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1 調査団員・氏名



## 1 調査団員・氏名

(1) 第一次概略設計調査(期間：平成23年7月4日から7月24日まで)

氏名	担当分野	現地滞在期間	所属
牛尾 光宏	総括	7月9日-7月16日	JICA 人間開発部 技術審議役
稲垣 良隆	計画管理		JICA 人間開発部 保健第四課
高橋 謙造	技術参与	7月4日-7月16日	国立国際医療研究センター
長岡 嶺男	業務主任/ 建築計画	7月9日-7月16日	株式会社山下設計
津本 正芳	副業務主任/ 建築計画	7月4日-7月24日	株式会社山下設計
森 祐輔	建築設計		株式会社山下設計
浅沼 靖子	機材計画		ビンコーインターナショナル株式会社
安松 茂	施工計画/積算	7月11日-7月24日	株式会社山下設計
錦 麗絵	機材調達/積算	7月4日-7月17日	ビンコーインターナショナル株式会社
小笠原 禎	保健医療情報	7月4日-7月24日	ビンコーインターナショナル株式会社

(2) 第二次概略設計調査(期間：平成23年9月10日から9月30日まで)

氏名	担当分野	現地滞在期間	所属
江口 秀夫	総括	9月13日-9月23日	JICA 人間開発部 次長(計画・調整担当)
稲垣 良隆	計画管理	9月13日-9月21日	JICA 人間開発部 保健第四課
水野 智美	技術参与	9月10日-9月21日	国立国際医療研究センター
津本 正芳	副業務主任/ 建築計画	9月10日-9月30日	株式会社山下設計
森 祐輔	建築設計		株式会社山下設計
得能 正樹	設備設計		株式会社山下設計
浅沼 靖子	機材計画		ビンコーインターナショナル株式会社
安松 茂	施工計画/積算		株式会社山下設計
小笠原 禎	保健医療情報		ビンコーインターナショナル株式会社

(3) 概要説明調査(期間：平成 24 年 2 月 17 日から 2 月 26 日まで)

氏名	担当分野	現地滞在期間	所属
牛尾 光宏	総括	2月18日-2月25日	JICA 人間開発部 技術審議役
稲垣 良隆	計画管理		JICA 人間開発部 保健第四課
長岡 嶺男	業務主任/ 建築計画	2月17日-2月26日	株式会社山下設計
津本 正芳	副業務主任/ 建築計画		株式会社山下設計
森 祐輔	建築設計		株式会社山下設計
浅沼 靖子	機材計画		ピンコーインターナショナル株式会社

## 2 調査行程





## 2 調査行程

### (1) 第一次概略設計調査

日順	日付	曜日	機構団員		1	2	3	4	5	6	7	
			総括、 計画管理	技術参与	業務主任/ 建築計画	副業務主任/ 建築計画	建築設計	機材計画	施工計画/ 積算	機材調達/ 積算	保健医療 事情	
					長岡 嶺男	津本 正芳	森 祐輔	浅沼 靖子	安松 茂	錦 麗絵	小笠原 禎	
1	7月4日	月		2に同じ		東京発→カラチ着				2に同じ		
2	7月5日	火		2に同じ		シンド州保健局表敬・協議 カラチ小児病院表敬・調査				2に同じ		
3	7月6日	水		2に同じ		カラチ小児病院調査：運営状況、施設、機材、建設予定地調査				2に同じ		
4	7月7日	木		NICH調査 (機材)		NICH調査(施設、運営) 公共事業局協議	6に同じ			NICH調査(機材)、保健 局協議(人員・予算)		
5	7月8日	金		2に同じ		保健局・小児病院合同協議 小児病院調査				2に同じ		
6	7月9日	土	カラチ着	2に同じ	東京発→ カラチ着	資料整理、団内会議	代理店 調査			4に同じ	2に同じ	
7	7月10日	日			資料整理、団内会議					2に同じ		
8	7月11日	月			シンド州計画開発局表敬、保健局表敬・協議 保健局・小児病院合同協議： インセプション・レポート説明・協議			保健局 協議	東京発→ カラチ着	4に同じ		
9	7月12日	火			保健局・小児病院合同協議		自然条件 調査協議	2に同じ	3に同じ	2に同じ		
10	7月13日	水			カラチ小児病院協議・調査						保健統計 調査	
11	7月14日	木			ミニッツ署名 カラチ発→イスラマバード着		保健局協議					
12	7月15日	金			JICA事務所・日本国大使館報告 イスラマバード発		小児病院 調査	6に同じ	3に同じ	血液バンク 協議、小児 病院協議	保健局 協議	
13	7月16日	土			東京着		イスラマ小児 病院、母子 保健視察	自然条件 調査協議	6に同じ	3に同じ	血液バンク 協議、代理 店調査	資料整理
14	7月17日	日				イスラマ バード発→ カラチ着	資料整理、団内会議			カラチ発→ 東京着	3に同じ	
15	7月18日	月				施設配置計画検討	NICH調査、 UNICEF協 議	NICH調査			4に同じ	
16	7月19日	火				小児病院協議 公共事業局協議	小児病院 協議 NICH調査	3に同じ			4に同じ	
17	7月20日	水				類似施設調査 水道局協議	NICH調査、 保健局 協議	3に同じ			4に同じ	
18	7月21日	木				施設配置計画検討	類似施設 協議、NICH 調査	類似施設 協議			4に同じ	
19	7月22日	金				保健局・小児病院合同協議： 施設計画、機材計画				4に同じ		
20	7月23日	土				施設配置計画検討 自然条件調査協議	小児病院 追加調査	3に同じ			4に同じ	
21	7月24日	日				カラチ発→東京着					2に同じ	

(2) 第二次概略設計調査

日順	日付	曜日	機構団員		1	2	3	4	5	6
			総括、計画管理	技術参与	副業務主任/建築計画 津本 正芳	建築設計 森 祐輔	設備設計 得能 正樹	機材計画 浅沼 靖子	施工計画/積算 安松 茂	保健医療事情 小笠原 禎
1	9月10日	土	東京発→カラチ着							
2	9月11日	日	団内協議							
			調査準備	建設業者資料受領	自然条件調査開始調整	建設業者資料受領	機材代理店資料受領	自然条件調査開始調整	機材代理店資料受領	
3	9月12日	月	シンド州保健局スケジュール調整							
			シンド州保健局・カラチ小児病院合同協議：施設・機材コンポーネント協議			既存施設・インフラ調査	1に同じ	既存施設・インフラ調査	カラチ小児病院調査	
4	9月13日	火	東京発→カラチ着	既存インフラ調査・再委託調査 水質検査			団内協議	1に同じ	団内協議	
5	9月14日	水	団内協議							
			シンド州保健局表敬			廃棄物処理調査	血液銀行追加調査	廃棄物処理調査	アバシ病院調査	
6	9月15日	木	シンド州保健局・カラチ小児病院合同ミニッツ協議			インフラ調査(電力、電話、ガス)	1に同じ	インフラ調査(電力、電話、ガス)	カタール、ニューカラチ病院調査	
7	9月16日	金	シンド州保健局・カラチ小児病院合同ミニッツ協議			インフラ調査(井戸、市水・排水)	中央検査センター、カラチ小児病院	インフラ調査(井戸、市水・排水)	中央検査センター、カラチ小児病院	
8	9月17日	土	団内会議、ミニッツ修正 カラチ小児病院視察			類似施設調査				
9	9月18日	日	団内会議、ミニッツ修正、カラチ小児病院視察			団内会議、資料整理				
10	9月19日	月	ミニッツ署名(シンド州保健局、開発局)		インフラ調査(医療ガス、消防)	インフラ調査(医療ガス、消防)	NICH資料収集、県保健局資料収集	インフラ調査(医療ガス、消防)	NICH資料収集、県保健局資料収集	
			カラチ発→イスラマバード着							
11	9月20日	火	ミニッツ署名 JICA事務所・日本国大使館報告 (計画管理・技術参与) イスラマバード発→		建設資材調査(イスラマ)	建設資材調査(イスラマ)	カラチ小児病院機材協議	建設資材調査(イスラマ)	カラチ小児病院資料収集	
12	9月21日	水	(計画管理・技術参与) →バンコク→東京	建設資材調査(イスラマ) GIZ協議			カラチ小児病院機材協議	1に同じ	カラチ小児病院機材協議	
13	9月22日	木	(総括) イスラマバード発→	イスラマバード発→カラチ着			カラチ小児病院機材協議	1に同じ	カラチ小児病院機材協議	
			建設資材調査： ローカルコンサルタント							
14	9月23日	金	(総括) →東京着	施設計画案作成	建設業者調査、生コン工場調査	カラチ小児病院機材協議	建設業者調査、生コン工場調査	維持管理価格調査		
15	9月24日	土	建築規制調査(W&SD) 施設計画案作成			機材代理店調査、輸送事情調査	積算資料収集	県保健局資料収集		
16	9月25日	日	団内会議、資料整理							
17	9月26日	月	施設計画案作成		設備計画案作成	機材代理店価格調査	他ドナー支援調査			
18	9月27日	火	シンド州保健局・カラチ小児病院合同協議：施設・機材計画案協議							
19	9月28日	水	施設計画案作成		設備計画案作成	機材計画案作成	施工計画案作成、再委託確認	カラチ小児病院資料収集		
20	9月29日	木	施設計画案作成		積算資料収集	機材代理店価格調査	積算資料収集	機材代理店価格調査		
			カラチ発							
21	9月30日	金	東京着							

## (3) 概要説明調査

日順	日付	曜日	機構団員			
			総括、計画管理	1 業務主任/ 建築計画 長岡 嶺男	2 副業務主任/ 建築計画 津本 正芳	3 建築設計 森 祐輔
1	2月17日	金	東京発→カラチ着			
2	2月18日	土	東京発→カラチ着	シンド州保健局・カラチ小児病院合同協議		
3	2月19日	日	団内協議			
4	2月20日	月	シンド州計画開発局表敬、シンド州保健局表敬・協議、 シンド州保健局・カラチ小児病院合同協議：準備調査報告書(案)			
5	2月21日	火	カラチ小児病院協議：準備調査報告書(案)			
6	2月22日	水	シンド州保健局・カラチ小児病院合同協議：ミニッツ(案)			
7	2月23日	木	ミニッツ署名、カラチ発→イスラマバード着		カラチ小児病院補足調査	
8	2月24日	金	JICA事務所、日本国大使館報告 イスラマバード発	イスラマバード発→カラチ着		資機材調達補足調査
9	2月25日	土	東京着	資機材調達補足調査		
10	2月26日	日	カラチ発→東京着			



### 3 関係者（面会者）リスト



### 3. 関係者（面会者）リスト

所属	名前	職位
経済協力局	Munir Ahmad Chaudhary	次官（アジア開発銀行、日本）
	Jamil Anwar	次官（アジア開発銀行、日本）
シンド州保健局	Rizwan Ahmed	保健次官
	Syed Hashim Raza Zaidi	保健次官
	Dr. Suresh Kumar	特別保健次官（公衆衛生）
	Dr. Capt. Sikandar Ali Panhwar	特別保健次官（公衆衛生）
	Dr. Khalid Hussain Shaikh	副保健次官
	Dr. Khalid Qureshi	副保健次官
	Mohsin A. Saikh	副課長
	Ubedllah Memon	副課長
	Shaista Mubarak	副課長
	Mr. Ghulam Ali	副次官
	Dr. Jamaluddin Sheikh	副次官（アドミニストレーション1）
	Mr. Ghulam Ali Brahmani	副次官（アドミニストレーション2）
	Dr. Abdul Rashid Shaikh	次長（公衆衛生）
	Dr. Sikander	部門管理者
	Dr. Qazi	公衆衛生
	Mr. Mushitoba	連邦レベルの人材担当者
	Dr. (Ms.) Dur-e-Shahmar	食料基金プログラム担当者
公共事業局	Ghulam Qadir Laghari	管理技術者
	Prem Talreja	管理技術者
	M. Yousuf	高度技術者
	Salahulli Ahmed	補助技師
シンド州計画開発局	Engr. Khalid Waheed Khan	特別保健次官
	Muhammad Ishaque Lashari	副次官チーフ（開発）
	Abbas Ali	海外援助担当窓口
	Dr. Qazi Masood Ahmed	経済分析チーフ
	Dr. Fawad Shaikh	主任（保健）
	Iffat Malik	主任（海外援助）
	M. Nasim Ilham	プログラムオフィサー（海外援助）
	M. Nasir	プログラムオフィサー（海外援助）
	Shahnaz Sidohgn	副主任
	Dr. Saimq Mushtaque	計画
	Morsin Chdnqus	
Muhammad Nasir		
財務局	Asif Ikram	副次官
カラチ行政区	Mr. ali Hassan Abro (Mr.)	保健課長、カラチ行政区
	Dr. Aslam Pervaiz	保健オフィサー
	Dr. Harid Masood	保健オフィサー
	Dr. Nasir Javeed	保健課長、カラチ行政区
シンド州統計局	Afsar Ali Danwar	統計オフィサー
ガンバット医科学研究所	Dr. Rahim Bux Bhatti	課長
人口福祉局	Mr. Ashafaq Shah	副次官
維持管理部	Mr. Zulfiqar	バイオメディカルエンジニア
カラチ市保健局		
	Dr. Nasir Ahmed	市保健局監督責任者
	Dr. Zafar Ijaz	市オフィサー
ニューカラチタウン		
	Dr. Syed Mazhar-ud-din	タウン保健オフィサー
カラチ上下水道局		
	Syed Manzoor Yamin	管理技術者、メカニカル技術者
	Fahim Akhter Laidi	主任技師

所属	名前	職位
シンド輸血局		
	Dr. Zahid Hasan Ansari	州プロジェクト課長・次官
	Dr. Kulsoom	モニタリングオフィサー
	Dr. Ismail Memon	副プログラムマネージャー
	Dr. Shah Mohammad	プロジェクトマネージャー補佐
パキスタン医科協会		
	Dr. M. Ismail Memon	名誉次官
連邦サービス事務所		
	Najeeb Ahmed	県オフィサー
シンド州小児病院		
	Dr. Asif Zaman Khan	院長
救急	Dr. Shaheen Aijaz	レジデント医師
救急	Dr. Naveed Ahmed	救急医
救急	Ms. Shaheen Anjum	スタッフナース
救急	Habib -Ur-Rehan	外科助手
X線室	Dr. Inam UI HAQUE	放射線技師
X線室	Mr. Sajjad Khan	シニアX線技師
女性外来	Dr. Ragia	女性一般医
女性外来	Dr. Shama Nashi	女性一般医
女性外来	Dr. Punita	女性一般医
女性外来	Dr. Alia	女性一般医
女性外来	Dr. Rukusaman	女性一般医
臨床検査室	Mr. Syed Mateen Ahmed	シニアクラーク
臨床検査室	Mr. Muhammad Ali	検査技師
臨床検査室	Ansar Ajider	医療技師
栄養外来	Dr. Safia	医療技師
栄養外来	Dr. Hasan Khalid Zuberi	シニア小児科医
栄養外来	Dr. Nasreen Anwar	シニア女医
栄養補給センター	Dr. Fazna Adel	女性一般医
栄養補給センター	Muhammed Zubain	病棟担当者
栄養補給センター	Arifa BANO	スタッフナース
栄養補給センター	Sultana Sajid	保健技師
点滴室	Farman Ali	スタッフナース
手術室	Dr. Wajeeh Uddin	小児外科医
手術室	Mr. Muhammad Owais Khan	手術室技師
手術室	Mr. Atif	手術室技師
外来	Dr. Abid Hussain	一般医
超音波室	Dr. Kouser Fatima	シニア女医
超音波室	Dr. Sabina Nizan	シニア女医
男性外来	Dr. Muhammad Irfan	一般医
男性外来	Dr. Sabina Nizam	
病棟B	Dr. Qamarunnissa	シニア女医
歯科	Nazakat Ullah	シニア歯科衛生士
歯科	Dr. Taqui	歯科外科医
歯科	Dr. Mumpaz	歯科部門長
歯科	Dr. Arzoo	歯科医
物理療法室	Mr. Asif Sharif	物理療法士
薬局	Abdul Majeed	薬剤師
薬局	Muhammed Ejaz	病棟担当者
家族計画室	Mrs. Rubina	家族福祉士
家族計画室	Mrs. Sonia	家族福祉士助手
家族計画室	Mrs. Zaitoon Bibi	病棟担当者
家族計画室	Mr. Atifali	男性家族福祉助手
家族計画室		女性保健ワーカー



