### 7.7 Maintenance and Management Plan

#### 7.7.1 Facilities

The maintenance work of public facilities such as government hospitals, CHCs, is carried out by the PWD (Public Works Department), except for cleaning. The PWD is composed of architectural, structural, electrical and mechanical departments. PWD staff members are stationed at Bhuj office, and they are in charge of maintaining the facilities and repairing furniture. Since, the CHC Anjar and CHC Mundra are also government facilities, their maintenance after completion will be done by the PWD.

### 7.7.2 Medical Equipment

The maintenance work of medical equipment of CHC facilities is divided into daily maintenance and repairing of broken equipment. Since, no maintenance staff are stationed at either CHC Anjar or CHC Mundra, maintenance staff such as engineers or supervisors under the government will be dispatched from the RAJKOT office depending upon requests from the CHC. The manufacturer's or agent staff will be required to do some repairs depending upon the conditions of damage. Since, a maintenance contract is required for equipment such as the X -ray machine, the contract fee should be prepared.

#### 7.7.3 Maintenance and Management Expenses

The operating and management costs consist of personal expenditure, administration cost, maintenance cost for facilities and equipment, etc. For the tentative calculation of operating and management cost, as the QRS project is a re-construction of the existing facilities and the number of staff is almost the same, only the maintenance cost is calculated after completion the of facilities. But, the cost for staff quarters is not included. Table 7-5 shows a tentative calculation of the maintenance and management expenses required annually after completion of the QRS project.

**Table 7-5 Maintenance and Management Expenses** 

| No. | Items             | Annual Expenses |            |  |
|-----|-------------------|-----------------|------------|--|
| NO. | Items             | CHC Anjar       | CHC Mundra |  |
| (1) | Electricity       | 1,051,200       | 315,360    |  |
| (2) | Telephone         | 277,400         | 77,380     |  |
| (3) | Water             | 0               | 0          |  |
| (4) | Medical Gas       | 100,000         | 25,000     |  |
| (5) | Fuel of Generator | 248,400         | 37,260     |  |
| (6) | Facilities        | 72,000          | 18,000     |  |
| (7) | Medical Equipment | 400,000         | 125,000    |  |
|     | Total             | 2,149,000       | 598,000    |  |

(unit:Rs)

### (1) Electricity

The average power consumption is estimated at about 20 % of the total capacity. According to the regulation of GEB, the power rate system consists of basic and meter rates, but a unit rate which includes basic and meter rates is to be used for estimates for this QRS project.

### **CHC Anjar**

- $100 \text{ kw} \times 0.2 \times 24 \text{ h/day} \times 365 \text{ day/year} = 175,200 \text{ kwh/year}$
- $6 \text{ Rs} \times 175,200 \text{ kwh/year} = \frac{1,051,200 \text{ Rs/year}}{1,051,200 \text{ Rs/year}}$

#### **CHC Mundra**

- $30 \text{ kw} \times 0.2 \times 24 \text{ h/day} \times 365 \text{ day/year} = 52,560 \text{ kwh/year}$
- $6 \text{ Rs} \times 52,560 \text{ kwh/year} = 315,360 \text{ Rs/year}$

### (2) Telephone

The frequency of the use of the telephone line is assumed as follows,

| Local                     | Anjar  | 200 calls/day |
|---------------------------|--------|---------------|
|                           | Mundra | 40 calls/day  |
| Long distance (e.g Delhi) | Anjar  | 50 calls/day  |
|                           | Mundra | 15 calls/day  |

The unit rate of telephone call is as follows,

Local 0.8 Rs/1 call (3 min.) Long distance (e.g., Delhi) 12 Rs/1 call (1 min.)

### **CHC Anjar**

- Local: 200 calls/day×365 day/year = 73,000 calls/year
- $0.8 \text{ Rs/call} \times 73,000 \text{ calls/year} = 58,400 \text{ Rs/year}$
- Long distance : 50 calls/day $\times$ 365 day/year = 18,250 calls/year
- 12 Rs/call×18,250 calls/year = 219,000 Rs/year
- Total: 58,400+219,000=<u>277,400 Rs/year</u>

#### **CHC Mundra**

- Local:  $40 \text{ calls/day} \times 365 \text{ day/year} = 14,600 \text{ calls/year}$
- $0.8 \text{ Rs/call} \times 14,600 \text{ calls/year} = 11,680 \text{ Rs/year}$
- Long distance : 15 call/day×365 day/year = 5,475 call/year
- $12 \text{ Rs/call} \times 5,475 \text{ call/year} = 65,700 \text{ Rs/year}$

• Total: 1,680+65,700=77,380 Rs/year

### (3) Water expenses

Since the water expenses for the government facilities are free of charge, these expenses are not calculated.

### (4) Medical gas

Medical gas expenses for the CHC Anjar and CHC Mundra will be estimated based on the existing conditions.

### CHC Anjar

• 100,000 Rs/year

### **CHC Mundra**

- 25,000 <u>Rs/year</u>
- (5) Fuel Generator

The fuel of the emergency generator is diesel oil. The frequency of electrical power shut down is estimated as one time/day of three hours.

## **CHC Anjar**

- $10 \text{ l/h} \times 90 \text{ h/month} \times 12 \text{ month/year} = 10,800 \text{ l/year}$
- 23 Rs/l×10,800 l/year =  $\underline{248,400 \text{ Rs/year}}$

### **CHC Mundra**

- $1.5 \text{ l/h} \times 90 \text{ h/month} \times 12 \text{ month/year} = 1,620 \text{ l/year}$
- 23 Rs/l×1,620 l/year =  $\frac{37,260 \text{ Rs/year}}{1}$
- (6) Building Maintenance

Building maintenance expenses for repairs to interior and exterior finishing, mechanical and electrical installations and for the purchase of spare parts are estimated at 60 Rs/m²/year.

### **CHC Anjar**

•  $60 \text{ Rs/m}^2/\text{year} \times 1,200 \text{ m}^2 = \frac{72,000 \text{ Rs/year}}{1.000 \text{ Rs/year}}$ 

## **CHC Mundra**

- $60 \text{ Rs/m}^2/\text{year} \times 300 \text{ m}^2 = 18,000 \text{ Rs/year}$
- (7) Medical Equipment

The annual maintenance expenses are estimated at about 5 % of total equipment cost. The expenses of consumables are estimated based on the existing condition.

## CHC Anjar

- Maintenance expenses:2,000,000 Rs×0.05 /year = 100,000 Rs/year
- Consumables expenses : 300,000 Rs/year
- Total: 100,000+300,000 = 400,000 Rs/year

The expenses for CHC Mundra are estimated based on the proportional ratio of floor area.

## **CHC Mundra**

- Maintenance expenses :  $100,000 \text{ Rs/year} \times 300 \text{ m}^2/1,200 \text{ m}^2 = 25,000 \text{ Rs/year}$
- Consumables expenses : 100,000 Rs/year
- Total: 25,000+100,000 = 125,000 Rs/year

### 7.8 Implementation Method

#### 7.8.1 Work flow from Design to Completion

As described in Chapter 6, sub-clause 6.4, the Project Team worked in an effective manner in association with local consultants and engineers from design stage to completion of the construction work in order to construct the requested educational and healthcare facilities in the devastated areas as early as possible.

The Project Team executed each of the tasks itemized below for smooth implementation of the healthcare facilities' construction in the same way as the Project Team worked for the educational facilities.

| [Site survey]      | *     | Topographical surveying on each site of both Anjar and Mundra and production of their site survey drawings Geological surveys and soil investigations at both Anjar and Mundra.  |
|--------------------|-------|--|
| [Plan and design]  | * * * | Selection of local consultancy firm Planning and designing of required facilities with the determined design conditions at the allotted sites. Planning of medical equipment procurement Planning of construction method and materials |
| [Bid and contract] | *     | Preparation of bidding documents, evaluation and contracting   |
| [Supervision]      | *     | Supervision of construction works  |

#### 7.8.2 Topographical and Geological Survey

The Project Team conducted topographical and geological surveys, including soil investigations, with the assistance of K.C.T Consultancy Services who also executed the topographical surveys on the sites of the educational facilities, at both Anjar and Mundra sites. Then, the Project Team produced site surveying drawings and technical investigation reports prior to planning / designing the required facilities.

# 7.8.3 Selection of Local Consultancy Firm

Dalal Consultants and Engineers Limited (DCEL) was selected as the local consultants, whose local knowledge and experience is vital for the QRS project as stated before, through an examination of their experience, competence and adaptation ability to swift work. The Project Team worked in association with DCEL for the healthcare facilities as well as for the educational facilities throughout the QRS project implementation from design stage to completion.

