRIVER		X-Ray	Dental Unit	Ambulance	Elec.	Water	Tel Comm	A	B	C	D	Generator	Spectrophotometer	Autoclave	Centrifuge	Refrigirator	Operation theater set	Ambulance (A)	Ambulance (B)	Water filtration tank	X-ray	IV stand	Delivery Table	Basic Laboratory Equipment	Repair Tool				
1		LORALAI	CD MERA TANGI	1,753	4,900		1						1	1					3	2		1	1	1																		
1		LORALAI	CD HAZAR SHEAR	561									1	1								1	1																		
1		LORALAI	CD PDI										1									1	1																		
1		LORALAI	CD AMIR MOHAMAD CHMAZA			EX0																																			
		LORALAI	DHO																											1										
		LORALAI	EMWS																																					1
32	3	LORALAI					9	29	13	2	2	1	33	10	2							32	31	7		2	2	2	2	2	2	1	1		2					1
1		MUSA KHEL	BHU KASHPAN	3,738	11,500		1	1					1									1	1	1																	
1		MUSA KHEL	BHU KINGRI *	6,690	7,000		1	1	1			1	1						3	2		1	1	1																	
1		MUSA KHEL	BHU KOT KHAN MOHAMMAD	4,150	6,200			1	1				1									1	1																		
	1	MUSA KHEL	RHC MUSA KHEL	26,989	22,000		2				1	1	2	2	1	1	3	1	3	1	3	1	1	1		1	1	1	1	1	1				1					
		MUSA KHEL	DHO																												1									
3	1	MUSA KHEL					4	3	2		1	2	5	2	1							4	4	3		1	1	1	1	1	1	1			1					
1		ZHOB	BHU ALI KHAN ZAI	2,209	1,048		1		1				1	1					1	2		1	1	1																	
1		ZHOB	BHU BABI IRABZAI	1,096	2,995				1				1						1	1		1	1																		
1		ZHOB	BHU KAKHAOW	1,124	2,021				1				1	2					3	2		1	1																		
1		ZHOB	BHU KAPPEP *	1,532	25,014		1	1	1				1						1	1		1	1	1																	
1		ZHOB	BHU KAZA GHARA YASIN ZAI					1	1													1	1																		
1		ZHOB	BHU KHOORI WASTA	1,793	11,303		1	1					1						3	2		1	1	1																	
1		ZHOB	BHU KILLI SHEIKHAN *	1,412	1,037		1	1				1	1	1					1	1		1	1	1																	
1		ZHOB	BHU KNOKAI	1,793	2,251		1	1					1						3	2		1	1	1																	
1		ZHOB	BHU LAKA BAND	2,486	6,132		1		1				1	1					3	2		1	1	1																	
1		ZHOB	BHU MANZAKI	1,016	8,120		1						1	1	1				3	2		1	1	1																	
1		ZHOB	BHU RAKH PUR	2,336	1,625			1	1				1							2		1	1																		
1		ZHOB	BHU SAILANA *	1,203	421	EX	1	1	1				1						3	2																					
1		ZHOB	BHU SAQI KHAIL	377	9,700			1					1						3	2		1	1																		
1		ZHOB	BHU SUR KATCH	1,133	2,337		1	1					1						3	2		1	1	1																	
1		ZHOB	BHU TOORMAY ZAKARIAZAI	1,646	2,605			1				1	1						3	2		1	1																		
	1	ZHOB	RHC MANI KHAWA *	2,442	50,000	EX	2		1	1	1		1	1	2	1		2	2	2																				
	1	ZHOB	RHC MURGHA KIBZAI *	4,441	11,106	EX	2			1	1		1	1	1	1		2	2	2																				
	1	ZHOB	RHC WALA AKRAM			EX																																		
	1	ZHOB	RHC OMZAAH			EX																																		
1		ZHOB	CD QAMARDIN KAREZ	2,754	1,305		1						1	1					3	2		1	1	1																	
1		ZHOB	CD MIR ALI KHALL	1,150	11,407								1	1								1	1																	
		ZHOB	DHO																												1									
17	4	ZHOB					14	10	9	2	2	2	18	10	4							16	16	9								1								