所属	名前	職位
<b>NICH</b>		
	Prof. Jamal Raza	院長
	Dr. Yasir	内分泌研究者
小児外科	Dr. Naima	小児外科医
小児外科	Dr. Jamshed Akhtar	助教授
維持管理部門	Mr. Majid Ali Memon	医療技師
維持管理部門	Mr. Wasim	機材管理士
ICU	Dr. Fareed	小児科医
NICU	Dr. Narish	教育実習生
NICU	Syed Mansoon Shah	守衛
NICU	Dr. Shafaq	教育実習生
NICU	Dr. Manshal Khan	助教授
火傷科	Dr. Kishore Kuma	一般医
手術室	Mr. Ali	手術室技師
中央滅菌	Mr. Faisail	加圧滅菌士
手術室	Dr. Raji Kumar	小児麻酔科医
病理検査	Dr. Furqur	病理検査士
組織病理検査、血液バンク	Dr. Rudbb	組織病理検査士
蛍光顕微鏡検査	Tasavar Iqbal	医療技師
腎臓外来	Dr. Khem Chand .N. Moorani	一般医
管理部	Dr. Arshad	課長補佐
外来	Dr. Shazia	一般医
暗室	Gholan Mustafa	暗室助手
放射線科	Dr. Anil	放射線技師
放射線科	Ramesh Kumar	放射線技師
救急	Shanim Shama	看護長
<b>ダウ医科大学</b>		
人体医学・リハビリ研究所	Dr. Syed Imran Ahmed	助教授
人体医学・リハビリ研究所	Dr. Shahida	課長補佐、作業療法
<b>アガ・カーン大学病院</b>		
	Afifa Batool	シニアアシスタントマネージャー
女性子供科	Dr. Safdar Kasazwala	マネージャー
<b>アバシ・シャヒード病院</b>		
	Dr. Nadeem Ahmed Rajput	院長
	Dr. Sultan	小児科教授
	Dr. Ebrahim	小児科助教授
<b>ニューカラチ病院</b>		
	Dr. Hasan aldin	病院長
	Dr. Aisha	シニアレジデント医師
	Dr. Jameel Rafail	小児外来医
	Dr. Navshkba	病理検査士
<b>カラチ市民病院</b>		
	Dr. Saeed Clureshi	院長
	Dr. Rustam Zaman	副院長
	Dr. Humaira Ghuos	血液銀行血液医師
	Dr. Ammarah	小児科助教授
<b>ジンナー病院</b>		
	Prof. Tasnim Ahsan	院長
	Dr. Alyscia Cheema	コンサルタント
	Dr. Ghulam Mahboob	教授
<b>都市保健センター</b>		
	Dr. S. Ahmed	一般医
	Dr. Khurshid	院長

所属	名前	職位
	Mrs. Shaheen	超音波技師
	Dr. Ashed	一般医
	Dr. Abdraf	副病院長
	Dr. Atal	副院長
<b>アマン基金</b>		
	Dr. Zeorh Khan	救急医師
	Dr. Sidiqqe	ニューカラチ区責任者
<b>ユニセフ・カラチ</b>		
	Dr. Asif Aslam	保健スペシャリスト
	Dr. Shoukat Ali	保健オフィサー
<b>フサイニ血液バンク (NGO)</b>		
	Mr. Ajaz	事務クラーク
	Ms. Sadia	臨床検査技師
<b>フサイニ血液バンク (本部)</b>		
	Dr. Asad Ali	主任
	Dr. Saeed Ahmed	血液銀行長
	Dr. S. Safaraz H. Jafry	事務方
	Dr. Shaikh Zulfiqar Ali Hashmi	財務オフィサー主任
<b>パキスタン医学研究所 (Pakistan Institute of Medical Sciences : PIMS)</b>		
イスラマバード小児病院	Dr. Zahid Larik	課長
	Dr. Farhana Zareef	助教授 (生理学)
母子保健センター	Dr. Riffat Kamal	課長補佐
	Rafaqat Ali Butt	土木技師
<b>在パキスタン日本大使館</b>		
	大坪成	一等書記官
	後藤晃	二等書記官
<b>JICA パキスタン事務所</b>		
	佐藤俊也	次長
	石黒洋平	企画調査員 (保健)
	Sohail Ahmed	シニアプログラムオフィサー
	Qutaibah Saleem	安全対策アドバイザー (カラチ)
<b>GFA / GIZ</b>		
	Paul Kohorst	団長
	Rabia Jadoon	技術専門家
	Usman Waheed	技術アドバイザー
	Zahid Mahmood	国代表
<b>カラチ電力会社</b>		
	Syed Mujeeb Ur Rehman	ゼネラルマネージャー
<b>パキスタン電話会社</b>		
	Jamal Abudul Nasir	地域ゼネラルマネージャ
<b>スイ南方ガス会社</b>		
	Mohammad Ahmed Siddiqui	ゼネラルマネージャー

#### 4 討議議事録 (M/D)



#### 4. 討議議事録(M/D)

##### (1) 第一次概略設計調査



Minutes of Discussions  
Preparatory Survey on the Project for  
Improvement of Child Health Institute in Karachi  
In the Islamic Republic of Pakistan

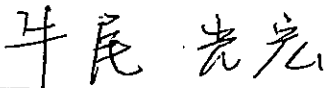
In response to a request from the Government of the Islamic Republic of Pakistan (hereinafter referred to as "the Pakistan"), the Government of Japan decided to conduct a Preparatory Survey on the Project for Improvement of Child Health Institute in Karachi (hereinafter referred to as "the Project" ) and entrusted the study to the Japan International Cooperation Agency ( hereinafter referred to as "JICA" ) .

JICA dispatched the Preparatory Survey Team (hereinafter referred to as "the Team" ) to Pakistan, which is headed by Dr. Mitsuhiro Ushio, Executive Technical Advisor to the Director General, Human Development Department, JICA, and is scheduled to stay in the country from July 4 to July 24, 2011.

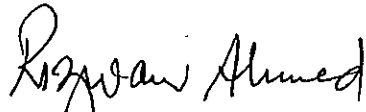
The Team held discussions with the officials concerned of the Government of Sindh, collected basic information and conducted a field survey at the study area.

As a result of discussions and field survey, both parties confirmed the main items described in the attached sheets.

Karachi, July 15, 2011



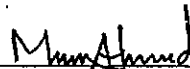
Dr. Mitsuhiro Ushio  
Leader  
Preparatory Survey Team  
Japan International Cooperation Agency



Mr. Rizwan Ahmed  
Secretary  
GOVERNMENT OF SINDH,  
HEALTH DEPARTMENT  
Health Department  
Government of Sindh  
The Islamic Republic of Pakistan



Dr. Qazi Masood Ahmed  
Chief Economist  
Planning & Development Department  
Government of Sindh  
The Islamic Republic of Pakistan



Mr. Munir Ahmad Chaudhary  
Joint Secretary (ADB/Japan)  
Economic Affair Division  
The Islamic Republic of Pakistan

Chief Economist,  
Government of Sindh,  
Planning & Development Department

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to strengthen the services of the Child Health Institute in Karachi by improving its facilities and equipment.

### 2. Project site

The site of the Project is located in Karachi city in province of Sindh.

### 3. Responsible and Implementing Agency

3-1. The Responsible Agency is Health Department, Government of Sindh.

3-2. Implementing Agency is Health Department, Government of Sindh.

### 4. Items requested by the Government of Pakistan.

After discussions with the Team, the items described in Annex 2 and 3 were requested by the Pakistani side on the assumption that function of the Child Health Institute in Karachi will focus on general medical services excluding high level medical services. JICA will assess the appropriateness of the request and will recommend to the Government of Japan for its approval.

### 5. Japan's Grant Aid Scheme

5-1. The Pakistani side understood the Japan's Grant Aid Scheme explained by the Team, as described in Annex 4 and 5.

5-2. The Pakistani side will take the necessary measures, as described in Annex 6, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

### 6. Schedule of the Survey

6-1. The consultants will proceed to conduct further survey in Pakistan until July 24, 2011.

6-2. JICA will dispatch preparatory survey again to Pakistan around September 2011 to prepare basic design of the Project through researching and discussing the overall plan of the Project with the Government of Sindh.

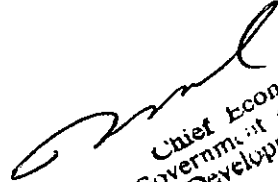
6-3. JICA will prepare the summary of draft report in English which describes the basic design of the Project, and will dispatch a mission in order to explain its contents in February, 2012.

6-4. In case the basic design is accepted in principle by the Government of Pakistan, JICA will submit the appraisal document to the Government of Japan for the Project appraisal. Through the appraisal, the Japanese Cabinet will make a final decision for the implementation of the Project.

6-5. If the Project is approved by the Japanese Cabinet, the final report (the Preparatory Survey Report) will be sent to the Government of Pakistan by September, 2012.

6-6. The above schedule is tentative and subject to change.

  
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Government of Sindh,  
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7. Other relevant issues

7-1. The Pakistani side agreed to secure and allocate sufficient permanent staff and enough budgets to operate and maintain the improved health institute and procured equipment provided by the Project properly and effectively, as a condition for the Project to be implemented. Meanwhile, the Pakistani side has also agreed to include these budgets into PC-1.

7-2. The Team explained that security measures are indispensable for effective implementation of the Project. The Pakistani side agreed to take all necessary measures to secure the safety of the members of the Project.

7-3. The Pakistani side agreed to formulate PC-1 with referring to information of the Project from Japanese side. The Pakistani side also agreed on key actions with timetable as follows. The JICA Team reiterated that timely implementation of these actions were crucial for Japanese Government to make a commitment of grant for the Project. The Pakistani side agreed to monitor and expedite the progress with reference to the plan.

December 20, 2011	Development of PC-I (Draft) by Pakistani side
Beginning of February, 2012	Provision of necessary information by Japanese side
February 10, 2012	Development of PC-I (Final) by Pakistani side
March 20, 2012	Approval by Provincial Development Working Party (PDWP)
April 20, 2012	Approval by Central Development Working Party (CDWP)
June 20, 2012	Approval by Executive Committee of National Economic Council (ECNEC) (If it is required)

Annex-1 Location of the Project site

Annex-2 Equipment List


Annex-3 Components of Facilities

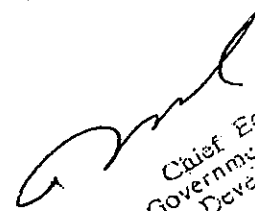
Annex-4 Japan's Grant Aid

Annex-5 Flow Chart of Japan's Grant Aid Procedures

Annex-6 Major Undertakings by Each Government

Annex-7 Minute of Meeting with the representative of JICA regarding "Child Healthcare Institute at Karachi" Held on 9<sup>th</sup> July, 2010 at 10:30 AM under the Chairmanship of the Secretary Health Department, Government of Sindh

  
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HEALTH DEPARTMENT

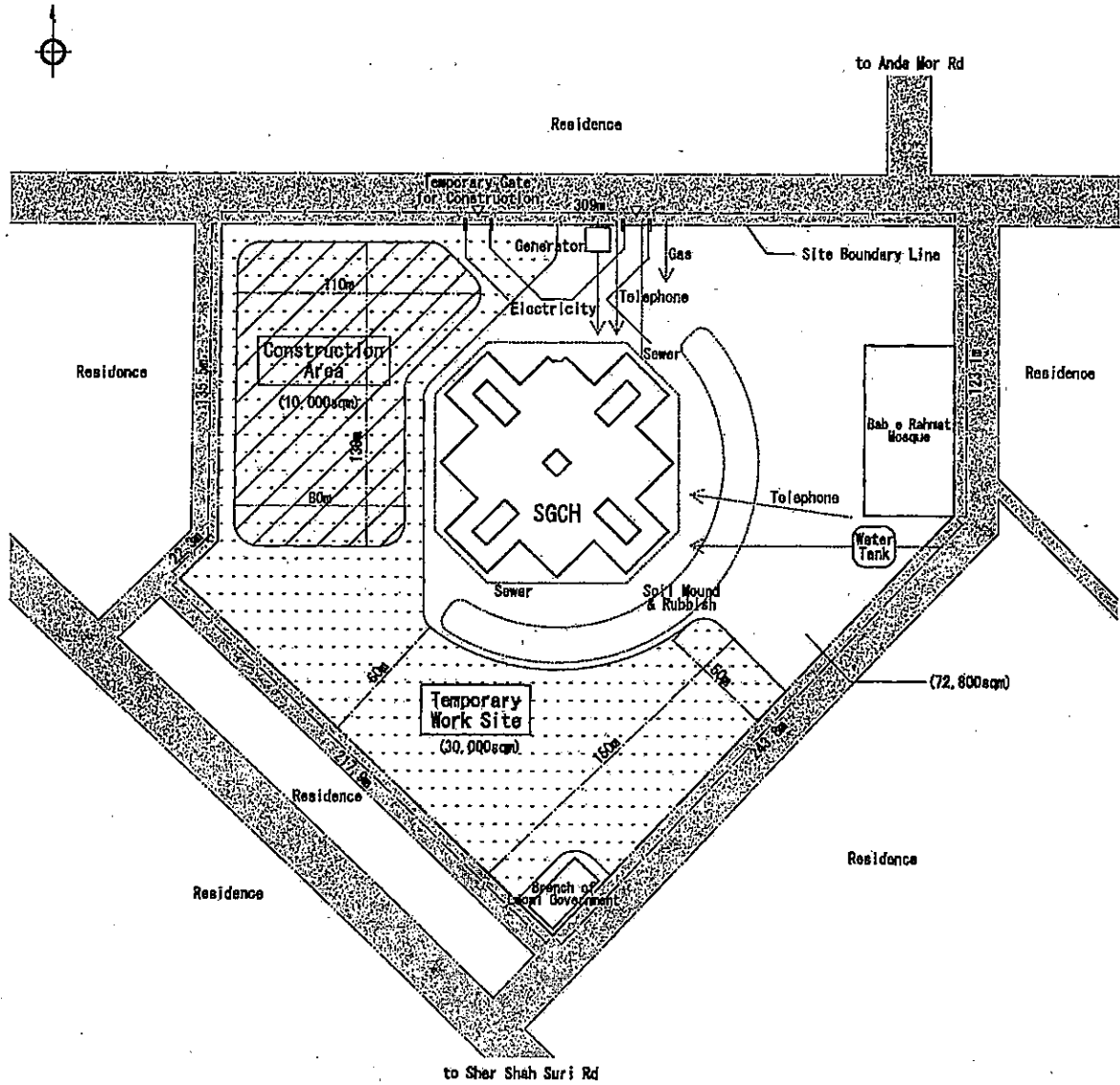
  
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Annex-1 Location of the Project Site