The scope of services to be rendered included architectural, civil/structural, mechanical and electrical engineering works, assistance in the selection process of a contractor and a supplier, supervisory works during the construction and procurement stage of the QRS project, for both the building construction and medical equipment procurement.

## 7.8.4 Planning and Designing of Required Facilities

The Project Team proceeded the planning and designing of the healthcare facilities in association with the above-mentioned consultants, at each of the allotted sites, at Anjar and Mundra, within the time constrained schedule by concurrently visiting sites and by identifying the design conditions. During the Plan/Design stage the Project Team consulted the Commissioner of Health, Medical Services and Medical Education; the Government of Gujarat, Gandhinagar; and the District Health Officer, Kutch, and submitted the structural design calculations (based on designing to seismic zone-V), for the Commissioner's approval.

The Project Team also notified the Commissioner the probable time of commencement and completion of the construction work. The QRS project was acknowledged and approved. Regarding the statutory applications, building permissions were not required prior to commencement of the construction for the QRS project, except the above-mentioned calculations for the Commissioner's approval.

### 7.8.5 Planning of Medical Equipment Procurement

The medical equipment and furniture for the healthcare facilities were selected and finalized in consultation with the Commissioner of Health, Medical Services and Medical Education, Gandhinagar. The disposition of these equipment were planned along with the design of the facilities and were drawn in the plans in order to examine whether or not the equipment would fit within the space effectively and also to determine the location of electrical outlets in each room. There was no difficulty to obtain the equipment, which comprised a mixture of Indian-made and imported items, through local suppliers in terms of type, quantity and quality. The consumables and dispensable materials were not included within the equipment list.

### 7.8.6 Planning of Construction Method and Materials

The healthcare facilities at both Anjar and Mundra are to be built using conventional construction methods with reinforced concrete moment frame structures, which are designed to seismic zone-V of

the project area. External and internal walls were made of non-structural brickwork. These structures and other materials to be used for the facilities are all Indian-made. It was possible to procure these materials since their supply situation was normal, and was of an adequate standard to meet the required specifications.

### 7.8.7 Bidding and Contracting

### (1) Facilities

The Project Team prepared a set of documents necessary to conduct competitive bidding for the selection of the contractor who would take charge of the construction including the necessary dismantling works for the QRS project. These documents were handed to three selected contractors for their bidding on 13<sup>th</sup> August 2001. The three were contractors who had sufficient experience of the same kind and were able to carry out the work in the project area. The bidding form was made for a lump sum contract including the facilities at both Anjar and Mundra, including demolition works. As a result of the bidding and also as a result of the technical examination, the Project Team selected the contractor for the QRS project for healthcare facilities. The bids were opened on 29<sup>th</sup> August 2001 and the construction contract for the healthcare facilities was signed on 1<sup>st</sup> September 2001.

### (2) Medical Equipment

The Project Team prepared a set of documents necessary to conduct competitive bidding for the selection of a supplier who would take charge of supply and installation of medical equipment and medical furniture for the QRS project. These documents were handed to three selected suppliers for their bidding on 7<sup>th</sup> September 2001. The three were suppliers who were registered to the GOG and were able to supply to the CHC at Anjar. The bidding form was made for a lump sum contract. As a result of the bidding and technical examination, the Project Team selected the Supplier for the QRS project. The bids were opened on 17<sup>th</sup> September 2001 and the contract for medical equipment supply was signed on 3<sup>rd</sup> October 2001.

### 7.8.8 Supervision of Works

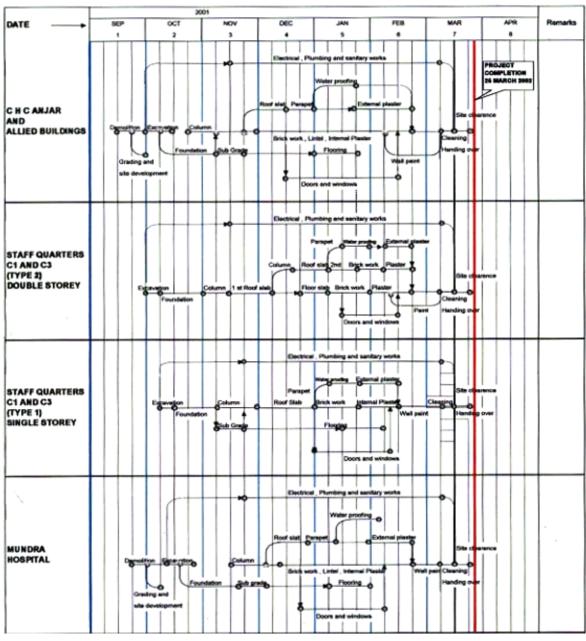
The architect/engineers of the Project Team in association with the local consultancy firm, DCEL, supervised the work at both Anjar and Mundra sites at regular intervals and also at specific necessary times during the construction period. The monthly progress reports were submitted to the GOG counterparts and JICA. The objectives of the construction supervision work were, in the same way

for the educational facilities, to ensure that the construction works were carried out in accordance with the drawings and specifications and to maintain a high quality of the works by giving guidance and coordination to the contractor. The supervision works also included the following tasks,

- examination and approval of the working drawings and any manufacturing drawings.
- confirmation and approval of the building materials and the basic equipment.
- reporting on the progress of the construction work.
- final inspection of the completed facilities in order to issue the certificate of completion.

The Project Team and the local consulting firm also supervised the procurement and the installation of the medical equipment.

# 7.8.9 Proposed Construction Schedule



# 7.9 Construction Report

COMMENCEMENT

GOG. DEMOLITION ORDER

GOG. BLDG. APPROVAL

EXPECTED COMPLETION

# 7.9.1 Summary of the Project

| (1) Summary of the Project 1 |   |  |                 |  |
|------------------------------|---|--|-----------------|--|
| PROJECT NAME                 | : | THE WORK OF CONSTRUCTION OF COMMUNITY FOR THE GUJARAT-EARTHQUAKE DISASTER IN DEVASTATED AREAS IN INDIA           | KUTCH<br>UPPORT |  |
| CONSTRUCTION SITE            | : | ANJAR IN KUTCH DISTRICT (SITE AREA: 40,665m <sup>2</sup> )<br>MUNDRA IN JUTCH (SITE AREA: 22,608m <sup>2</sup> ) |                 |  |
| EMPLOYER                     | : | THE CONSORTIUM OF YAMASHITA SEKKEI INC. & SEKKEI, INC.   | NIHON           |  |
| ENGINEER                     | : | THE CONSORTIUM OF YAMASHITA SEKKEI INC. & SEKKEI, INC. IN ASSOCIATION WITH CONSULTANTS & ENGINERS LTD.           | NIHON<br>DALAL  |  |
| CONTRACTOR                   | : | MITSUI KENSETSU INDIA LTD.   |                 |  |
| CONTRACT DATE                | : | SEPTEMBER 1, 2001  |                 |  |