Location of the Project Site

Address : St-18 Sector 14-B Opposite Maria Homes,  
Near Nagan Chowrangi, North Karachi



*Rezaul Alam*  
GOVERNMENT OF SINDH  
HEALTH DEPARTMENT

*[Signature]*  
Chief Economist  
Government of Sindh  
Planning & Development Department

*[Handwritten initials]*

## Equipment List

Department	No.	Name of Item	Priority
Pediatric Medicine	1	PM-1 Hospital Beds with mattress	A
Pediatric Medicine	2	PM-2 Bed Sid Lockers	A
Pediatric Medicine	3	PM-3 Over Bed Table	A
Pediatric Medicine	4	PM-4 Electric Suction Machine(S)	A
Pediatric Medicine	5	PM-5 Glucometer	A
Pediatric Medicine	6	PM-6 Laryngoscope (Children Blades)	A
Pediatric Medicine	7	PM-7 Diagnostic Set (ENT)	A
Pediatric Medicine	8	PM-8 Ophthalmoscope	A
Pediatric Medicine	9	PM-9 Pleural aspiration Set (children)	C
Pediatric Medicine	10	PM-10 BP Apparatus with stand mercury (paed Cuff)	A
Pediatric Medicine	11	PM-11 Ambu Bag (with different size masks)	A
Pediatric Medicine	12	PM-12 Ultrasonic Nebulizer (Hospital Use)	A
Pediatric Medicine	13	PM-13 Infusion pumps	A
Pediatric Medicine	14	PM-14 Pulse Oxymeter	A
Pediatric Medicine	15	PM-15 Saturation monitor(Patient monitor)	A
Pediatric Medicine	16	PM-16 Oxygen Concentrator	A
Pediatric Medicine	17	PM-17 Patient Trolley	A
Pediatric Medicine	18	PM-18 Portable X-RAY machine 300 MA	C
Pediatric Medicine	19	PM-19 ECG Machine one channel	B
Pediatric Medicine	20	PM-20 Refrigerator 18 Sft	A
Pediatric Medicine	21	PM-21 X-Ray viewing box	A
Pediatric Medicine (PICU)	22	PM-22 Defibrillator	A
Pediatric Medicine	23	PM-23 Pediatric Upper GI endoscope	C
Pediatric Medicine (PICU)	24	PM-24 Central oxygen system	facility
Pediatric Medicine	25	PM-25 CO2 monitor	C
Pediatric Medicine	26	PM-26 Electric Water Filter	facility
Pediatric Medicine	27	PM-27 Ward Screen 4 fold	A
Pediatric Medicine	28	PM-28 Dialysis units	C
Pediatric Surgery	29	PS-1 Anesthesia machine with Ventilator	A
Pediatric Surgery	30	PS-2 Laparoscope	C
Pediatric Surgery	31	PS-3 Instrument Trolley	A
Pediatric Surgery	32	PS-4 Diathermy Machine	C
Pediatric Surgery	33	PS-5 Autoclave	C
Pediatric Surgery	34	PS-6 Sterilizer (Boiling sterilizer)	A
Pediatric Surgery	35	PS-7 Patients Trolley(ward to OT)	B
Pediatric Surgery	36	PS-8 Ambo Bag One litter (rubber reusable)for paed.	A
Pediatric Surgery	37	PS-9 Ambo Bag Two litter (rubber reusable)	A
Pediatric Surgery	38	PS-10 Ambo Bag Three litter (rubber reusable)	C
Pediatric Surgery	39	PS-11 X-Ray viewing box (for viewing 2 X-Rays, Standard Size)	A
Pediatric Surgery	40	PS-12 Computer P4 with laser printer Table & Chair	C
Pediatric Surgery	41	PS-13 Refrigerator 18 Sft	A
Emergency	42	E-1 Electric Suction Machine(S)	A
Emergency	43	E-2 BP Apparatus with stand mercury	A
Emergency	44	E-3 Diagnostic Set (ENT)	A
Emergency	45	E-4 Ophthalmoscope (Keeler)	A
Emergency	46	E-5 Laryngoscope (Peads)	A
Emergency	47	E-6 Instrument Trolley	A
Emergency	48	E-7 Electric Water	facility
Emergency	49	E-8 Water Filter	facility
Emergency	50	E-9 Minor Instrument for dressing	A
Emergency	51	E-10 Personal Computer with Printer Table & Chairs	C
Emergency	52	E-11 Emergency Beds	A
Emergency	New	E-12 Ultrasonic Nebulizer (Hospital Use)	A
Emergency	New	E-13 Defibrillator	A
Emergency	New	E-14 First aid kit	A
Emergency	New	E-15 ECG machine	A
Emergency	New	E-16 Pulse Oxymeter	A
Emergency	New	E-17 Infusion pumps	A
OPD(ENT, Eye)	53	OPD-1 Day care beds	C
OPD(ENT, Eye)	54	OPD-2 Bed Side Locker	C
OPD(ENT, Eye)	55	OPD-3 Over Bed Table	C
OPD(ENT, Eye)	56	OPD-4 BP Apparatus Mercury with Stands (peads)	A
OPD(ENT, Eye)	57	OPD-5 Diagnostic Set (ENT)	A
OPD(ENT, Eye)	58	OPD-6 Ambu Bag (peads)	A
OPD(ENT, Eye)	59	OPD-7 Trolley for Patients	A
OPD(ENT, Eye)	60	OPD-8 Wheel Chairs	A

*R. Jagan Mohan*  
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GOVERNMENT OF SINDH  
HEALTH DEPARTMENT

*[Signature]*  
Chief Economist  
Government of Sindh  
Planning & Development Department

*[Signature]*

## Equipment List

Department	No.	Name of Item	Priority
OPD(ENT, Eye)	61	OPD-9 Refrigerator	A
OPD(ENT, Eye)	62	OPD-10 Infusion pumps	C
OPD(ENT, Eye)	63	OPD-11 Suction Machine(S)	B
OPD(ENT, Eye)	64	OPD-12 CO2 monitor	C
OPD(ENT, Eye)	65	OPD-13 Pulse Oxymeter	B
OPD(ENT, Eye)	66	OPD-14 ABG Analyzer	C
OPD(ENT, Eye)	67	OPD-15 ECG Machine	C
OPD(ENT, Eye)	68	OPD-16 Ophthalmoscope	B
OPD(ENT, Eye)	69	OPD-17 Slit lamp	B
OPD(ENT, Eye)	70	OPD-18 Refraction Set	B
OPD(ENT, Eye)	71	OPD-19 Retinoscope	B
OPD(ENT, Eye)	72	OPD-20 Indirect Laryngoscope	B
OPD(ENT, Eye)	73	OPD-21 ENT Set	B
OPD(ENT, Eye)	74	OPD-22 Minor Instrument for ENT examination	B
Burn unit	75	B-1 Skin Grafting Kinfes	C
Burn unit	76	B-2 Kkin graft mesher carrier free mesher	C
Burn unit	77	B-3 Pneumatic demotome complete with hand piece case 4	C
Burn unit	78	B-4 Autoclave (400 lit)	C
Burn unit	79	B-5 Surgical Drum	C
Burn unit	80	B-6 Oxygen cylinder	C
Burn unit	81	B-7 Oxygen flow meter	C
Burn unit	82	B-8 Split air conditioner with stablixer	C
Burn unit	83	B-9 Diathermy bipolar	C
Burn unit	84	B-10 Suction Machine	C
Burn unit	85	B-11 Basic Instruments Set	C
Burn unit	86	B-12 Micro Surgical instruments set	C
Burn unit	87	B-13 Anesthesia machine with vent	C
Burn unit	88	B-14 Ceiling ot light	C
Burn unit	89	B-15 Laryngoscope	C
Burn unit	90	B-16 Infusion pumps	C
Burn unit	91	B-17 Multi para meter for ot	C
Burn unit	92	B-18 Central monitoring system	C
Burn unit	93	B-19 Central Oxygen supply	C
Burn unit	94	B-20 Defibrillator	C
Burn unit	95	B-21 Ventilator paed	C
Burn unit -	96	B-22 Hospital Beds with mattress	C
Burn unit	97	B-23 Bed Sid Lockers	C
ORT & EPI	98	O&E-1 Refrigerator for vaccice (Ice line Refrigerator)	A
ORT & EPI	99	O&E-2 ORT Utensils	C
ORT & EPI	100	O&E-3 Baby Toys	C
ORT & EPI	101	O&E-4 Baby Cots(normal chair with arms )	A
Day care center	102	D-1 Baby Cots	C
Day care center	103	D-2 Hospital Beds	C
Physiotherapy	104	P-1 Baby Cots	C
Physiotherapy	105	P-2 Ultrasound therapy unit	B
Physiotherapy	106	P-3 Tunnel bath	C
Physiotherapy	107	P-4 Quadrilep Drill	C
Physiotherapy	108	P-5 Cycle	A
Physiotherapy	109	P-6 Weight Training	A
Physiotherapy	110	P-7 Stoll bars(parallel bars)	A
Physiotherapy	111	P-8 Walking support bards with walker(walking support bar)	A
Physiotherapy	112	P-9 Rehabilitation chairs of defferent sizes	A
Physiotherapy	113	P-10 Jumping jacks(tranpolin)	A
Physiotherapy	114	P-11 Physiotherapy Machine with all accessories	C
Physiotherapy	115	P-12 Tense(finger exciser)	B
Physiotherapy	New	P-13 occupational therapy set	A
Neonatal care unit	116	N-1 Baby Cots	A
Neonatal care unit	117	N-2 Baby Incubator	B
Neonatal care unit	118	N-3 ICU Incubator	C
Neonatal care unit	119	N-4 ICU Vantilator	C
Neonatal care unit	120	N-5 ICU Monitors(patient monitors)	A
Neonatal care unit	121	N-6 Electric Sunction Machine(S)	A
Neonatal care unit	122	N-7 Phototherapy Unit	A
Neonatal care unit	123	N-8 Oxygen Head Box (Neonatal Size)	A
Neonatal care unit	124	N-9 BP Set (Neonatal)	A
Neonatal care unit	125	N-10 Baby Ventilators	C
Neonatal care unit	126	N-11 Blood Gas Machine(installed at Labo)	A

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GOVERNMENT OF SINDH,  
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## Equipment List

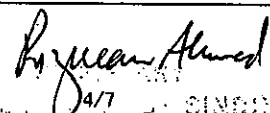
Department	No.	No.	Name of Item	Priority
Neonatal care unit	127	N-12	Electrolytes Machine(Na,K,Cl,HCO3)(installed at Labo)	A
Neonatal care unit	128	N-13	Pulse Oxymeter	A
Neonatal care unit	129	N-14	Saturation monitor	C
Neonatal care unit	130	N-15	Radiant Warmer	C
Neonatal care unit	131	N-16	X-Ray viewing box	A
Neonatal care unit	132	N-17	Neonatal Resuscitate	C
Neonatal care unit	133	N-18	Ictrometer (Janundice Meter)	C
Neonatal care unit	134	N-19	Infusion pumps	A
Neonatal care unit	135	N-20	Syringe Pumps	A
Neonatal care unit	136	N-21	Overhead Warmers	C
Neonatal care unit	137	N-22	Computer P4 with laser printer Table & Chair	C
Neonatal care unit	138	N-23	Neonatal resuscitate Trolley(baby stretcher with warming & O2 bottle)	A
Neonatal care unit	New	N-24	Neonatal height & weight scale	A
Thalassemia	139	T-1	Meia System (Micro Particle Emzyme Immuno Assay)	C
Thalassemia	140	T-2	HPLC-Diagnostic Equipments for Thalassaemia	C
Thalassemia	141	T-3	Cryofuge (Automated Refrigerated Centrifuge)	C
Thalassemia	142	T-4	Cryofuge (Automated Refrigerated Centrifuge)	C
Thalassemia	143	T-5	Freezer with Temp. Recorder (-70C)	C
Thalassemia	144	T-6	Freezer with Temp. Recorder Service Centre (-20C)	C
Thalassemia	145	T-7	Refrigerator (2C - 8C)	C
Thalassemia	146	T-8	Blood Bank Refrigerator (2C to 6C)	C
Thalassemia	147	T-9	Blood Bank Refrigerator (2C to 6C)	C
Thalassemia	148	T-10	Store Refrigerator (2C to 6C)	C
Thalassemia	149	T-11	ECG machine	C
Thalassemia	150	T-12	Blood Bag Shaker	C
Thalassemia	151	T-13	Tube Sealer	C
Thalassemia	152	T-14	Laminar Flow	C
Thalassemia	153	T-15	Microscope	C
Thalassemia	154	T-16	Haemoglobinometer	C
Thalassemia	155	T-17	Blood Bag Expressor	C
Thalassemia	156	T-18	Water bath	C
Thalassemia	157	T-19	Incubator (Serlizer)	C
Thalassemia	158	T-20	Table Top Centrifuge	C
Thalassemia	159	T-21	Adjustable and Fix juster	C
Thalassemia	160	T-22	Gel System	C
Thalassemia	161	T-23	Central oxygen supply	C
Thalassemia	162	T-24	Personel Computer with Printer Table & Chairs	C
Thalassemia	163	T-25	Split air conditioner	C
Thalassemia	164	T-26	UPS IKVA	C
Thalassemia	165	T-27	Stablizzer	C
Thalassemia	166	T-28	TV 32"	C
Thalassemia	167	T-29	Chari bed titled for thalassemia Patient	C
Thalassemia	168	T-30	Transfusion Chairs	C
Pathology	169	PA-1	Lab incubator Large Size	A
Pathology	170	PA-2	Lab incubator Small Size	A
Pathology	171	PA-3	Auto Clave	A
Pathology	172	PA-4	Hot Air Oven	A
Pathology	173	PA-5	Elisa (Plate reader) with printer	C
Pathology	174	PA-6	Laminator flow (cabinet)	C
Pathology	175	PA-7	Centrifuge bench type	A
Pathology	176	PA-8	Binocular Microscope	A
Pathology	177	PA-9	Anaerobic jar	C
Pathology	178	PA-10	Deinizer(Deionizer)	C
Pathology	179	PA-11	Distillation plant	facility
Pathology	180	PA-12	Domestic Refrigerator 12 CFT	A
Pathology	181	PA-13	Electronic weighing balance	A
Pathology	182	PA-14	Computer with printer	C
Pathology	New	PA-15	Laboratory side table set	A
Pathology	New	PA-16	Laboratory central table set	A
Chemistry	183	C-1	Photometer	A
Chemistry	184	C-2	Automated Chemistry Analyzer	B
Chemistry	185	C-3	Color meter	B
Chemistry	186	C-4	Centrifuge Machine bench type	C
Chemistry	187	C-5	Hot Air Oven	C
Chemistry	188	C-6	Refrigerators 12 CFT	C
Chemistry	189	C-7	Electrolyte Analyzer	C
Chemistry	190	C-8	Chemo Immunoleccent (for hormone & tumor markers)	C

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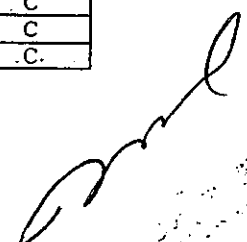
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## Equipment List

Department	No.	Name of Item	Priority
Chemistry	191	C-9 Computer with printer	C
Chemistry	192	C-10 Miscellaneous Disposable, Glass ware etc	C
Hematology	193	H-1 Hematology Analyzer 03 parts differential	A
Hematology	194	H-2 Hematology Analyzer 06 parts differential	C
Hematology	195	H-3 PCR Machine with accessories	C
Hematology	196	H-4 ESR system(blood sedimentation set)	A
Hematology	197	H-5 Flow Cytometer	C
Hematology	198	H-6 Binocular microscope	B
Hematology	199	H-7 Water bath	B
Hematology	200	H-8 Lab incubator Small Size	B
Hematology	201	H-9 Hot Air Oven	B
Hematology	202	H-10 Hemoglobin Electrophoresis apparatus	C
Hematology	203	H-11 Power supply	facility
Hematology	204	H-12 Densitometer	C
Hematology	205	H-13 Coagulation analyzer	A
Hematology	206	H-14 Centrifuge Machine bench type	C
Hematology	207	H-15 Sample mixer (roller)	A
Hematology	208	H-16 Platelets Aggregometer	C
Hematology	209	H-17 Platelet with incubator agitator	C
Hematology	210	H-18 Bone marrow aspiration needles	C
Hematology	211	H-19 Bone marrow trephine biopsy needles	C
Hematology	212	H-20 Autoclave	C
Hematology	213	H-21 DLC manual counter	A
Hematology	214	H-22 Slide storage cabinets	A
Hematology	215	H-23 Computer with printer	C
Hematology	216	H-24 Domestic Refrigerator 18 CFT	B
Hematology	217	H-25 Beds with mattress	C
Hematology	218	H-26 Fowler Bed Single crank with mattress	C
Hematology	219	H-27 Distillation plant(water distiller)	A
Blood bank	220	BB-1 Microscope binocular	Pending
Blood bank	221	BB-2 Clinical Centrifuge Machine 8000 rpm	Pending
Blood bank	222	BB-3 Water bath	Pending
Blood bank	223	BB-4 Hot Air Oven	Pending
Blood bank	224	BB-5 product preparation	Pending
Blood bank	225	BB-6 Elisa (Plate reader) with printer & automated washer	Pending
Blood bank	226	BB-7 Domestic Refrigerator	Pending
Blood bank	227	BB-8 Blood bank refrigerator with 4+2C	Pending
Blood bank	228	BB-9 Refrigerator centrifuge for blood bags	Pending
Blood bank	229	BB-10 Platelets incubator with agitator	Pending
Blood bank	230	BB-11 Cell separator (Aphaeresis apparatus)	Pending
Blood bank	231	BB-12 Clinical microscopes	Pending
Blood bank	232	BB-13 Blood Donor bed (SS)	Pending
Blood bank	233	BB-14 Computer with printer	Pending
Histopathology	234	HI-1 Microscope binocular	C
Histopathology	235	HI-2 Tissue processor with fume hood	C
Histopathology	236	HI-3 Microtome with disposable blades and conventional knife	C
Histopathology	237	HI-4 Cytospin	C
Histopathology	238	HI-5 Wax dispenser	C
Histopathology	239	HI-6 Tissue floating bath	C
Histopathology	240	HI-7 Slide warmer	C
Histopathology	241	HI-8 Cryostat	C
Histopathology	242	HI-9 Frozen section microtome	C
Histopathology	243	HI-10 Bone cutting saw	C
Histopathology	244	HI-11 Block Storage cabinet	C
Histopathology	245	HI-12 Slide Storage cabinet	C
Histopathology	246	HI-13 Computer + printer	C
Histopathology	247	HI-14 Refrigerator 18 CFT	C
Histopathology	248	HI-15 Centrifuge Machine	C
Histopathology	249	HI-16 Hot Air Oven	C
Histopathology	250	HI-17 Lab incubator	C
Histopathology	251	HI-18 Miscellaneous/Glass ware	C
Cold storage	252	CS-1 Refrigerator 12 CFT	A
Cold storage	253	CS-2 Deep Freezer Domestic	A
Cold storage	254	CS-3 Computer Networking software	C
Cold storage	255	CS-4 Server	C
Radiology	256	R-1 M.R.I	C
Radiology	257	R-2 C.T. Scanner Machine	C

  
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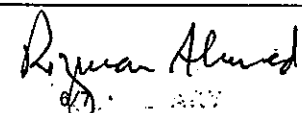
## Equipment List

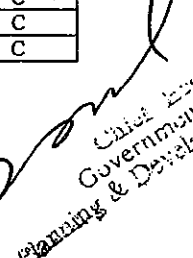
Department	No.	Name of Item	Priority
Radiology	258	R-3 X-Ray Unit 500 MA (with fluoroscopy function)	A
Radiology	259	R-4 Ultrasound Machine General Purpose	A
Radiology	260	R-5 Radiology Accessories (sets)	A
Radiology	261	R-6 Daylight Film Processor	A
Radiology	262	R-7 Portable X-Ray Plant 300 MA	A
Radiology	263	R-8 Colour Doppler Ultrasound Machine	A
Radiology	264	R-9 Computer with Laser Printer and Accessories	C
Radiology	265	R-10 Portable Ultracooound	A
Radiology	266	R-11 EEG	B
Radiology	267	R-12 EMG/NCV Machine	B
Radiology	268	R-13 Bera(function of bera is incorporated with EMG machine)	C
OT	269	OT-1 Operation Tables	A
OT	270	OT-2 OT Lights (Ceiling) Large	A
OT	271	OT-3 Halothane) and Gas Monitor	A
OT	272	OT-4 Electric Suction Machine(L)	A
OT	273	OT-5 Under Water Cuttin)	facility
OT	274	OT-6 X-Ray Viewing Box	A
OT	275	OT-7 Instrument Trolley	A
OT	276	OT-8 Infusion pumps	A
OT	277	OT-9 BP Apparatus with stand (maercury)	A
OT	278	OT-10 Instrument Cabinet (7ft x 3ft x 2ft with two portion)	A
OT	279	OT-11 CSSD Sterilization System A. Washing and Scrubbing B. Disinfecter Machine C. Autoclave. Further more store department area for keeping instrument, Air Line, Ethylene Oxide, tub for washing, cleaner for instrument and ultrasonic are also part of CSSD System	A
OT	280	OT-12 Major Operation Sets	B
OT	281	OT-13 Minor Operation Sets	A
OT	282	OT-14 Recovery Trolley's	A
OT	283	OT-15 ICU Beds for Recovery Room	A
OT	284	OT-16 Capnograph for Each OT(multipara monitor incl.Co2)	A
OT	285	OT-17 Laryngoscope (all 4 blades)	A
OT	286	OT-18 Laryngoscope (maglia with all 4 blades)	C
OT	287	OT-19 Esophageal Stethoscope	C
OT	288	OT-20 Peripheral Nerve Simulator	B
OT	289	OT-21 Glucometer	A
OT	290	OT-22 Blood Warmer	A
OT	291	OT-23 Fiberoptic Laryngoscope	B
OT	292	OT-24 Diathermy Unit	A
OT	293	OT-25 Core Body Temperature Monitor	C
OT	294	OT-26 Mobile Light (rechargable with 5 bulbs)with battery backup	A
OT	295	OT-27 Ambo Bag One litter (rubber reusable)for paed.	A
OT	296	OT-28 Ambo Bag Two litter (rubber reusable)for adrescent child	A
OT	297	OT-29 Ambo Bag Three litter (rubber reusable)	C
OT	298	OT-30 Patient Trolley	C
OT	299	OT-31 Stretchers with Trolley	C
OT	300	OT-32 Minor O.T. Table	A
OT	301	OT-33 Minor O.T. Lights	A
OT	302	OT-34 Minor O.T. Instrument set for paed	C
OT	303	OT-35 Auto Clave(boiling sterilizer)	A
PS Theater complex	304	PST-1 Rigid Pediatric Sigmoidoscope	A
PS Theater complex	305	PST-2 Management Patient O.A.	C
PS Theater complex	306	PST-3 Neonatal resuscitation trolley	A
PS Theater complex	307	PST-4 Rigid Bronchoscope	A
PS Theater complex	308	PST-5 Oesophago Scope wigid	B
PS Theater complex	309	PST-6 Bronchoscope	C
PS Theater complex	310	PST-7 Cystoscope	C
PS Theater complex	311	PST-8 Resctoscope	C
PS Theater complex	312	PST-9 Oesophagel Dilator	B
Dental surgery	313	D-1 Dentel Wlit with all accessories	C
Dental surgery	314	D-2 X-Ray unit (belmond)spot type	A
Dental surgery	315	D-3 Autoclave B-cycle(boiling sterilizer)	A
Dental surgery	316	D-4 X-Ray film (50 packets)	C
Dental surgery	317	D-5 Micro motor	C
Dental surgery	318	D-6 Hand piece	C
Dental surgery	319	D-7 Surgical instrument	C
Dental surgery	320	D-8 Dental Material	C
Dental surgery	321	D-9 Refrigerator	C

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Health & Development Department

## Equipment List

Department	No.	Name of Item	Priority
Dental surgery	322	D-10 Computer P-4 with Laser Printer	C
Medical Education	323	ME-1 Infanto head for intubation	C
Medical Education	324	ME-2 Resusci baby for cardiopulmonary resuscitation)	B
Medical Education	325	ME-3 Infant dummy for resuscitation	C
Medical Education	326	ME-4 Child dummy	C
Medical Education	327	ME-5 Simulator for I/V access	C
Medical Education	328	ME-6 Dummy of Body (Pelvis & Abdomen) Model	C
Medical Education	329	ME-7 Fetus Model	C
Medical Education	330	ME-8 Twin Model	C
Medical Education	331	ME-9 Breech Model	C
Medical Education	332	ME-10 Placenta Model	C
Medical Education	333	ME-11 Bony Pelvic Model	C
Medical Education	334	ME-12 Computer P-4 with Laser Printer	C
Medical Education	335	ME-13 Examination Couch	C
Medical Education	336	ME-14 X-Ray Illuminator	C
Medical Education	337	ME-15 Overhead Projector with Screen	C
Medical Education	338	ME-16 Slide Projector	C
Medical Education	339	ME-17 Multimedia with Screen	C
Auditorium	340	A-1 Easy chair	C
Auditorium	341	A-2 Computer P-4 with Laser Printer	C
Auditorium	342	A-3 Overhead Projector with Screen	C
Auditorium	343	A-4 Slide Projector	C
Auditorium	344	A-5 Multimedia with Screen	C
Auditorium	345	A-6 Speaker System	C
Auditorium	346	A-7 Dice for speakers	C
Auditorium	347	A-8 V.C.R	C
Auditorium	348	A-9 D.V.D	C
Auditorium	349	A-10 TV 32"	C
Reception	350	RE-1 Reception Glass Counter	facility
Reception	351	RE-2 Computer P-4 with Laser Printer	C
Hospital	352	H-1 Generator 100 KVA	facility
Hospital	353	H-2 Sewerage Treatment Plant	facility
Hospital	354	H-3 House Keeping Equipments	C
Hospital	355	H-4 Ambulances	B
Hospital	356	H-5 Incinerator	A
Nursing hostel	357	NH-1 Room Bed	C
Nursing hostel	358	NH-2 Room Chairs	C
Nursing hostel	359	NH-3 Sui Gas burners for kitchen	C
Nursing hostel	360	NH-4 Crocker/utensils for mess	C
Nursing hostel	361	NH-5 Electric Water Fitter	C
Nursing hostel	362	NH-6 Electric Water Cooler	C
Nursing hostel	363	NH-7 Reading Table	C
Doctor hostel	364	DH-1 Room Bed	C
Doctor hostel	365	DH-2 Room Chairs	C
Doctor hostel	366	DH-3 Sui Gas burners for kitchen	C
Doctor hostel	367	DH-4 Crocker/utensils for mess	C
Doctor hostel	368	DH-5 Electric Water Fitter	C
Doctor hostel	369	DH-6 Electric Water Cooler	C
Doctor hostel	370	DH-7 Reading Table	C
Pray area	371	P-1 Carpets for Prayers	C
Pray area	372	P-2 Pesh Imam membru	C
Pray area	373	P-3 Gas Geyzer	C
Pray area	374	P-4 Electric Water Cooler	C
Pray area	375	P-5 Public Address System	C
CCU	376	CCU-1 E.C.G Machine	C
CCU	377	CCU-2 C.C.U Beds with mattress	C
CCU	378	CCU-3 Patients Trolley	C
CCU	379	CCU-4 Wheel Chairs	C
CCU	380	CCU-5 Strechrs with Trolly	C
CCU	381	CCU-6 Bed Side Locker	C
CCU	382	CCU-7 Overhead Bed Tables	C
CCU	383	CCU-8 Echo Cardiography Machine with colour dopler	C
CCU	384	CCU-9 Angiocardiography Machine	C
CCU	385	CCU-10 Monitors	C
CCU	386	CCU-11 ECG Machine	C
CCU	387	CCU-12 Ambu Bags Neonatal	C
CCU	388	CCU-13 Infant	C
CCU	389	CCU-14 Child	C

  
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 Planning & Development Department





## Equipment List

Department	No.	Name of Item	Priority
CCU	390	Langoscope	C
CCU	391	BP Apparatus	C
Library	392	Book shelves	C
Library	393	File Ranks	C
Library	394	Iron Almirah for Books	C
Library	395	Office Table	C
Library	396	Office Chairs	C
Library	397	Revolving Chairs	C
Library	398	Computer P-4 with Laser Printer	C
Library	399	Chairs for readers	C
Library	400	Oval table for readers	C
Library	401	Books/Periodicals	C
Pharmacy	402	Racks Iron	A
Pharmacy	403	Refrigerator	A
Pharmacy	404	Iron Almirah	A
Pharmacy	405	Computer P-4 with Laser Printer	C
Kitchen	406	Sui Gas burners	C
Kitchen	407	Utensils and wares (Crockery)	C
Kitchen	408	Refrigerators	C
Kitchen	409	Water Cooler Electric	C
Kitchen	410	Canteen Chairs	C
Kitchen	411	Canteen Tables	C
Registration counters	412	File Ranks	A
Registration counters	413	Computer P-4 with Laser Printer	C
Registration counters	414	Officer Chairs	facility
Registration counters hall	415	Reception Glass Counter	facility
Registration counters hall	416	Computer P-4 with Laser Printer	C
Registration counters hall	417	Patients Waiting Chairs	facility

## Remarks

- Facility : The components will be finalized subject to further survey and assessment in Japan.  
Quantity : To be finalized after further field survey, discussion and domestic analysis  
A : Understood the necessity, and subject to be procured under this grant  
B : Understood the necessity, but need further domestic analysis for finalization  
C : Not to be considered under this grant

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*Asghar Ahmed*  
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## Annex-3 Components of Facilities

### Components of Facilities

#### 1. Components of New Buildings under Japan's Grant Aid

- Special Out Patient Clinic
- Surgery Department including Surgical Clinic and Operation Theater
- Emergency Department
- Pediatric Medical Wards including TFC(Therapeutic Feeding Center) and Play Area
- Image Diagnostics Department
- Laboratory Department
- ICU
- NICU
- Camp Office for Superintendent
- Secondary Pharmacy
- Incidental Facilities for New Buildings
- Connecting Corridors to the Existing Building

#### 2. Components of Existing Building arranged by Pakistani Side

- Administration Office
- General Out Patient Clinic including E.N.T and Dermatology
- Well Baby Clinic
- Malnutrition Clinic & Day Care Unit
- Infectious Disease Clinic & Surveillance Room
- EPI
- DOTS and TB clinic
- Pharmacy
- X-ray (existing unit)
- Dental Department
- Laboratory (existing unit)
- Physiotherapy & Rehabilitation
- Workshop
- Medical Education Department
- Kitchen
- Storage
- Play area

Note: The above components will be finalized subject to further survey and assessment in Japan.