# (2) Outline Of Building 2

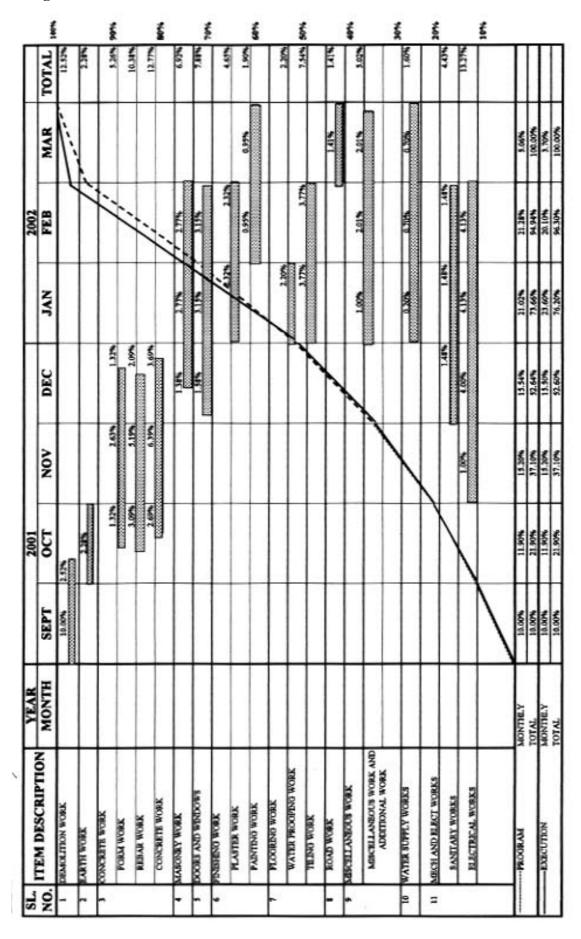
SEPTEMBER 8, 2001

SEPTEMBER 11, 2001

SEPTEMBER 30, 2001 MARCH 25, 2002

|                                |   | 2   |
|--------------------------------|---|---|
| BUILDING COVERAGE AREA         | : | $2,533 \text{m}^2$  |
| (ANJAR)                        |   |   |
| BUILDING COVERAGE AREA         | : | 306m <sup>2</sup>   |
| (MUNDRA)                       |   |   |
| TOTAL FLOOR AREA (ANJAR)       | : | 2,735m <sup>2</sup>   |
| Hospital Bldg.                 |   | 1,313m <sup>2</sup> RCC, 1 Story, Split Foundation                |
| Generator/Garage Bldg.         |   | 48m <sup>2</sup> RCC, 1 Story, Split Foundation                   |
| Postmortem Bldg.               |   | 30m <sup>2</sup> RCC, 1 Story, Split Foundation                   |
| Pump House                     | : | 9m <sup>2</sup> RCC, 1 Story, Split Foundation                    |
| Staff Quarters C-I & Bldg. A   |   | 372m <sup>2</sup> RCC, 2 Story, Split Foundation                  |
| Staff Quarters C-I & Bldg. B   |   | 193m <sup>2</sup> RCC, 1 Story, Split Foundation                  |
| Staff Quarters C-III & Bldg. A |   | 462m <sup>2</sup> RCC, 2 Story, Split Foundation                  |
| Staff Quarters C-III & Bldg. B |   | 308m <sup>2</sup> RCC, 1 Story, Split Foundation                  |
| TOTAL FLOOR AREA (MUNDRA)      |   | $300\text{m}^2$   |
| Maternity Bldg.                |   | 296m <sup>2</sup> RCC, 1 Story, Split Foundation                  |
| Maternity Generator House      |   | 4m <sup>2</sup> RCC, 1 Story, Split Foundation                    |
| ELECTRICAL                     |   | GEB Power + DG Power 415V/220V, DG Set (40KVA for Anjar,          |
|                                |   | 4KVA for Mundra) Telephone EPABX (Anjar), Extension from          |
|                                |   | Existing EPABX (Mundra)   |
| PLUMBING                       |   | Water City + Well (Anjar), city (Mundra), Drainage, Septic Tank + |
|                                |   | Soak Well (Anjar, Mundra)   |
| MECHANICAL                     |   | Air Conditioning, RM, for O.T., ICU, Superintendent (Anjar) RM    |
|                                |   | for O.T. (Mundra)   |

### 7.9.2 Progress of Works



# PHOTOGRAPHS OF INJH P/J

# BEFORE DEMOLITION



FRONT VIEW



EAST SIDE



SOUTH SIDE



SOUTH SIDE



MAIN HOSPITAL BUILDING



SAFETY MEASURES

301



EASTERN SIDE



WESTERN SIDE



AFTER DEMOLITION



DISPOSAL WORK

303

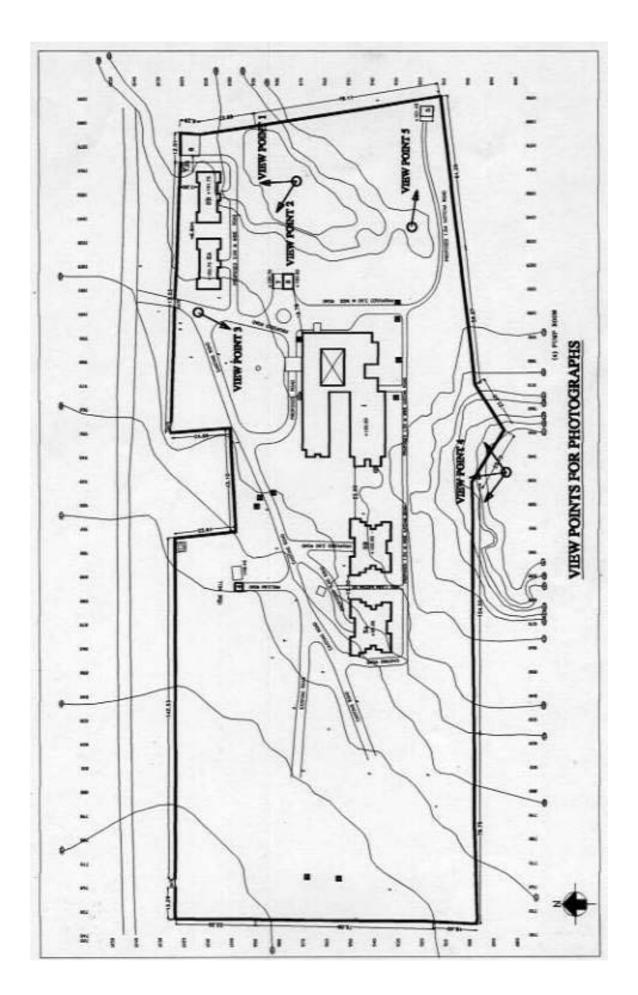
# MUNDRA SITE

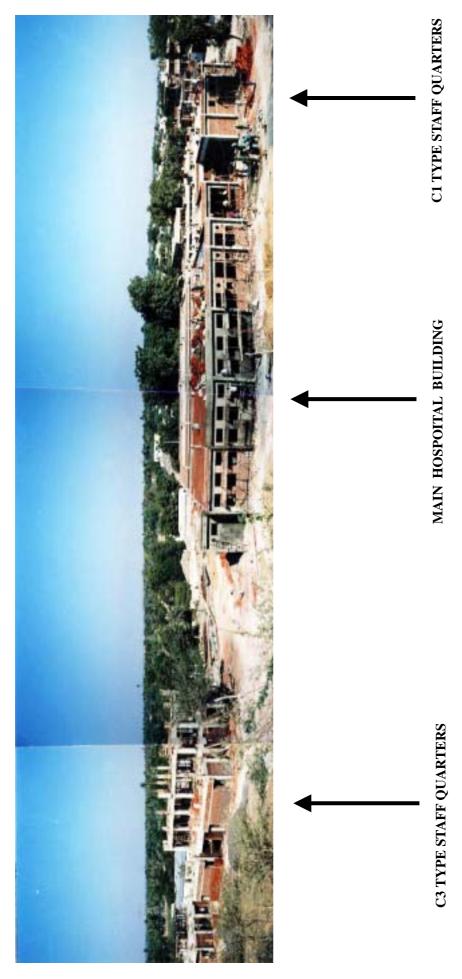


FRONTO VIEW



BACK SIDE





# ANJAR SITE



**VIEW POINT 1 (31/12/01)** 



**VIEW POINT 2 (31/12/01)** 



**VIEW POINTS 3 (31/12/01)** 



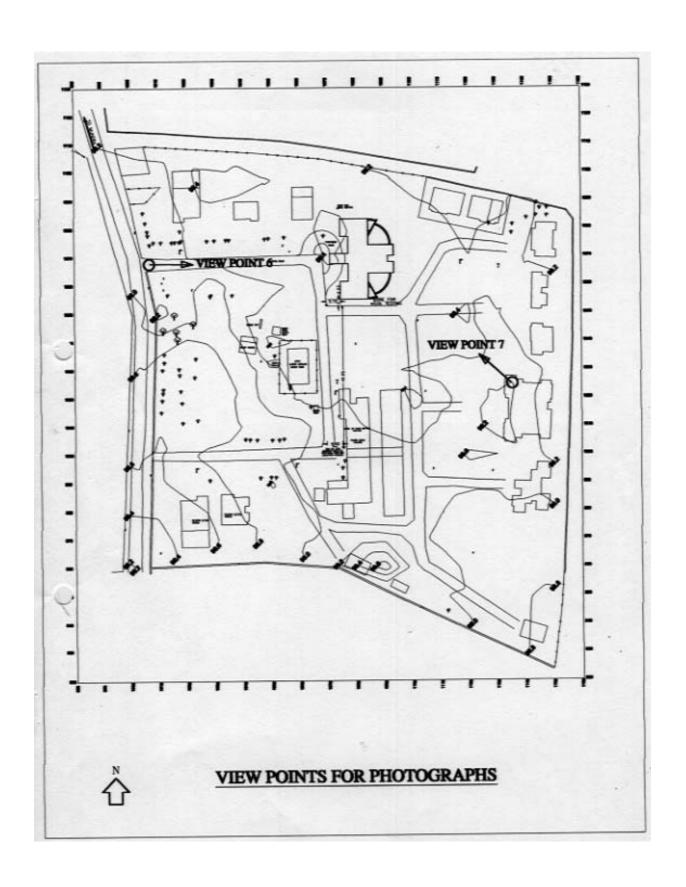
**VIEW POINT 5 (31/12/01)** 



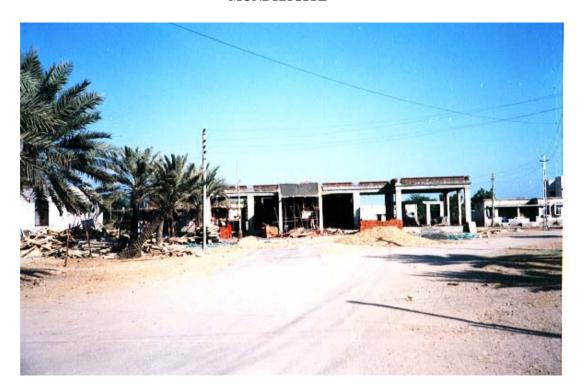
ROOF SLAB CASTING IN BLOCK 3 (07/12/01)