*Rizwan Ahmad*  
GOVERNMENT  
OF SINDH  
HEALTH DEPARTMENT

*[Signature]*  
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HEALTH DEPARTMENT

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## ANNEX-4 JAPAN'S GRANT AID

The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, a new JICA law was entered into effect on October 1, 2008. Based on this law and the decision of the GOJ, JICA has become the executing agency of the Grant Aid for General Projects, for Fisheries and for Cultural Cooperation, etc.

The Grant Aid is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

### 1. Grant Aid Procedures

The Japanese Grant Aid is supplied through following procedures :

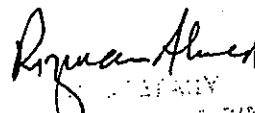
- Preparatory Survey
  - The Survey conducted by JICA
- Appraisal & Approval
  - Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Authority for Determining Implementation
  - The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as "the G/A")
  - Agreement concluded between JICA and a recipient country
- Implementation
  - Implementation of the Project on the basis of the G/A

### 2. Preparatory Survey

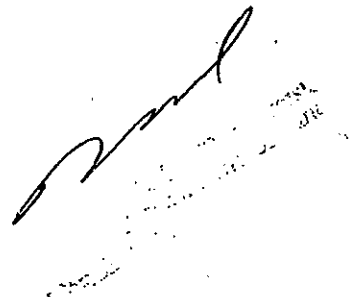
#### (1) Contents of the Survey

The aim of the preparatory Survey is to provide a basic document necessary for the appraisal of the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of an outline design of the Project.
- Estimation of costs of the Project.

  
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The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Outline Design of the Project is confirmed based on the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the Report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the appropriateness of the Project.

**3. Japan's Grant Aid Scheme**

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the recipient country to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

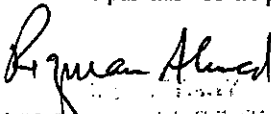
(2) Selection of Consultants

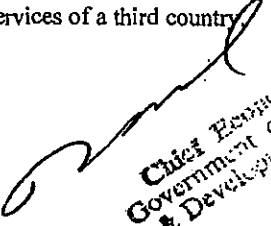
In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Japanese Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When JICA and the Government of the recipient country or its designated authority deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

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However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals".

(4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by JICA. This "Verification" is deemed necessary to fulfill accountability to Japanese taxpayers.

(5) Major undertakings to be taken by the Government of the Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as Annex-6.

(6) "Proper Use"

The Government of the recipient country is required to maintain and use properly and effectively the facilities constructed and the equipment purchased under the Grant Aid, to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Grant Aid.

(7) "Export and Re-export"

The products purchased under the Grant Aid should not be exported or re-exported from the recipient country.

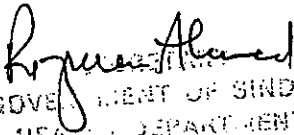
(8) Banking Arrangements (B/A)

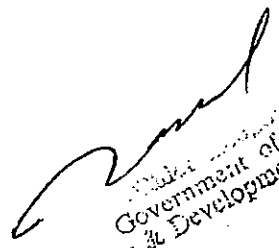
a) The Government of the recipient country or its designated authority should open an account under the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

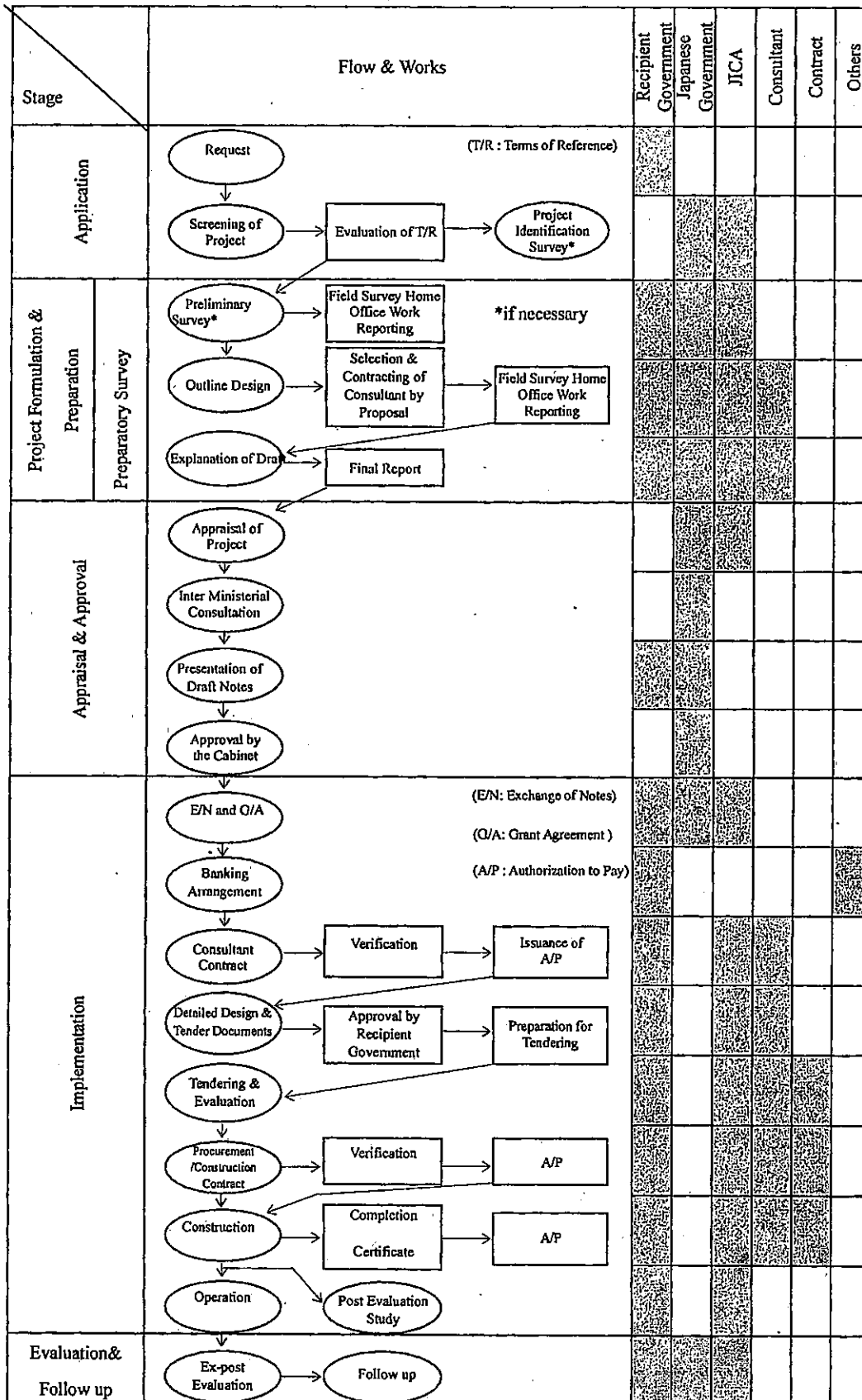
The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

  
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ANNEX-5 FLOW CHART OF JAPAN'S GRANT AID PROCEDURES



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 SECRETARY  
 GOVERNMENT OF SINDH,  
 HEAD OFFICE

*[Signature]*  
 SECRETARY  
 GOVERNMENT OF SINDH,  
 HEAD OFFICE

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ANNEX-6 Major Undertakings to be taken by Each Government			
No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	to secure a lot of land necessary for the implementation of the Project and to clear the site		●
2	To construct the following facilities		
	1) The building	●	
	2) The gates and fences in and around the site		●
	3) The parking lot	●	
	4) The road within the site	●	
	5) The road outside the site		●
3	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the site		
	1) Electricity		
	a. The distributing power line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site (receiving and elevated tanks)	●	
	3) Drainage		
	a. The city drainage main (for storm sewer and others to the site)		●
	b. The drainage system (for toilet sewer, common waste, storm drainage and others) within the site	●	
	4) Gas Supply		
	a. The city gas main to the site		●
	b. The gas supply system within the site	●	
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
4	To ensure prompt unloading and customs clearance of the products at ports of disembarkation in the recipient country and to assist internal transportation of the products		
	1) Marine (Air) transportation of the Products from Japan to the recipient country	●	
	2) Tax exemption and custom clearance of the Products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
5	to ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the Islamic Republic of Pakistan with respect to the purchase of the products and the services be exempted (With regard to the internal taxes, the total percentage of rates of Sales Tax imposed on the said supply shall be zero percent (0%) or Sales Tax imposed on the said supply shall be exempted)		●
6	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
7	To ensure that the Facilities and the products be maintained and used properly and effectively for the implementation of the Project		●
8	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project		●
9	To bear the following commissions paid to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
(B/A : Banking Arrangement, A/P : Authorization to pay)			

Signature  
 GOVERNMENT OF SINDH  
 DEPARTMENT

Chief Executive  
 Government of Sindh  
 Planning & Development

M

Attention: Sohail Sb.



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GOVERNMENT OF SINDH  
Health Department

**MINUTES OF MEETING WITH THE REPRESENTATIVES OF JICA  
REGARDING "CHILD HEALTHCARE INSTITUTE AT KARACHI" HELD  
ON 9<sup>TH</sup> JULY, 2010 AT 10:30 AM UNDER THE CHAIRMANSHIP OF THE  
SECRETARY HEALTH DEPARTMENT, GOVERNMENT OF SINDH.**

(LIST OF PARTICIPANTS ATTACHED)

The worthy Secretary Health welcomed the JICA delegation headed by Mr. Takemoto Keiichi seconded by Mr. Sohail Ahmed and appreciated JICA for extending help in establishment of Child Health institute Karachi.

The JICA representative asked for details of proposed human resource and its availability and capacity to run this institute. The Secretary Health responded that in fact our aim is to have in place an institute of high class Japanese Standard and as regards the availability of human resources, we have stream of specialist available and as regards other support staff, they do require commensurate trainings. He added that either with JICA assistance or locally we would arrange for pertinent training of technical staff, both medics and paramedics. The distinguished JICA representative responded that economy of Japan is not in much boom and due to this Japan would not support in training, at present. The worthy Secretary Health assured that Health Department had enough number of trained Specialists, doctors, nurses, paramedics and other technical people available at Karachi and any shortfall would be met from imparting local trainings to required numbers. On quarry, the Secretary Health stated that there were established modes of the recruitment through Public Services Commission, transfer and posting and hiring from open market.

Responding to the quarry of JICA representative, the worthy Secretary Health clarified that Government budget salaried and non-salaried were being financed through government annual budget and no fee being charged in public sector facilities for both diagnostic and treatment. The shortfalls for treatment had been met from the grants received from local philanthropists, Government Zakat fund (charity) and technical assistances from the donors like trainings (UNICEF, UNPPA etc). Regarding the budget allocation of both human resources and hospital, the Secretary Health informed that initial phase for budgeting of operational and human resource would be processed through submission S.N.E. with PC-IV i.e. project completion report to Planning & Development Department, Government of Sindh for issuance of No Objection Certificate and subsequently to Finance Department. For notifying Child Health Institute on regular/ non-development budget books, we would process it as special case. He added that in accordance to project requirements budget could be got approved even before the completion of project. On request of JICA representative photo copies of budget for tertiary care facilities and tentative human resource details of proposed Child Health institute Karachi were shared with them as directed by the Secretary Health.

Regarding the approval mechanism, worthy Secretary Health informed JICA delegation that after acceptance of Concept Proposal and Request to donors, if project happened to be mega and complex, a PC-II is prepared for approval of competent forum for hiring consultants for preparation of feasibility and PC-1 with estimates. The worthy Secretary Health pointed out that detail implementation strategy could be had with donors even without PC-1. The JICA

Mr. Sohail

Chief Economist  
Government of Sindh  
Planning & Development



FROM :

FAX NO. :

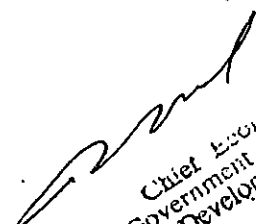
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representative stated that with PC-1 in place we could work out all roles and responsibilities as well as implementation details neatly. The Secretary Health agreed.

Finally the representative of JICA requested for allocation of funds for revamping and renovation of existing structure with erection of new building, the worthy Secretary Health assured of all counterpart support including thorough revamping and renovation of existing structure of Children Hospital North Karachi. The worthy Secretary Health again thanked the visiting delegation of JICA.

M. S. Khan

  
Chief Economist  
Government of Sindh  
Planning & Development Depart

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**LIST OF PARTICIPANTS OF THE MEETING WITH SECRETARY HEALTH WITH JICA  
REPRESENTATIVES ON 9<sup>TH</sup> JULY 2010**

Sr. No.	Name & Designation	
	<b>Health Department, Government of Sindh</b>	
1	Syed Hashim Raza Zaidi, Secretary Health	In Chair
2	Dr. Abdul Majid, Special Secretary (PH)	
3	Dr. Khalid Hussain Shaikh, Additional Secretary (Dev.)	
4	Mohsin Ahmed Shaikh, Additional Director Dev. (PH)	
5	Dr. Bina, Planning Officer	
	<b>JICA (Japanese International Cooperation Agency)</b>	
1	Mr. Keiichi Takemoto JICA Representative	
2	Mr. Sohail Ahmed, JICA Representative	

*Mr. [Signature]*

*[Signature]*  
Chief Economist,  
Government of Sindh,  
Planning & Development De

(2) 第二次概略設計調査



MINUTES OF DISCUSSIONS  
PREPARATORY SURVEY (FIELD SURVEY II)  
ON THE PROJECT FOR IMPROVEMENT OF CHILD HEALTH INSTITUTE IN KARACHI  
IN THE ISLAMIC REPUBLIC OF PAKISTAN

In response to a request from the Government of the Islamic Republic of Pakistan (hereinafter referred to as "the Pakistan"), the Government of Japan decided to conduct a Preparatory Survey on the Project for Improvement of Child Health Institute in Karachi (hereinafter referred to as "the Project" ) and entrusted the study to the Japan International Cooperation Agency ( hereinafter referred to as "JICA" ) .

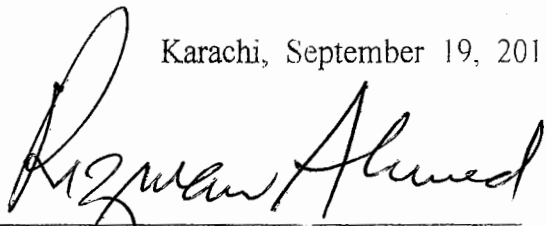
JICA dispatched the Preparatory Survey (Field Survey II) Team (hereinafter referred to as "the Team") to Pakistan, which is headed by Mr. Hideo Eguchi, Deputy Director General, Planning and Coordination, Human Development Department, JICA, and is scheduled to stay in the country from September 10 to September 29, 2011.

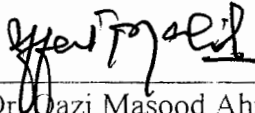
The Team held discussions with the officials concerned of the Government of Sindh, collected basic information and conducted a field survey at the study area.

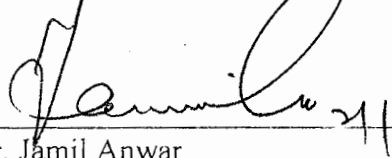
As a result of discussions and field survey, both parties confirmed the main items described in the attached sheets.

Karachi, September 19, 2011

  
Mr. Hideo Eguchi  
Leader  
Preparatory Survey Team  
Japan International Cooperation Agency

  
Mr. Rizwan Ahmed  
**SECRETARY**  
Secretary **GOVERNMENT OF SINDH**  
Health Department **HEALTH DEPARTMENT**  
Government of Sindh  
The Islamic Republic of Pakistan

  
Dr. Wazi Masood Ahmed  
Chief Economist  
Planning & Development Department  
Government of Sindh  
The Islamic Republic of Pakistan

  
Mr. Jamil Anwar  
Joint Secretary (ADB/Japan)  
Economic Affair Division  
The Islamic Republic of Pakistan

**Chief Economist,  
Government of Sindh,  
Planning & Development Department**

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to strengthen the services of the Child Health Institute in Karachi by improving its facilities and equipment.

### 2. Responsible and Implementing Agency

2-1. The Responsible Agency is Health Department, Government of Sindh.

2-2. Implementing Agency is Health Department, Government of Sindh.

### 3. Items requested by the Government of Pakistan.

3-1. After discussions between the Team and the Pakistani side, the items described in Annex-1, Annex-2, Annex-3, and Annex-4 were finally consented by both sides. JICA will assess the appropriateness of those requested items and will recommend to the Government of Japan for its approval.

3-2. Both sides agreed on the number of beds for new building as approximately 125 beds for inward, 8 incubators for NCU (Neonatal Care Unit), 10 cots for mother treatment, and 10 to 15 for ER(Emergency Room) treatment described in Annex-3.

3-3. Both sides agreed that 8 incubators in stock at the existing building shall be installed in NCU room at the new building.

3-4. Both sides agreed on the importance of professional staff assignment for newly established components at the Institute, especially anesthesia, ophthalmology, and ENT (Ear, Nose and Throat). The Pakistani side committed for staff assignment as Annex-6. The Pakistani side shall also provide recruitment plan and details regarding professional of anesthesia, ophthalmology, and ENT in Sindh to JICA by December 31, 2011.

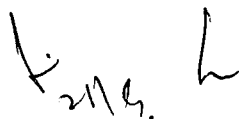
3-5. Both sides agreed that medical waste management and the necessity of incinerator at the Institute shall be determined after the survey on the feasibility to utilize the waste management system under the Karachi city government.

### 4. Staffing for the Project

4-1. The Pakistani side agreed to secure and allocate sufficient permanent staff described in Annex-5 and enough budgets to operate and maintain the improved health institute and procured equipment provided by the Project properly and effectively, as a condition for the Project to be implemented. Meanwhile, the Pakistani side has also agreed to include these staff described in Annex-5 and budgets into PC-1.

4-2. The Pakistani side agreed that it shall implement in-service training for paramedics in charge of NCU after allocating them, and ensure workable referral system from maternal clinics, outreach workers, and so on to function NCU.

  
Chief Economist,  
Government of Sindh,  
Planning & Development Department

  
2/1/11

## 5. Proper Maintenance of Equipment

The Pakistani side agreed that equipment maintenance shall be managed properly according to the nature of equipment as follows;

- i) Using capacity of electro medical directorate under the provincial health department,
- ii) Assignment of biomedical engineer and/or biomedical technician at the Institute, and
- iii) Regular maintenance contract with local agency/supplier for the equipment which the Team recommends.

## 6. Schedule of the Survey

6-1. The consultants will proceed to conduct further survey in Pakistan until September 29, 2011.

6-2. JICA will prepare the summary of draft report in English which describes the basic design of the Project, and will dispatch a mission in order to explain its contents in February, 2012.

6-3. In case the basic design is accepted in principle by the Government of Pakistan, JICA will submit the appraisal document to the Government of Japan for the Project appraisal. Through the appraisal, the Japanese Cabinet will make a final decision for the implementation of the Project.

6-4. If the Project is approved by the Japanese Cabinet, the final report (the Preparatory Survey Report) will be sent to the Government of Pakistan by September, 2012.

6-5. The above schedule is tentative and subject to change.

## 7. Other relevant issues

7-1. Both sides reconfirmed timetable of key actions for PC-1 as follows;

December 20, 2011	Development of PC-I (Draft) by Pakistani side
Beginning of February, 2012	Provision of necessary information by Japanese side
February 10, 2012	Development of PC-I (Final) by Pakistani side
March 20, 2012	Approval by Provincial Development Working Party (PDWP)
April 20, 2012	Approval by Central Development Working Party (CDWP)
June 20, 2012	Approval by Executive Committee of National Economic Council (ECNEC) (If it is required)

7-2. Both sides reconfirmed that the Pakistani side take all necessary steps to secure the safety of the members of the Project. Specifically, the Pakistani side will arrange convoy, whenever the Japanese side requests, to protect the members of the Project during their movement between accommodation and the Project site as well as during construction at site by the Japanese side.

7-3. Both sides reconfirmed that the Pakistani side shall renovate the existing facility if necessary.

Handwritten signature and date: 2/1/12.

Annex-1 Equipment List

Annex-2 Components of Facilities

Annex-3 Tentative Bed Distribution

Annex-4 Building Plan

Annex-5 Human Resource Allocation

Annex-6 Letter from the Government of Sindh

*for you*  
Chief Economist,  
Government of Sindh,  
Planning & Development Department

*K-2/8*



*h*





## Equipment List

Department		New No.	Name of Item	Q'ty	*
Pediatric Medicine	1	PM-1	Hospital Beds with mattress	●	
Pediatric Medicine	2	PM-2	Bed Side Lockers	●	
Pediatric Medicine	3	PM-29	IV Stand	●	
Pediatric Medicine	4	PM-30	Oxygen flow meter, Humidifier and Regulator	●	
Pediatric Medicine	5	PM-4	Electric Suction Machine (S)	4	
Pediatric Medicine	6	PM-6	Laryngoscope (Children Blades)	2	
Pediatric Medicine	7	PM-10	BP Apparatus Mercury with Stands (peads)	6	
Pediatric Medicine	8	PM-12	Ultrasonic Nebulizer (Hospital Use)	4	
Pediatric Medicine	9	PM-13	Infusion Pumps	8	
Pediatric Medicine	10	PM-14	Pulse Oxymeter	6	
Pediatric Medicine	11	PM-15	Saturation Monitor (Patient monitor)	8	
Pediatric Medicine	12	PM-31	Instrument Trolley	2	
Pediatric Medicine	13	PM-32	Desk for consultation	●	
Pediatric Medicine	14	PM-33	Chair for Dr. and Patients	●	
Pediatric Medicine	15	PM-20	Refrigerator Pharmaceutical	2	
Pediatric Medicine	16	PM-35	Examination Couch	●	
Pediatric Medicine	17	PM-36	Dressing Set	2	
Pediatric Medicine	18	PM-37	Wheel Chairs	4	
Pediatric Medicine	19	PM-38	Room Bed	●	
Pediatric Medicine	20	PM-39	Medicine Cabinet with Key (Transparent Glass)	●	
Pediatric Medicine	21	PM-40	Instrument Cabinet (7ft x 3ft x 2ft with two portion)	2	
Pediatric Medicine	22	PM-42	Landry Cart	●	
Pediatric Medicine	23	PM-44	Hospital Sluice Sink	●	
Pediatric Medicine	24	PM-45	Garbage Box	1	
Pediatric Medicine	25	PM-21	X-Ray Viewing Box	4	
Pediatric Medicine (PICU)	26	PICU-1	Defibrillator	1	
Pediatric Medicine (PICU)	27	PICU-2	ICU Beds for Recovery Room	●	
Pediatric Medicine (PICU)	28	PICU-3	Bed Side Lockers	●	
Pediatric Medicine (PICU)	29	PICU-4	IV stand	●	
Pediatric Medicine (PICU)	30	PICU-5	ICU Monitors (Patient Monitors)	4	
Pediatric Medicine (PICU)	31	PICU-6	Pulse Oxymeter	2	
Pediatric Medicine (PICU)	32	PICU-7	Diagnostic Set	1	
Pediatric Medicine (PICU)	33	PICU-9	BP Apparatus Mercury with Stands (peads)	4	
Pediatric Medicine (PICU)	34	PICU-10	Hospital Sluice Sink	●	
Pediatric Medicine (PICU)	35	PICU-13	Medicine Cabinet with Key (Transparent Glass)	●	
Pediatric Medicine (PICU)	36	PICU-12	Room Bed	●	
OPD (Pediatric Surgery)	37	OPDPS-1	Auto Clave (Boiling sterilizer)	1	
OPD (Pediatric Surgery)	38	OPDPS-2	Electric Suction Machine (S)	1	
OPD (Pediatric Surgery)	39	OPDS-10	Chair for Dr. and Patients	2	
OPD (Pediatric Surgery)	40	OPDS-11	Desk for consultation	1	
OPD (Pediatric Surgery)	41	OPDPS-4	Waste Pot	1	
OPD (Pediatric Surgery)	42	OPDPS-5	Examination Lamp	1	
OPD (Pediatric Surgery)	43	OPDPS-6	Refrigerator Pharmaceutical	1	
OPD (Pediatric Surgery)	44	OPDPS-7	Ambu Bag (peads) (1L & 2L)	1	
OPD (Pediatric Surgery)	45	OPDPS-9	X-Ray Viewing Box	1	
Pediatric Surgery	46	PS-1	Hospital Beds with mattress	20	
Pediatric Surgery	47	PS-2	ICU Beds for Recovery Room	●	
Pediatric Surgery	48	PS-3	Bed Side Lockers	●	
Pediatric Surgery	49	PS-4	IV stand	●	
Pediatric Surgery	50	PS-5	Oxygen flow meter, Humidifier and Rregulator	●	
Pediatric Surgery	51	PS-6	ICU Monitors (Patient Monitors)	2	
Pediatric Surgery	52	PS-7	Syringe Pump	2	
Pediatric Surgery	53	PS-8	Infusion Pumps	2	
Pediatric Surgery	54	PS-10	Instrument Trolley	2	
Pediatric Surgery	55	PS-11	Instrument Cabinet (7ft x 3ft x 2ft with two portion)	2	
Pediatric Surgery	56	PS-12	Medicine Cabinet with Key (Transparent Glass)	2	
Pediatric Surgery	57	PS-13	Waste Pot	2	
Pediatric Surgery	58	PS-14	Room Bed	●	
Pediatric Surgery	59	PS-15	Locker	●	
Pediatric Surgery	60	PS-16	Desk for consultation	●	
Pediatric Surgery	61	PS-19	Hospital Sluice Sink	1	
Pediatric Surgery	62	PS-17	Chair for Dr. and Patients	●	
Pediatric Surgery	63	PS-18	Landry Cart	●	
Emergency	64	E-1	Electric Suction Machine (S)	2	
Emergency	65	E-2	BP Apparatus Mercury with Stands (peads)	3	
Emergency	66	E-3	Diagnostic Set	2	
Emergency	67	E-4	Ophthalmoscope	2	

Note : The above components will be finalized subject to further survey and assessment in Japan

*For the*  
*Department of Surgery*  
*File L*

## Equipment List

Department		New No.	Name of Item	Q'ty	*
Emergency	68	E-5	Laryngoscope (Children Blades)	2	
Emergency	69	E-6	Emergency Trolley	2	
Emergency	70	E-9	Dressing Set	2	
Emergency	71	E-11	Emergency Beds	●	
Emergency	72	E-12	Ultrasonic Nebulizer (Hospital Use)	2	
Emergency	73	E-13	Defibrillator	1	
Emergency	74	E-14	First Aid Kit	2	
Emergency	75	E-16	Pulse Oxymeter	3	
Emergency	76	E-17	Infusion Pumps	2	
Emergency	77	E-18	IV stand	●	
Emergency	78	E-19	Oxygen flow meter, Humidifier and Regulator	●	
Emergency	79	E-20	Instrument Cabinet (7ft x 3ft x 2ft with two portion)	1	
Emergency	80	E-21	Medicine Cabinet with Key (Transparent Glass)	●	
Emergency	81	E-24	Glucometer	1	
Emergency	82	E-25	Examination Couch	●	
Emergency	83	E-28	Waiting Chair (for 4 persons)	4	
Emergency	84	E-35	Garbage Box	1	
Emergency	85	E-29	Desk for consultation	●	
Emergency	86	E-30	Chair for Dr. and Patients	●	
Emergency	87	E-31	Hospital Sluice Sink	●	
Emergency	88	E-32	Room Bed	●	
Emergency	89	E-36	Patient Trolley	2	
Emergency	90	E-34	Waste Pot	4	
OPD (Pediatrics)	91	OPDN-1	Baby Cots	1	
OPD (Pediatrics)	92	OPDN-2	Neonatal Height & Weight Scale	1	
OPD (Pediatrics)	93	OPDN-3	Laryngoscope (Children Blades)	1	
OPD (Pediatrics)	94	OPDN-6	BP Set (Neonatal)	1	
OPD (Pediatrics)	95	OPDP-10	Ambu Bag (peads) (1L & 2L)	1	
OPD (Pediatrics)	96	OPDP-2	Desk for consultation	●	
OPD (Pediatrics)	97	OPDP-3	Chair for Dr. and Patients	●	
OPD (Pediatrics)	98	OPDP-4	Waste Pot	1	
OPD (Pediatrics)	99	D-3	Auto Clave (Boiling Sterilizer)	1	
OPD (Pediatrics)	100	OPDP-5	Examination Lamp	1	
OPD (Pediatrics)	101	OPDP-6	Refrigerator for ward	1	
OPD (Pediatrics)	102	OPDP-7	Glucometer	1	
OPD (Pediatrics)	103	OPDP-8	Laryngoscope (Children Blades)	1	
OPD (Pediatrics)	104	OPDP-9	BP Apparatus Mercury with Stands (peads)	1	
OPD (Pediatrics)	105	OPDP-6	Examination Couch	1	
OPD (Pediatrics)	106	OPDP-7	X-ray vewing box	1	
OPD (Special)	107	OPDS-12	Electric Suction Machine (S)	1	
OPD (Special)	108	OPDS-2	Waste Pot	1	
OPD (Special)	109	OPDS-3	Desk for consultation	●	
OPD (Special)	110	OPDS-4	Chair for Dr. and Patients	●	
OPD (Special)	111	OPDS-5	Hospital Sluice Sink	1	
OPD (Special)	112	OPDS-6	Examination Lamp	1	
OPD (Special)	113	OPDS-7	Ambu Bag (peads) (1L & 2L)	1	
OPD (Special)	114	OPDS-9	X-Ray Viewing Box	1	
OPD (Special)	115	OPDS-10	Refrigerator Pharmaceutical	1	
OPD (Special)	116	OPDS-11	Auto Clave (boiling sterilizer)	1	
OPD (Special)	117	OPDS-17	Pulse Oxymeter	1	
OPD (Special)	118	OPDS-13	Glucometer	1	
OPD (Special)	119	OPDS-14	Laryngoscope (Children Blades)	1	
OPD (Special)	120	OPDS-15	BP Apparatus Mercury with Stands (peads)	1	
OPD(ENT, Eye)	121	OPD-4	BP Apparatus Mercury with Stands (peads)	1	*
OPD(ENT, Eye)	122	OPD-5	Diagnostic Set	1	*
OPD(ENT, Eye)	123	OPD-23	Desk for consultation	●	*
OPD(ENT, Eye)	124	OPD-24	Chair for Dr. and Patients	●	*
OPD(ENT, Eye)	125	OPD-16	Ophthalmoscope	1	*
OPD(ENT, Eye)	126	OPD-17	Slit Lamp	1	*
OPD(ENT, Eye)	127	OPD-18	Refraction Set	1	*
OPD(ENT, Eye)	128	OPD-19	Retinoscope	1	*
OPD(ENT, Eye)	129	OPD-20	Indirect Laryngoscope	1	*
OPD(ENT, Eye)	130	OPD-21	ENT Unit	1	*
OPD(ENT, Eye)	131	OPD-22	Minor Instrument for ENT examination	1	*
OPD(ENT, Eye)	132	OPD-27	Waste Pot	2	*
Physiotherapy	133	P-2	Ultrasound Therapy Unit	1	
Physiotherapy	134	P-5	Cycle	1	
Physiotherapy	135	P-6	Weight Training	1	