ROOF SLAB PREPARATION FOR AMBULANCE ROOM / D G ROOM (31/12/01)



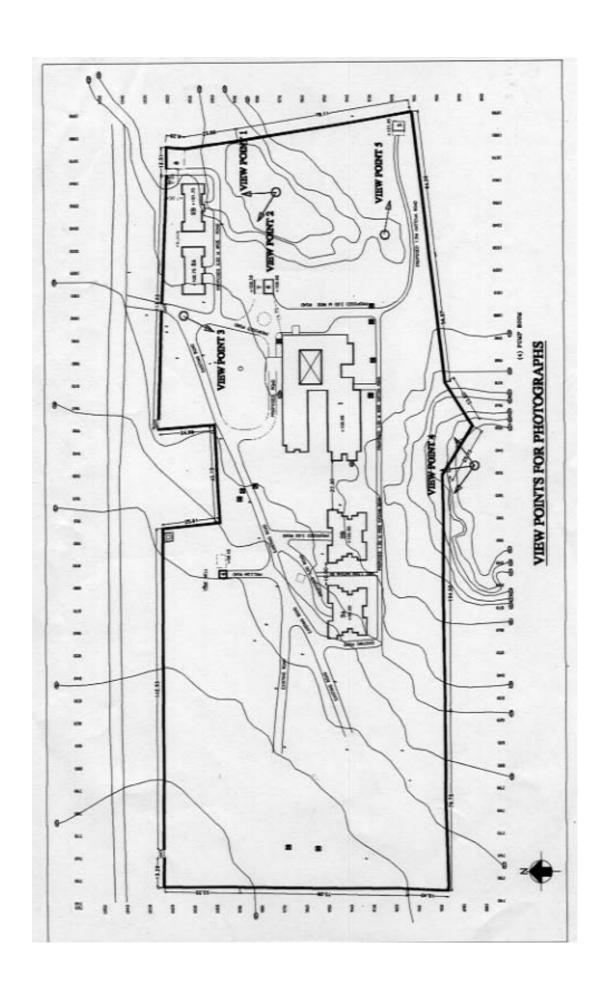
# MUNDRA SITE

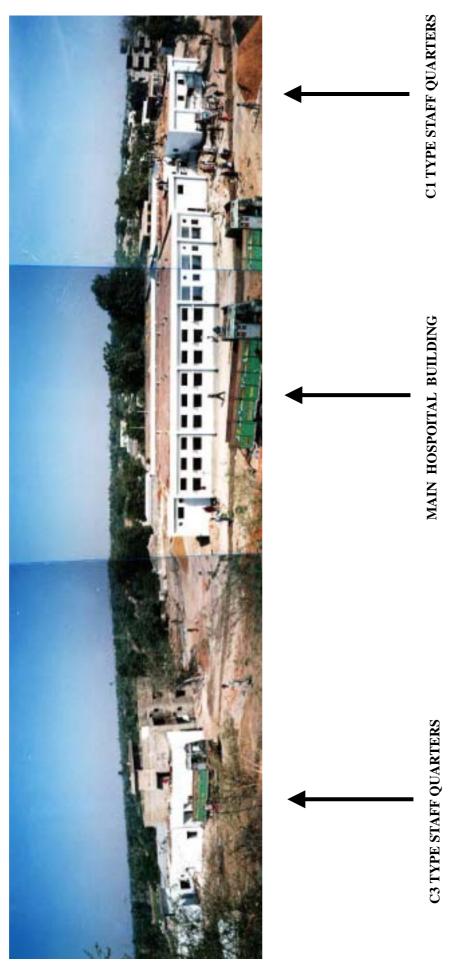


**VIEW POINT 6 (31/12/01)** 



**VIEW POINT 7 (31/12/01)** 







VIEW POINT 1 (31/1/02)



**VIEW POINT 2 (31/1/02)** 



**VIEW POINT 3 (31/1/02)** 



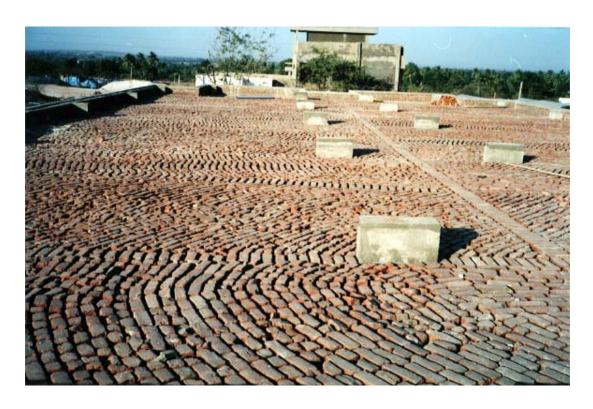
**VIEW POINT 5 (31/1/02)** 



KOTA STONE FIXING – MAIN HOSPITAL (24/01/02)



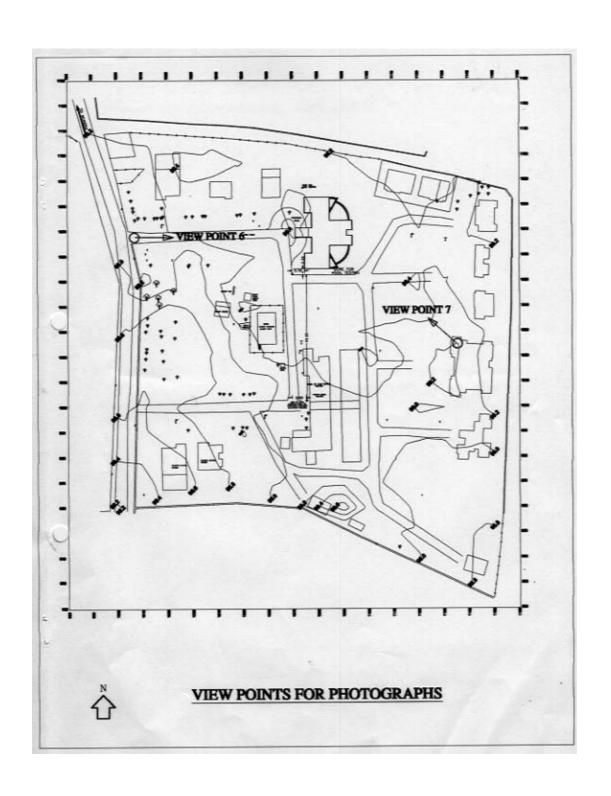
FLOORING WORK – C1 TYPE STAFF QUARTERS (18/01/02)



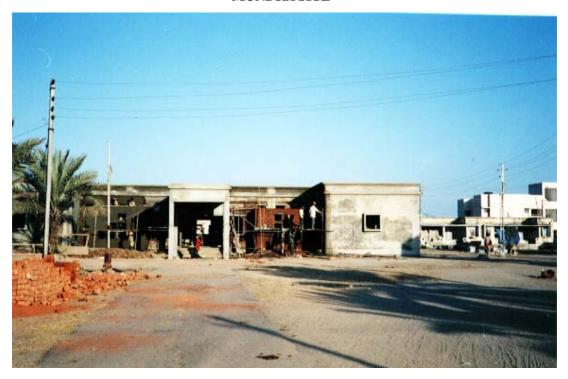
WATERPROOFING WORK (07/01/02)



WATERPROOFING WORK (07/01/02)



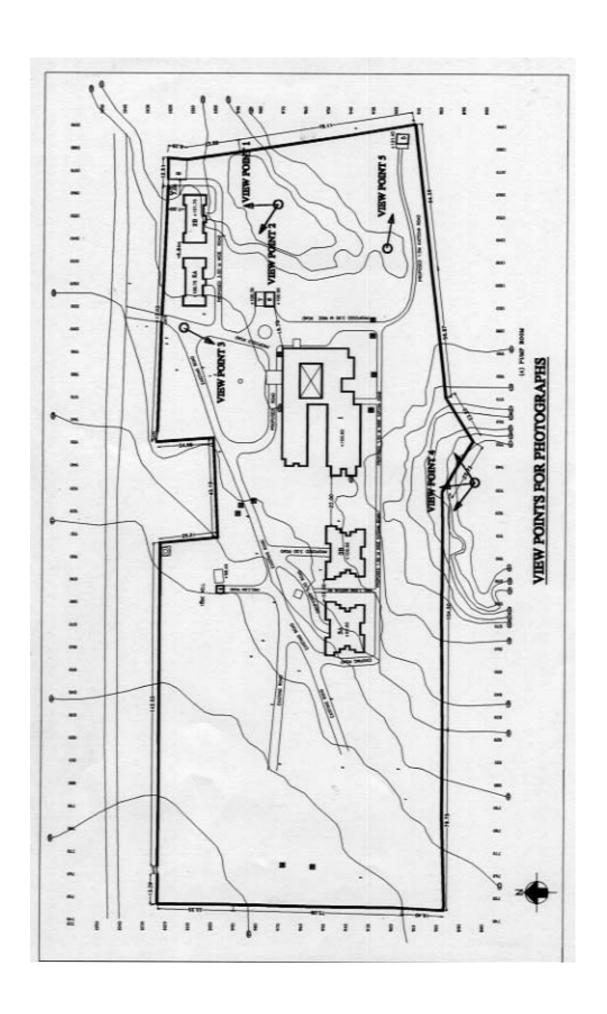
# MUNDRA SITE

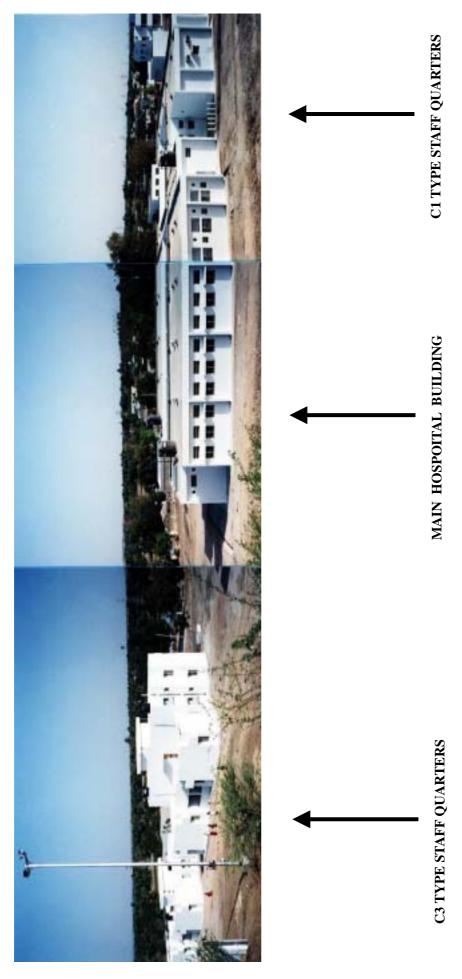


VIEW POINT 6 (31/01/02)



VIEW POINT 7 (31/01/02)





## ANJAR SITE



VIEW POINT 1 (24/03/02)



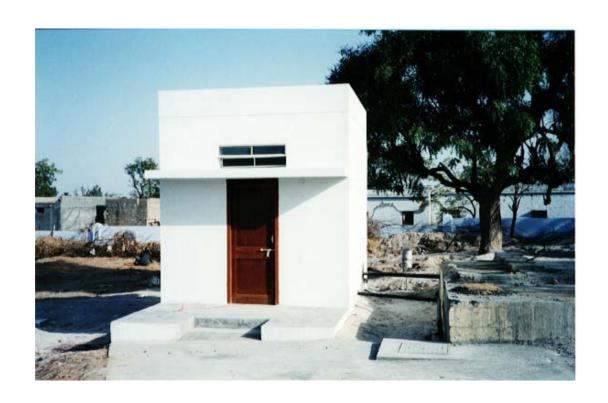
**VIEW POINT 2 (24/03/02)** 



VIEW POINT 3 (24/03/02)



VIEW POINT 5 (24/03/02)

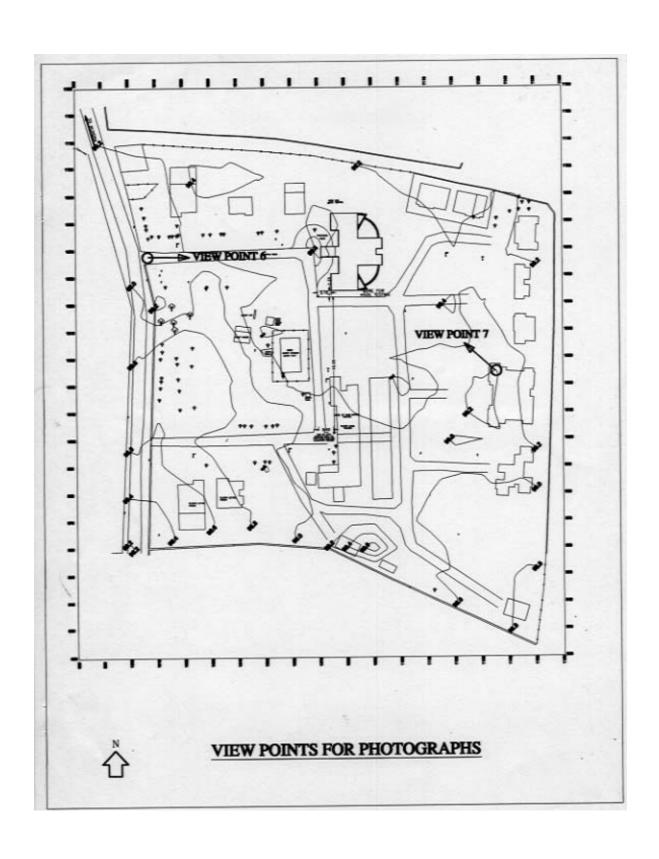


PUMP ROOM (24/03/02)



CORRIDOR MAIN HOSPITAL (24/03/02)

324





VIEW POINT 6 (24/03/02)



VIEW POINT 7 (24/03/02)

326

## 7.9.3 Issues Occurred During the Construction Stage

## (1) Medical Equipment

Feb. 01, 2002

A coordination meeting was held among the Supplier, the building Contractor and the Engineer regarding installation work preparation that need to be incorporated in the building work.

Equipment installation is scheduled to start from March 1, 2002.

Feb. 16, 2002

Installation of the arm for the shadowless lamp in the OT was completed.

Feb. 27, 2002

The communal riot of Gujarat began in Ahmedabad and curfew was imposed.

March 4, 2002

The Supplier reported that except for the hospital furniture all other items were ready to be delivered as soon as the riot situation in town and between the cities settles down.

The factory for the hospital furniture is in the riot affected area and thus it would take at least 5 days after the situation settles down and 10 days for delivery.

March 6, 2002

The factory as well as the Supplier's office was still closed due to the riot.

March 12, 2002

The factory started operation 3-4 hours/day. The Supplier's office was still closed.

March 17, 2002

The Supplier reported that their office area had been under curfew since March 14 and no business could be carried out. They could not tell when they could start business until March 19, 2002.

March 18, 2002

A meeting held for clarifying the present situation and possible implementation schedule

March 23: X-ray machine installation

March 27: Delivery of the items No. F1-15 & F16(Hospital Furniture), H19-31(Medical Equipment), L1-5(Lab. Equipment)

Schedule for the items H1-15, H17, H18 could not be made due to uncertainty of the situation around the manufacturing factory which was located in a sensitive area. On the assumption that the situation

stabilize to the operational level of the factory by 19<sup>th</sup> March, then it could be possible to deliver all the items by the end of the month.

March 19, 2002

The Supplier was instructed to consider alternative manufacturers for the supply of delayed items in case the present manufacturer would not able to supply due to prolonging riot situation.

March 24, 2002

About 70 % of the equipment was delivered to the site and the remaining items were being manufactured.