Note : The above components will be finalized subject to further survey and assessment in Japan

## Equipment List

Department		New No.	Name of Item	Q'ty	*
Physiotherapy	136	P-7	Stoll Bars (parallel bars)	1	
Physiotherapy	137	P-8	Walking Support Bards with walker (walking support bar)	1	
Physiotherapy	138	P-9	Rehabilitation Chairs of different sizes	1	
Physiotherapy	139	P-10	Jumping Jacks (Trampoline)	1	
Physiotherapy	140	P-13	Occupational Therapy Set	1	
Neonatal care unit	141	N-1	Baby Cots	10	
Neonatal care unit	142	N-5	ICU Monitors (Patient Monitors)	4	
Neonatal care unit	143	N-6	Electric Suction Machine (S)	1	
Neonatal care unit	144	N-7	Phototherapy Unit	5	
Neonatal care unit	145	N-8	Oxygen Head Box (Neonatal Size)	5	
Neonatal care unit	146	N-9	BP Set (Neonatal)	3	
Neonatal care unit	147	N-13	Pulse Oxymeter	4	
Neonatal care unit	148	N-16	X-Ray Viewing Box	1	
Neonatal care unit	149	N-20	Syringe Pump	4	
Neonatal care unit	150	N-25	Oxygen flow meter, Humidifier and Regulator	●	
Neonatal care unit	151	N-26	Examination Lamp	2	
ORT	152	O&E-4	Baby Cots (normal chair with arms )	5	
Neonatal care unit	153	N-27	Desk for consultation	●	
Neonatal care unit	154	N-28	Chair for Dr. and Patients	●	
Neonatal care unit	155	N-29	Room Bed	●	
Neonatal care unit	156	N-30	Waste Pot	1	
Neonatal care unit	157	N-31	Locker	●	
Medical Education	158	ME-2	Resuscitator Baby (for cardiopulmonary resuscitation)	1	
Blood Collection Room	159	BCD-1	Desk for consultation	●	
Blood Collection Room	160	BCD-2	Chair for Dr. and Patients	●	
Blood Collection Room	161	BCD-3	Waste Pot	1	
Blood Collection Room	162	BCD-5	BP Apparatus Mercury with Stands (peads)	1	
Laboratory (Central)	163	PA-16	Laboratory Central Table Set	1	
Laboratory (Central)	164	PA-4	Hot Air Oven	1	
Laboratory (Central)	165	PA-12	Refrigerator Pharmaceutical	1	
Laboratory (Central)	166	PA-17	Laboratory Side Table Set (1500W)	2	
Laboratory (Central)	167	PA-18	Laboratory Side Table Set (1800W)	2	
Laboratory (Central)	168	H-27	Distillation Plant (water distiller)	1	
Laboratory (Central)	169	PA-13	Electronic Weighing Balance	1	
Laboratory (Central)	170	PA-20	Chair for Dr. and Patients	●	
Pathology	171	PA-19	Desk for consultation	●	
Pathology	172	PA-20	Chair for Dr. and Patients	●	
Pathology	173	PA-17	Laboratory Side Table Set (1500W)	3	
Chemistry	174	C-4	Laboratory Side Table Set (1500W)	3	
Chemistry	175	C-1	Photometer	1	
Chemistry	176	C-2	Automated Chemistry Analyzer	1	
Chemistry	177	C-3	Color Meter	1	
Chemistry	178	C-5	Desk for consultation	●	
Chemistry	179	C-6	Chair for Dr. and Patients	●	
Hematology	180	H-1	Hematology Analyzer 03 parts differential	1	
Hematology	181	H-4	ESR system (blood sedimentation set)	1	
Hematology	182	H-6	Binocular Microscope	1	
Hematology	183	H-7	Water Bath	1	
Hematology	184	H-8	Laboratory Incubator Small Size	1	
Hematology	185	H-13	Coagulation Analyzer	1	
Hematology	186	H-15	Sample Mixer (roller)	1	
Hematology	187	H-21	DLC Manual Counter	1	
Hematology	188	H-28	Clinical Centrifuge Machine 8000rpm	1	
Hematology	189	H-29	Laboratory Side Table Set (1500W)	3	
Hematology	190	H-30	Desk for consultation	●	
Hematology	191	H-31	Chair for Dr. and Patients	●	
Blood Transfusion Unit	192	BB-15	Desk for consultation	1	
Blood Transfusion Unit	193	PA-17	Laboratory Side Table Set (1500W)	3	
Blood Transfusion Unit	194	BB-16	Chair for Dr. and Patients	3	
Blood Transfusion Unit	195	BB-18	Weighing Scale for adult	1	
Blood Transfusion Unit	196	BB-19	Hemoglobin Meter with Centrifuge	1	
Blood Transfusion Unit	197	BB-20	BP Apparatus (adult cuff)	1	
Blood Transfusion Unit	198	BB-13	Blood Donor Beds	2	
Blood Transfusion Unit	199	BB-21	Bag Shaker	2	
Blood Transfusion Unit	200	BB-2	Centrifuge for Blood Washer (8000rpm)	1	
Blood Transfusion Unit	201	BB-22	Micro Pipettes Set	1	
Blood Transfusion Unit	202	BB-6	Elisa (Plate reader) with printer & automated washer	1	

Note : The above components will be finalized subject to further survey and assessment in Japan

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## Equipment List

Department		New No.	Name of Item	Q'ty	*
OT	269	OT-56	Garbage Box	1	
OT	270	OT-57	Instrument Rack (steel rack for CSSD)	4	
OT	271	OT-58	Sterilization Drum	6	
Pharmacy	272	PH-1	Racks Iron	2	
Pharmacy	273	PH-2	Refrigerator for ward	1	
Pharmacy	274	PH-4	Medicine Cabinet with Key (Transparent Glass)	1	
Commonn	275	AD-1	Meeting Table and Chairs	1	
Commonn	276	AD-2	Presentation Apparatus (Projector)	1	
Commonn	277	AD-3	Book Rack	1	
Commonn	278	AD-11	Meeting Table Set	6	
Commonn	279	AD-12	File Rack for medical record	1	
Commonn	280	AD-9	Waiting Chair (for 4 persons)	●	
Commonn	281	AD-10	Waiting Chair (for 5 persons)	●	

● Subject to decide based on lay out plan

\* Procurement depends upon the securement of Dr.

*Signature*  
**Chief Economist,**  
**Government of Sindh,**  
**Planning & Development Department**

*Signature*  
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## Components of Facilities

Department	Room	No. of Room	Remark
Special Out Patient Clinic	Reception	1	
	Office	1	
	Counseling Room	1	
	Special Outpatient Clinic	5	Treatment Room included
	Eye Clinic	1	
	ENT Clinic	1	
	Drug Store	1	
Surgery Department including Surgical Clinic and Operation Theater	Changing Room	2	
	Surgery Doctor Room	1	
	Endoscopy Room	1	
	Staff Room	1	
	Recovery	1	2 beds
	Autoclave(Gas)	1	
	Preparation	1	
	Operation Theater	2	
	Lobby	1	
	Clean Linen	1	
	Dirty Linen	1	
	Doctor/Nurse Room	1	
	Surgical Ward (High Care Unit)	2	2 beds/Room
	Surgical Ward	4	4 beds/Room
Emergency Department	Reception	1	
	Triage Consultant	1	
	Emergency lobby	1	
	Emergency Room	1	10 Bays
	Emergency Isolation Room	2	
	Doctor Room	1	
	Duty Room	1	
Pediatric Medical Wards including Therapeutic Feeding Center and Play Area	Reception	1	
	Clean Linen	2	
	Dirty Linen	2	
	Treatment	2	
	Doctor Room	2	
	Staff Rest	1	
	Nurse Room	2	
	Medical Ward	8	4 beds/Room
	Medical Ward	9	6 beds/Room
	Infection Ward	1	5 beds/Room
Play Area	1		
Image Diagnostic Department	Xray Room	1	
	Operator Room	1	Mobile X-ray Unit
	Doctor Room	2	
	Ultrasound Room	2	
	Waiting Lobby (X-ray)	1	
	Waiting Lobby (Ultrasound, EEG, EMG/ECG)	1	
	EEG room	1	
EMG/ECG room	1		
Laboratory Department	Blood Bank	2	
	Central Laboratory / Pathology	1	
	Chemistry	1	
	Hematology	1	
	Sample Collection Room	1	
PICU	Pediatric Intensive Care Unit	1	8 beds
	High Care Unit	2	4 beds/Room
	Duty Room	1	
NCU	Neonatal Care Unit	1	8 incubators
	Doctor/Nurse Room	1	
	Consulting Room	1	
	Baby Treatment Room	1	
	Change Room	2	
	Duty Room	1	
	Mother Change room	1	10 baby cots
	Mother Treatment Room	1	
Camp Office for Superintendent	Medical Superintendent Room	1	
	Staff Room	1	
Secondary Pharmacy	Pharmacy & Drug Store	1	
Incidental Facilities for New Building	Canteen	1	
	Locker	4	
	Staff Room	2	
Connecting Corridors to the Existing Building	Connecting Corridor	1	

Note 1 : The above components will be finalized subject to further survey and assessment in Japan.

Note 2 : Installation of power backup generator, air conditioning system and oxygen supply system will be considered and subject to further discussion by Pakistani side and Japanese side.

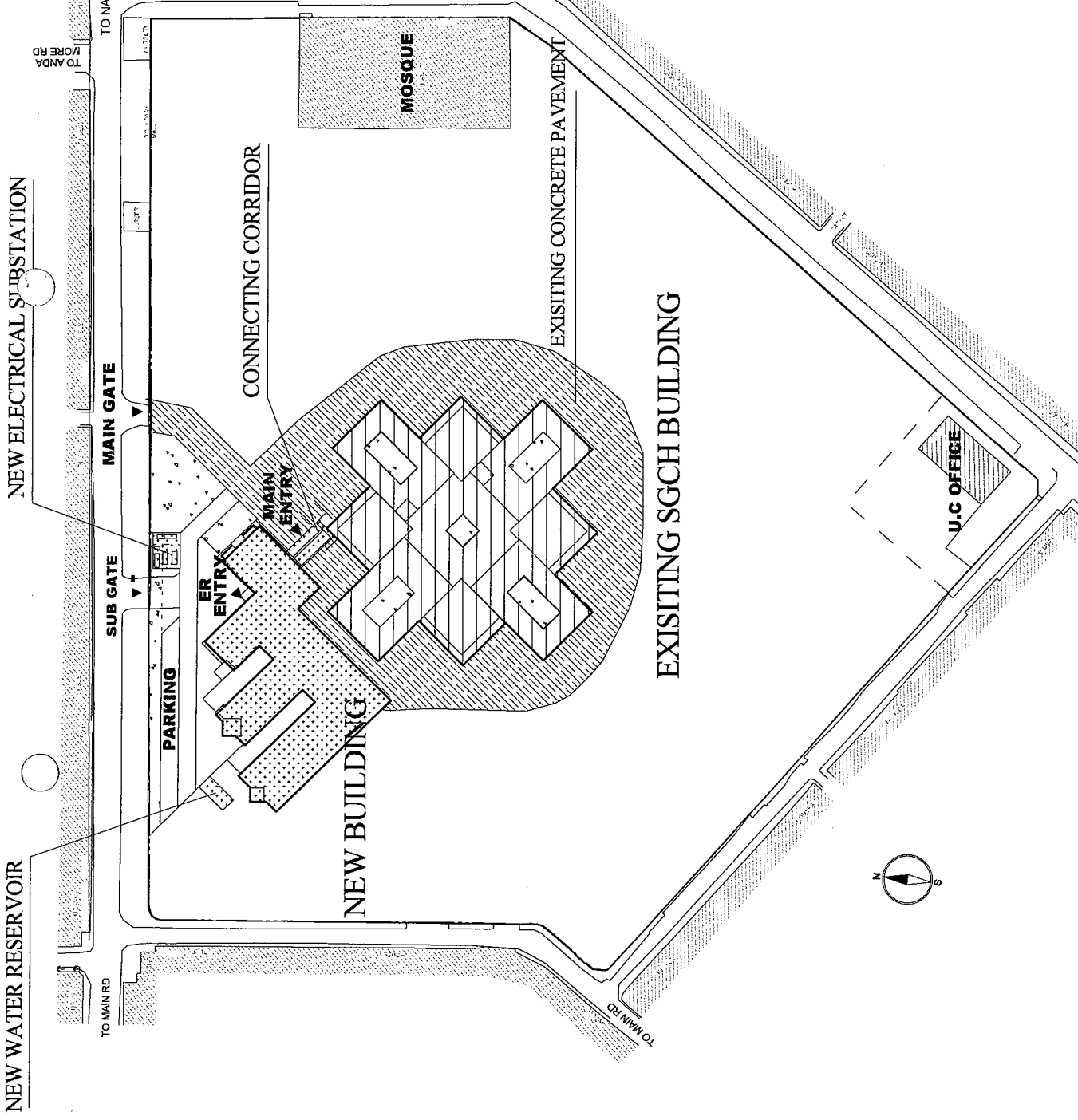
for Govt. of Punjab  
Government of Punjab  
Health & Family Welfare Department  
21/12 L

## Tentative Bed Distribution for New Building

GENERAL MEDICAL WARD	46 beds
DIARRHEA WARD	20 beds
SPECIAL PEDIATRIC OPD WARD	20 beds
INFECTION WARD	5 beds
SURGICAL WARD	16 beds
(HIGH CARE UNIT)	4 beds
PICU (PEDIATRIC INTENSIVE CARE UNIT)	8 beds
(PEDIATRIC HIGH CARE UNIT)	8 beds
NCU (NEONATAL CARE UNIT)	8 incubators
TFC (THERAPEUTIC FEEDING CENTRE)	0 beds
TOTAL	127 beds
	8 incubators
ER TREATMENT BED	10 beds
Mother Treatment Room at NCU	10 cots
OT recovery beds	2 beds