April 2, 2002

The remaining items' item Nos. were as follows;

H-4, 7, 8, 10, 14, 16, 17, 18, 29 (ready to be delivered as soon as the situation improves)

L-1, 3, 4, 5 (ready to be delivered as soon as the situation improves)

F-3, 7 (ready to be delivered as soon as the situation improves)

F-11, H-1 (will be ready for deliver by April 4)

H-2, 3, 5, 6, 9, 11, 12, 13, 15 (will be ready for deliver by April 5)

Underlined items might be delayed depends of the situation

April 7, 2002

Installation of X-ray machine was completed and instructions were given to the X-ray technician on April 6, 2002. The Supplier reported that delivery of the following items would be delayed due to unexpected accidents at the factory.

H-2, 3, 5, 6, 8, 11, 17, 18

April 11, 2002

All the items except for the following ones were delivered to the site.

H-2, 3, 5, 6, 8, 11, 12, 18 (expected to be delivered on April 17 and the final inspection to be carried out on April 18, 2002)

April 18, 2002 Final Inspection

All the items were jointly checked and confirmed by the Supplier, the Engineer, the Employer and the Superintendent of Anjar CHC and thereafter handed over.

# PART 4

# Chapter 8. Evaluation of the QRS Project

# 8.1 Effects of the QRS project

The Project involves the restoration of educational and healthcare facilities which were damaged in the earthquake which struck the west of Gujarat State in India. Following studies on the rehabilitation and reconstruction plan of the GOG and for the QRS project, it was decided to reconstruct a total of 35 classrooms at 5 primary school locations, a hospital building plus related staff quarters buildings etc. at Anjar CHC, and the maternity building at Mundra CHC in Kutch district.

The QRS project for the healthcare sector and primary educational sector were completed on February 21st, 2002 and May 23rd, 2002 and were handed over to the GOG on April 9th, 2002 and May 24th, 2002 respectively. The expected effects of the QRS project are described below. As the QRS project involves the reconstruction of healthcare and primary educational facilities which collapsed in the earthquake, the basic aim was to restore the facilities to their original status, and improvements or enlargements to account for affected population increases etc. were not the key objectives.

#### (1) Primary School Classrooms

#### 1) Improvement of educational environment

The 5 primary schools included in this QRS project were almost completely destroyed by the earthquake, or else were so severely damaged that even though some parts did not collapse, the resulting damage left them in such a dangerous condition that they could no longer be used. As a result, classes were either held in temporary tent-like structures or else outdoors in the open, and so classes could not be held in times of scorching sun and heavy rains and the like. The new classrooms built as part of this QRS project are earthquake-resistant, ventilated and lighted etc. and so satisfies all minimum requirements and are thus a significant improvement on the current environment outside.

As the educational environment are improved, it can also be expected that educational standards will also improve.

#### 2) Improvement of Quality of Education

The classrooms being built as part of this QRS project, allows each classroom to be equipped

with document/book shelves. This allows the storage of existing educational materials, and also new materials, and thus facilitates a noticeable improvement to the quality and content of education as compared to the temporal outdoor situation.

#### 3) Improvement of Promotion of Health and Sanitation Education

Of the 5 primary schools of this QRS project, only one previously had any form of toilet, and basically it can be considered that no toilet facilities were provided. Before, one can only imagine that both staff and pupils had to endure this situation as best they could. For this QRS project, and in particular consideration of the increasing number of both female teachers and female pupils, each school shall be equipped with separate male and female toilets. Even in the near future, it is difficult to envisage that all houses will have their own toilets, and thus the primary school toilets will for many be their first experience of hygienic toilets. This will allow them to learn about personal hygiene and sanitation, including the washing of hands after use of toilets etc, and thus in the long term will allow the improvement in use and knowledge of health and hygiene.

## 4) Improvement of Community Activities

After the construction of the classrooms, it will be possible that they can be used for a variety of functions for the village use. They could be used as local assembly halls for the villagers, as conference rooms, for the exchange of information, as inoculation centers and several other uses. This would allow the community activities of the local inhabitants to be enlivened, and improvements to the general living atmosphere of the effected villages can be expected.

## 5) Use as Local Disaster Centers

As the new classrooms built in the villages are made of earthquake-resistant concrete prefab structures, which are also fireproof, they can be generally be expected to be safer structures than those of the surrounding buildings, and thus in times of future emergencies or disasters, they could be used as disaster centers for the local inhabitants.

## (2) Community Health Centers

# 1) Improvement of healthcare service

Although the main purpose of this QRS project is to rebuild the earthquake damaged hospital building at Anjar CHC and the maternity building at Mundra, and not to increase the level of healthcare as such, the improved efficiency of the new plans within the outpatient, diagnostic and operation departments, and the improved connecting relationship between them. It is thought that effect will be to allow an increase in the number of patients that can be treated.

Furthermore at Anjar, as new medical equipment replaced some of the old ones lost or damaged in the earthquake, improvements in the diagnostic and treatments standards could be expected.

# 2) Decreased burden on higher-referral hospitals

A typical CHC has approx. 30 beds, but the number of beds of this QRS project at Anjar CHC is 50 beds, and thus able to respond to a larger population in the Anjar area. Whilst it is normal that heavily injured or severely ill patients would be taken to the district hospital at Bhuj, the fact that the rebuilt CHC at Anjar has 20 beds more than normal CHCs, means that this greater capacity places a reduced burden on higher-referral hospitals.

#### 3) Use as local disaster centre

As the previous CHC buildings of this QRS project did not have adequate structural seismic resistance, they suffered severe earthquake damage, resulting in their loss of healthcare function and being unable to act as an emergency center. For this QRS project, however, the new structures have been designed to withstand Zone 5 seismic forces, the highest and most stringent requirements in India, and thus should be able to maintain their functions in the event of an earthquake.

## 8.2 Appropriateness of the Project

## **Time Frame and Progress of the Project**

The time frame of the Project was 12 months starting June of 2001 and ending in May 2002. The Project covered various activities such as the following;

- (a) study for the Rebuilding Plan, which involves 1) scrutinizing the rehabilitation and reconstruction plan of the GOG, and its background data, 2) research on other assistance agencies'/organizations' programs/activities, 3) survey and assessment of actual activities taking place in the fields, etc., and
- (b) implementation of the QRS project, which involves 1) selection of the QRS project sites for/of the primary educational facilities and regional healthcare facilities, 2) obtaining consent for execution of the project from all parties concern, e.g. the GOG, local community, and teachers and doctors of each institution, 3) site survey and analysis of the QRS project sites by the Project Team and the local survey consultant who were selected through biding process, 4) selection of a local consulting firm for design and supervision assistance through biding process, 5) design of primary educational and healthcare facilities, 6) obtaining approval/confirmation of the design for construction from the concerned authorities of the GOG, 7) preparation of bidding documents for construction work of the primary schools, CHCs and supply & installation work of medical equipment, and carrying out of bidding for selection of two contractors, one each for educational and healthcare sectors, and a supplier, 8) supervision of the construction work and equipment supply & installation work, 9) reporting of the progress of each work to the GOG and JICA, 10) handing over of the QRS project to the GOG after completion of each work.

Carrying out all the above activities and accomplishing the Project within the limited time frame considering the chaotic situation due to the earthquake are to be taken as unprecedented and remarkable from the Japanese side point of view. There were many factors that made the Project's completion within the time frame possible. Firstly, the sectors to which the Project to be applied were properly selected. Next, within the sectors, the type of facilities was properly selected. In addition, the construction sites for the facilities were properly selected. Also, the timely request for inclusion of the higher technical educational sector, requested by GSDMA, into the Rebuilding Plan made it possible to study the items and incorporate them into the Rebuilding Plan. Thus it can be said that this Project, from the viewpoint of selected application, was suitable for the relief assistance. This suitability appraisal is here analysed in three matrices.

#### **Theory of Specifying Application**

The first process of specifying application for the Project was the selection of the 35 classrooms for the 5 primary educational facilities and the 2 CHCs. The primary educational facilities suffered destruction from the earthquake, and as part of the basic public social infrastructure in the region, after housing, their restoration was an urgent matter. Similarly for the regional healthcare facilities, their disaster recovery was very important.

In any case, one can say that the assistance provided by Japan for the recovery support, and its application within Kutch district, which is close to the epicentre, was well formed and highly rated. However, within the same area there were many other support organizations also active in similar applications, and the problems of selecting and obtaining the items of application was an obstacle which needed to be faced.

The objectives of this Project were in the areas of educational and healthcare, and in geographical terms, within a radius of approx. 100km of the Bhuj-Anjar area. The epicentre of the earthquake was situated about 300km from the State capital Gandhinagar, and in addition, the time available from the start of the assignment to the completion of the new facilities was only 12 months. This would necessitate considerable tenacity, dedication and the resolution of numerous problems. The objectives however would ensure that efforts would be continuously followed zealously. This appraisal gives an outline of this eventuation procedure.