Note : The above components will be finalized subject to further survey and assessment in Japan

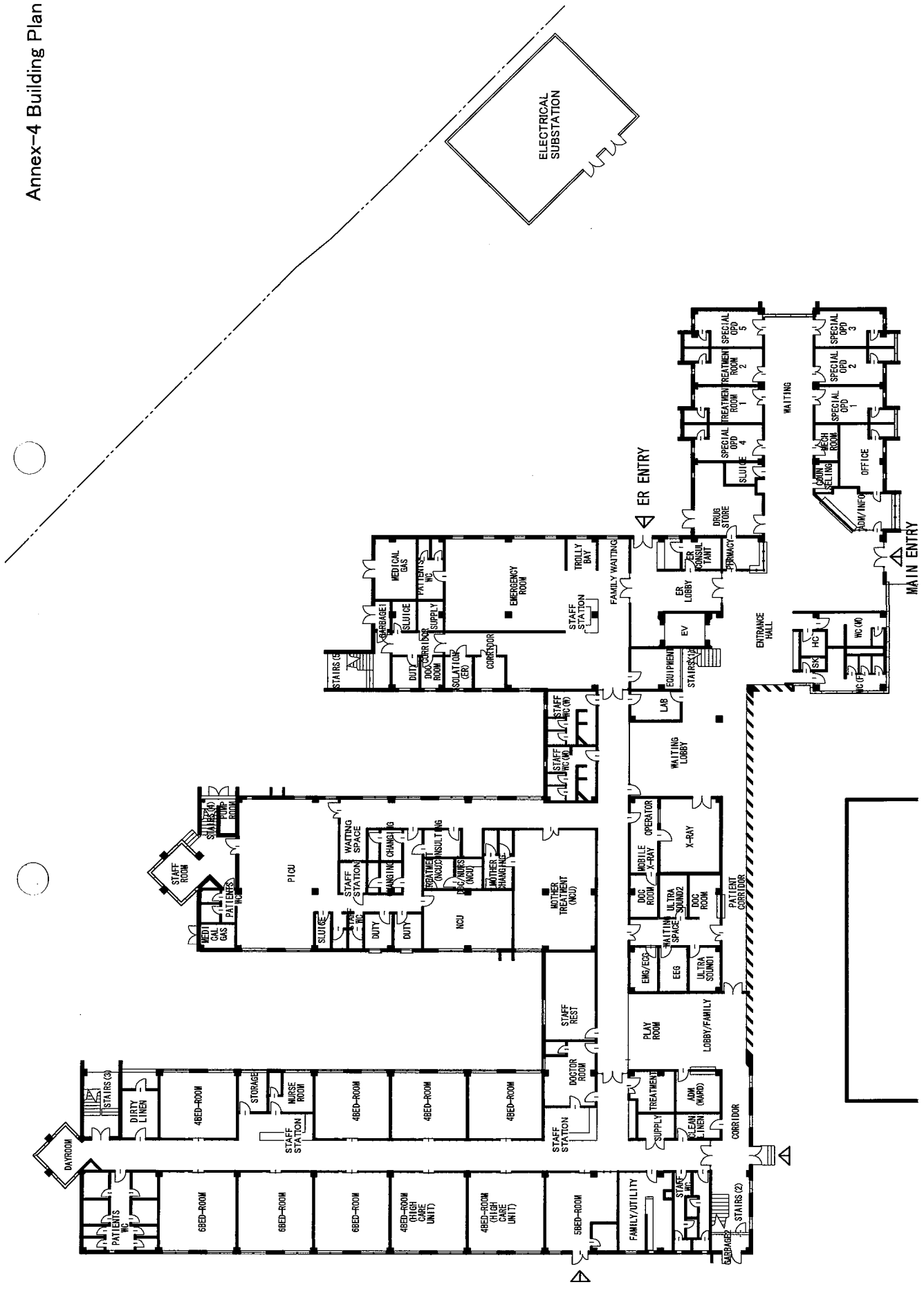
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Note : The above building plan will be finalized subject to further survey and assessment in Japan

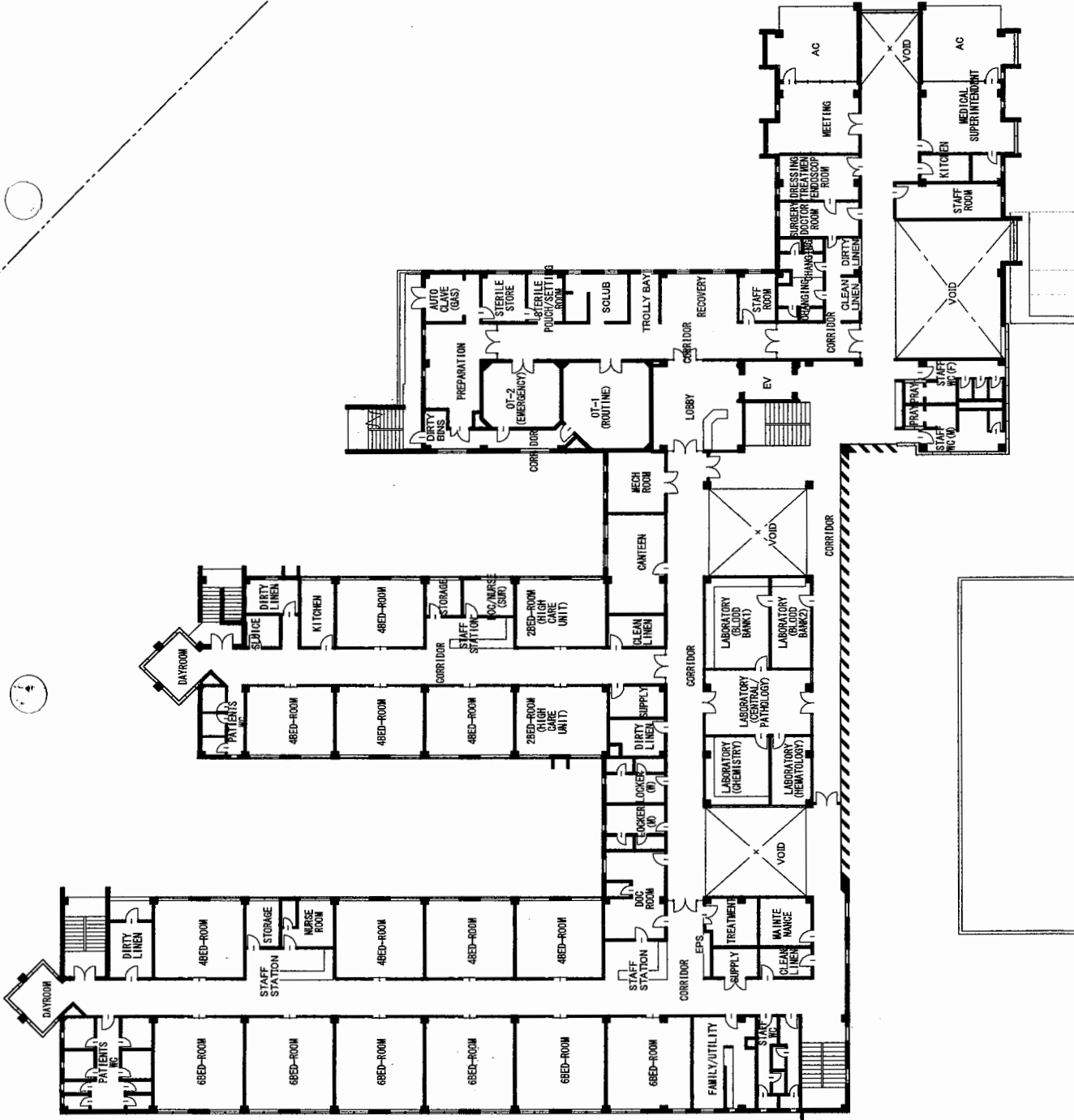




THE PROJECT FOR THE IMPROVEMENT OF CHILD HEALTH INSTITUTE IN KARACHI IN THE ISLAMIC REPUBLIC OF PAKISTAN

Note : The above building plan will be finalized subject to further survey and assessment in Japan

*Su*  
*for*  
**Chief Economist,**  
**Government of Sind,**  
**Planning & Development Department**  
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*for go*  
 Chief Engineer,  
 Government of Sindh,  
 Planning & Development Department.  
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THE PROJECT FOR THE IMPROVEMENT OF CHILD HEALTH INSTITUTE IN KARACHI IN THE ISLAMIC REPUBLIC OF PAKISTAN

Note : The above building plan will be finalized subject to further survey and assessment in Japan

**Human Resource Allocation**

Title	Minimum Total Staff for PC-1 Proposal
<b>Doctor</b>	<b>64</b>
The above 64 doctors shall include: 20 Ward Doctors	
One ENT Doctor	
One Ophthalmologist	
One Anesthetist	
<b>Paramedical (Nurse)</b>	<b>24</b>
<b>Paramedical (Others)</b>	<b>53</b>
One Biomedical Engineer shall be included	
<b>Management Staff</b>	<b>76</b>
<b>Total</b>	<b>217</b>

Note : The above components will be finalized subject to further survey and assessment in Japan

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PS/SPL-SEC(PH)/JICA/2011.  
GOVERNMENT OF SINDH  
HEALTH DEPARTMENT  
Karachi, dated the 17<sup>th</sup> September, 2011.

To,

Mr. Hideo Eguchi,  
Deputy Director General  
Planning & Coordination,  
Human Development Department,  
J.I.C.A.

**SUBJECT : STRENGTHEN THE SERVICES OF THE CHILD HEALTH  
INSTITUTE IN KARACHI.**

With reference to discussion with JICA team, Health Department committed to create the posts through the PC-I followed by SN.E. 2012-2013 for the posts mentioned in Annexure-VI and specially and specifically, and to assign these professional by the inauguration of the Institute.

1. Anesthetist.
2. Ophthalmologist.
3. ENT Specialist.
4. Bio-Medical Technician.

  
( DR. SIKANDAR ALI PANHWER )  
SPECIAL SECRETARY(PH)



(2) テクニカルメモランダム



TECHNICAL MEMORANDUM  
 PREPARATORY SURVEY (FIELD SURVEY II)  
 ON THE PROJECT FOR IMPROVEMENT OF CHILD HEALTH INSTITUTE IN KARACHI  
 IN THE ISLAMIC REPUBLIC OF PAKISTAN

<p>Subsequent to Minutes of Discussions signed on September 19, 2011 between Japan International Cooperation Agency and the Government of Sindh, the Preparatory Survey (Field Survey II) Team (hereinafter referred to as "the Team") conducted a field survey at the study area and held discussions with the officials concerned of the Government of Sindh. Through the field survey and the discussions, the Pakistani side and the Team confirmed the following items described in the attached sheets and ensured to consider them in Japan.</p>	
<p><b>Attachment-1</b>  <b>Human Resource Allocation</b></p> <p>With regard to human resource allocation plan for the Project, the Team confirmed the followings:</p> <ol style="list-style-type: none"> <li>1. With reference to Attachment 3-4 of the Minutes of Discussions signed on September 19, 2011 between Japan International Cooperation Agency and the Government of Sindh, the attached letter regarding details regarding professional of anesthesia, ophthalmology, and ENT in Sindh are submitted from the Government of Sindh. The recruitment plan of the above professional shall be submitted to JICA by December 31, 2011.</li> <li>2. As of September 26, 2011, the newly recruited five doctors are already started working at the Sindh Government Children Hospital (hereinafter referred to as "SGCH").</li> </ol> <p>As of September 28, 2011, the five additional staff for NICU is under the final recruitment process of interview.</p>	<p>(Comments from Health Department)</p> <p>The recruitment plan has been discussed between the special secretary Public Health and Mission People on 26<sup>th</sup> September 2011</p> <p>The copy of information regarding the professionals of Anesthesia, Ophthalmology and ENT in Sindh, the position paper is attached.</p> <p>As recruitment plan, PC-1 Draft for the project is to be provided by 31<sup>st</sup> December 2011.</p> <p>The process is going on at Sindh Government Children Hospital.</p>




**Attachment-2 Building Plan**

With regard to building plan for the Project, the Team confirmed the followings:

1. Ward Layout

With reference to "the annex-4 Building Plan" of the Minutes of Discussions signed on September 19, 2011 between Japan International Cooperation Agency and the Government of Sindh, the following minor amendments are to be considered;

- Two surgical ICU rooms are to be combined to one big room.

- Two 4-bed room in medical ward are to be replaced with two medical high care unit rooms with 3 beds, and two 4-bed medical high care unit rooms are to be replaced with 6-bed room.

2. Special Out Patient Department

Room distribution of special outpatient department is confirmed as follows;

Room No.	Clinical services in new Special OPD
Room 1	Surgical Clinic
Room 2	Surgical Treatment Room
Room 3	ENT (ear, nose and throat) Clinic
Room 4	Ophthalmology Clinic
Room 5	Internal Medicine Clinic by Senior Consultants
Room 6	To be shared by the current Neurology,
Room 7	Nephrology, Endocrinology, Asthma Clinic and other new sub-specialties.

Discussed in wrap-up meeting

Discussed in Wrap-up Meeting

**Attachment-3 Equipment List**

Discussed in Wrap-up Meeting as attached.

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#### Attachment-4 Medical Waste Management

With reference to Attachment 3-5 of the Minutes of Discussions signed on September 19, 2011 between Japan International Cooperation Agency and the Government of Sindh, the waste management system under the Karachi City Government was surveyed and confirmed by the Team as follows:

1. Incineration service by the Karachi City Government  
The Karachi City Government owns two incinerators which were installed on 1998 and can incinerate one ton of wastes per hour at 1,400 degrees Celsius at the maximum. They incinerate from six to seven tons of wastes every day, and still have enough capacity left to spare. Medical wastes are segregated, packed in plastic bags and collected by vehicles.
2. Operating private company and fare  
The Karachi City Government commissions a private company to collect wastes and operate the incinerators. A hospital with 101 to 200 beds can use the service at the fare of 31,460 Rs/month and 377,520Rs/year, which is equivalent to 0.8% of expenditure of SGCH, 2010-2011, and 2.4% of expenditure excluding labor cost.
3. Other hospitals which use the service  
175 hospitals out of about 1,000 in Karachi City use the service, including NICH.  
The Pakistani side requested SGCH essentially requires the medical waste management system which JICA may consider.

Team Visited the Site

District Officer Env:

informed the team the unit has completed the economic life.

There are 1000 Hospital functioning in the city and the city District Government is incineration facilities to 175 Hospital Approximately, on reasonable charges.

Discussed in wrap-up meeting.

Sindh Government Children Hospital needed hospital waste management system which should be environmental friendly.

The children hospital essential require the incineration facility for which the JICA may consider it.

Attachment:

1. Human Resource Allocation
2. Equipment List

津本正芳

Tadayoshi TSUMOTO  
Deputy Chief Consultant  
Preparatory Survey Team  
For Japan International Cooperation Agency  
Japan

Karachi, September 27th. 2011

Dr. Capt. Sikandar Ali Panhwar  
Special Secretary (Public Health)  
Health Department  
Government of Sindh  
The Islamic Republic of Pakistan