# **Outline Explanation of Matrices**

The three matrices are those adopted by JICA for carrying out work appraisals. They are based on Project Cycle Management Methodology and to be used for this Project with some amendments.

Firstly in Table 8-1, the Preliminary Stage Process Evaluation Chart is used as it is directly from the JICA Project Management Matrix. From the Project prerequisites, to the high-ranking objectives, each stage of the work is analysed prior to the work, and the Evaluation Table for the pre-start project stage appraises the interrelationship structure.

Next, on Tables 8-2, 8-3, the 5-Item Mid-Project Evaluation Chart is from JICA project appraisal guidelines, and adopts 5-items for appraising the Project in mid-term. Then, on Table 8-4, the Post-Project Evaluation Chart is adopted from the JICA model guidelines for project evaluation at completion stage. For this Project, an additional item for the Rebuilding Plan has been included in the Project appraisal.

Thus from these three matrices, the overall appraisal for the Project was carried out.

## **Preliminary Stage Process Evaluation**

This Matrix uses the Preliminary Project Evaluation Method. The arrows in the chart show the direction of analysis, and at any stage of the project, the spiral staircase layered process allows the analysis of the mutual interrelation structure to be done. Each item of the analysis is explained in outline below.

Firstly, as in point 1) in the chart, the Project can be started on condition that the Project Preconditions are well prepared through the process in the chart. For the earthquake disaster recovery, the GOG is responsible. The GOI is the support side based on the amount of assistance financing available, from the National Budget and the Prime Ministers Basic Funds etc. In addition, the primary educational and regional healthcare sectors were under the jurisdiction of the GOG from before the earthquake disaster. Recently, there is further decentralization strategy, and on many items the State government has more control than the Central government. Generally speaking, through the cooperative experiences of both central governments of India, and Japan, in deciding on the assistance works, complicated processes may arise to be resolved. For this Project, close cooperation was needed between the State government finance department and the Central government Ministry of Finance. This issue arises in the Rebuilding Plan process, in the case where continued assistance would occur, and the State and Central governments would make urgent arrangements to solve the issue in line with the request of the State government. For this disaster recovery support, there were many organizations from many countries which could become mixed up, and thus it was an important issue for the specified application to be arranged. Throughout the implementation of the Project, various problems were encountered and continuous adjustments and effective/efficient solutions were made for continuous progress until completion. The valuable experiences recorded in this report are to be utilized for future projects' smooth execution.

Next, working to 2) in the chart, once the external conditions are fixed, the Project results are reached. At the time of preliminary study, the Project scope of work forms the base of the Project's first stage meetings. The specified applications were made through meetings with each related department, actual site condition surveys carried out, and once the actual construction work for the Project starts, the basic social infrastructure pre-disaster situation, the disaster situation, main government measures, recovery support elements and other investigative studies were simultaneously to be made, so

decisions on the Rebuilding Plan could progress.

Furthermore, from 3) in the chart, once the Project results and external conditions are fixed, the Project objectives are reached. From the damaged basic social infrastructure, the building of 5 primary educational facilities, 2 regional healthcare centres, orderly went ahead, and all were complete by the end of May. In that time, difficult external obstacles were overcome, all issues resolved, which were difficult and confusing, but possible to achieve. In order to provide emergency facilities, the partner countries organizations, cities, buildings, structure standards and the like would need to be studied and actual response actions sought. Going higher, on the stage of engineering technical transfer, this topic still remains. The Rebuilding Plan will be one of the most important for this issue.

Also, as shown in 4), if the Project objectives and external conditions are fixed, then the Project higher-ranking objectives can be reached. The upper-ranking objectives are the recovery of the earthquake damaged social infrastructure, and the State government hopes to complete these by 2003. However, looking at the current situation of the recovery work, this may take until 2010, and if is so, then steps should be taken to ensure the social infrastructure is there by 2010. Thus social infrastructure of education and healthcare should be planned for up to around 2020 in investigation studies.

The supply of facilities is a high-ranking objective of this Project in terms of quantity, quality and donation, and receives a high appraisal from the respective organizations and regional applications. However, it seems as though the response to the needs of Gujarat State and also that of Kutch district may not be enough, and that for the Rebuilding Plan, further assistance is probably necessary.

#### **Ongoing Project 5 Item Evaluation Chart**

Tables 8-2 and 8-3 were used during the Project to highlight the appraisal results of the relevance, effectiveness, efficiency, impact and self-sustainability of the Project.

For "Relevance", we can first say that the suitability of the Project in itself was proper. The earthquake damage restoration required large international assistance, and the recovery work needed to be carried out as quickly as possible, and also to bring as much aid as possible. For the relevance of the Japanese aid work, Japan could sympathize with the devastation, and has experience of disaster damage, so its assistance was considered as particularly valuable. Furthermore, since the USA became involved in numerous terrorist-related events, Japan is assisting Pakistan, India and now

Afghanistan, as the donations for concurrent regional political and economic stability to eliminate terrorism by making up the global strategic environment. These circumstances now make this Project even more significant.

Regarding "Effectiveness", the primary educational facilities are each centrally located in the cores of their respective villages, and they will have the effect of not only improving the regional educational environment, but also the regional public space environment. For the regional healthcare facilities, they are situated in Anjar and Mundra, which after Bhuj are the next major centres, and thus can be said to be in secondary centre cities. In terms of the healthcare service referral system of the government, they are the next most important healthcare facilities after Bhuj General Hospital in the district, and so their prompt reconstruction would be significant to the system. Because this Project basically is humanitarian support there will be no negative effect.

Regarding "Efficiency", the results of the invested resources can be evaluated, but this is also an emergency development Project, and the justification of results is hoped for in terms of the aptness of the amount of investment, utilizing the effective use of local human and industrial resources. However, at the same time, the non-productivity of the human and industrial resources must also be overcome by every possible effort and means the team can provide. On this point as well, this Project has achieved a good result.

For the "Impact", it can also be said that, as the indirect and ripple effect of the results for the overall earthquake disaster recovery programme, this Project is to be evaluated based on inducing and triggering results. Regarding the Japanese assistance, it was not well known in this region, and there were no great expectations, but through the course of the work, the aptness and appropriateness of the JICA work has been well appraised and the trust related to Japan's assistance has grown larger. As a result, the Rebuilding Plan, which is for continuous assistance of the primary educational, technical educational and regional healthcare sectors, was discussed and expectations for realization of the Rebuilding Plan grew.

According to the GOG regarding self-sustainability, there will not be any problems for the facilities and equipment provided under the QRS project.

The results of the 5-item project assessment clearly show that the Project has been particularly worthy.

#### **Appraisal after Project Completion**

This matrix is used for after the completion of the Project and evaluates the overall Project record and work process.

Firstly, as the results, 35 classrooms in 5 schools for the primary educational facilities and 64 beds in 2 community health centres (CHC) for the regional healthcare facilities were completed. And this forms restored basic social infrastructure in an area close to the earthquake epicentre.

Next, for the appraisal of the work process, it can be evaluated that the QRS project was carried out over a wide and dispersed area, covering various disciplines, and completed in a short time achieving the target dates, with many problems being overcome. Furthermore, local materials, local structural methods, local equipment materials, local contractors were effectively used so forming an efficient and effective use of resources. At the same time, engineering knowledge and management technique were transferred and other desirable indirect and ripple results achieved. Additionally, after completion, with maintenance management and the contribution of local companies, one can say that the Project is both sustainable and secure.

In addition, for the Rebuilding Plan, meetings with the heads of the primary educational and regional healthcare sectors were held in order to discuss and confirm the needs of each sector so that the kind of the aid term, which could be applied to, could be selected. Furthermore, through the progress of this Project, together with the increased trust of the counterparts of the Project Team, GSDMA has come to persuade the Project Team to contact to the technical educational sector to be included in the Rebuilding Plan.

It can thus be seen from the above, that the record and work process appraisals show that the Project was shown to be exactly apt.

#### **Appraisal of the Overall Project**

This Project was conducted in a short time frame, covering many sectors, many localities and consisted of a diverse mixture of planning studies and actual building construction. It also involved many organizations, collaborations with local enterprises, and numerous local matters, all carried out in one study work. This is a courageous achievement, as many obstacles had to be overcome, and can be considered as a high-level and difficult project. It is explained how this Project was carried

out in the most apt and successful way as follows.

Firstly, the Background Survey and the Preparatory Study were accurate, and the target sector and scope of works were decided in a timely manner. The specified objectives of the assistance were properly analysed in line with local factors and the Scope of Works was agreed in the Preparatory Study, and after certain details were adjusted at the Inception Report Meeting, thereafter the Project progressed by overcoming problems one by one.

The Project Team has a long experience in the field of study and analysis of educational and healthcare facilities in the South Asia region. With the accumulated knowledge, in particular knowing how to respond to local situations/issues, it was possible to overcome many difficulties in timely manner. In addition, the Project Team possessed the necessary expertise in the respective fields of rebuilding planning, building planning, equipment planning, cost estimation, contract administration, construction supervision. The formation of the Project Team by selecting such personnel with expertise allowed each member to do ones own work well and as a result achieved a successful overall result at the end.

The support of the people of India, the willing participation of the relevant people from the organizations concerned and with the helpful response of the authorities of each area and the management of the relevant sectors, despite the disorder due to the chaotic situation of disaster recovery work, problems were voluntarily solved. This was most appreciated for the smooth progress of the work. The Director of the Central Government Ministry of Finance, Mr. Mulay; the Principal Secretary of the Gujarat State Government Department of Finance, Mr. Mankad; the Secretary, Mr. Mukim; the Joint Secretary, Ms. Aparna; the Director of PE, Mr. Chaudhari, the Director of DPEP, Mr. Josh; Mr. Bhad; Dr. J. I. Chenath, Dr. RN Shah, Dr. Bhatt, Dr. V.T. Javali of DHMS & ME; the Director Technical Education Directorate, Mr. Kapadia; and others; and also the Collector of Kutch district, Mr. Chhibber and his staff, the DPEO, Dr. P. T. Pandya and the CDMO, Dr. L.M. Chandana, Dr. S. Bheda and also to all other key persons, from the Japanese assistance side, we wish to extend our deepest gratitude for their earnest and energetic response and cooperation.

The effective utilisation of local enterprises was an important matter for this Project. In particular, the consultant firms were an important element to the progress the Project. The work of Dr. Takka of KCT Surveyors and Mr. Shah, Mr. Manan Thakore, Mr. Prashant Thakore of Dalal Consultants also were major and positive contributions.

The Draft Final report was presented to the GOI/GOG on August  $6^{th}$ , 2002, and after meetings and discussions, the Final Report was prepared.

The overall appraisal is that Project has been exceedingly appropriate, effective, efficient, and the QRS project has considerable indirect and ripple effects and realisation of the Rebuilding Plan for continuous support could also lead to effective results.

Table-8-1 Project Overall Assessment Matrix for the Project Assessment at Pre-Project Stage

The preliminary assessment evaluates the mutual interrelation issues at each stage of the process.

| Narrative                      | Objectivity                      | Means of                         | Important                          |
|--------------------------------|----------------------------------|----------------------------------|------------------------------------|
| Summary                        | Verifiable Indicators            | Verification                     | Assumptions                        |
| Overall Goal                   | Attainment Index                 | Resources of Index               | Unstable Factors                   |
| Indirect and long term         | of the Project                   | of the Project                   | Affection to the effect            |
| - Restoration of Kutch BHN     | - Recover the Pre-earthquake     | - GOG, DPEP                      | - Continuation of Human Resources  |
| - Reconstruction of Social     | Condition of Education           | Packages for Rehabilitation      | Supply by GOG                      |
| Infrastructure in Kutch        | - Recover the Pre-earthquake     | - GOG, DHMS&ME                   | - Continuation of maintenance      |
| - Rebuilding Planning of       | Conditions of Health             | Packages for Rehabilitation      | - Development of Social            |
| Kutch Education & Health       | - Recover the Pre-earthquake     | - GOG, DH&TE                     | Infrastructure by GOG              |
| Rutch Education & Health       | Conditions of T.E.               | Packages for Rehabilitation      | - Development of Economic          |
|                                | (Technical Education)            | Fackages for Renadification      | Infrastructure by GOG              |
|                                | All; until 2003                  |                                  | - Participation of people          |
| Project Target                 | Attainment Index                 | Resources of Index               | Uncertain Factors                  |
|                                |                                  |                                  |                                    |
| Purpose of the Project         | of the Project                   | of the Project                   | of the Project                     |
| - Provision of 5 Primary       | - 35 seismic resistant           | - Data from Urgent Relief        | - Design Certification             |
| schools in the affected center | classrooms by 2002/3             | Mission of JICA as of Feb.       | - Building Permission              |
| - Provision of 2 CHCs in the   | - 50 bed CHC and 14 bed          | - Data of Background Survey      | - Local Firms' Capacity            |
| affected center                | maternity building of CHC        | of JICA as of Mar., 2001         | - Local Technology Level           |
| - Study of more needs for the  | by 2002/3                        | - Data of Preparatory Stady of   | - Local Workmanship                |
| educational and health         | - Needed assistance for          | JICA as of April, 2001           | - Standards of Local Materials and |
| infrastructure assistance      | Teachers' Training Center,       | - Identify the Targets by study  | Products                           |
|                                | 100 bed General Hospital,        | of the Team on Inception         | - Boundaries Confirmation          |
|                                | Institute of Technology and      | Report and Meetings with         | - Lifeline Confirmation            |
|                                | others                           | GOG                              |                                    |
| Outputs                        | Output Index                     | Resources of Index               | External Factors                   |
| Facilities and Services        | Benefit for the affected         | of the Project                   | for the Implementation             |
| - Fix the Agreeable Target in  | - 1400 Children a Year of        | - 2001/04/26 M/M, S/W            | - Ongoing Process of newly         |
| Detail of Education Sector     | Important 4 Villages             | - 2001/06/26 M/M <b>3</b>        | Establishing Building Codes and    |
| - Fix the Agreeable Target in  | - 64 Inpatients and 600 Out-     | - 2001/07/05 L/C Letter of       | Standards                          |
| Detail of Healthcare           | patients of 2 Important          | Confirmation for CHCs            | - Ongoing Process of newly         |
| Sector - Fix the Agreeable     | Talukas                          | - 2001/07/06 L/C Letter of       | Establishing Earthquake-resistant  |
| Target in Detail of the Needs  | - Study of Rebuilding Plan for   | Confirmation for schools         | Design Standards                   |
| for more Support to            | Important Education and          | - 2001/10/01 S/D of the Needs    | - Ongoing Process of newly         |
| Education and Healthcare       | Healthcare Infrastructure        | of More Assistance               | Establishing Urban Design          |
| Sectors                        |                                  |                                  |                                    |
| Activities                     | Input of GOJ                     |                                  | External Conditions                |
| Design and construction        | Resources (human, money, and     | d material) for the activities   | to keep effects                    |
| - Study                        | - Required Resources             |                                  | - Broadness of the Areas           |
| 1. Damage Situation            | 1. Dispatch of Project Team (01) | /06/06-02/05/29,                 | - Distance of the Villages         |
| 2. Restoration Programme       | 02/08/04-02/08/18)               |                                  | - Very Urgent Short Term           |
| -Implementation                | 2. Construction of 5 schools and | 2 CHCs                           | - No Experiences of the Villages,  |
| 1.Basic Design                 | 3. Study of Future Needs for Ed  | Taluka and State for Restoration |                                    |
| 2.Contract Document            |                                  | with assistance                  |                                    |
| 3.Contract                     |                                  |                                  |                                    |
| 4.Construction Management      | Input of GOG                     | Preconditions                    |                                    |
| 5.Completion                   |                                  |                                  |                                    |
| 6.Handing over                 | Resources essential for the act  | ivities                          | Start and Re-start                 |
| 7.Follow-up study              | Required Resources               |                                  | - GOI Request based on GOG         |
|                                | - Counterpart Organization of G  |                                  | Strong and Urgent Needs            |
| '                              | - Local Portion of Equipment an  | d Facilities 1                   | - Identification of the Project in |
|                                | - Maintenance Cost and Manpov    |                                  | Complicate Multi-national Urgent   |
|                                |                                  |                                  | Assistance                         |
|                                | I                                |                                  | 1 10010tunec                       |

Once **preconditions** are fixed, move into **Inputs** 

Once external conditions and activities are fixed, aim to project output

## Output and external factors are fixed, aim to project target

Project target and uncertain factors are fixed, overall goal will be achieved

Notes: DPEP; District Primary Education Program (Division): DHMS&ME; Department of Health, Medical Services & Medical Education: DH&TE; Department of Higher & Technical Education: CHC; Community Health Center: M/M; Minutes of Meetings, S/W; Scope of Works: L/C; Letter of Certification: S/D; Summary of Discussions

 Table-8-2
 Five Overall Evaluation Views Matrix 1
 5 items Evaluation at Project Stage

Appraising the contents of this Project using the 5 main items, as described below.

| Views                    | Items   | Evaluation   |
|--------------------------|---|--|
| Relevance                | 1. Is the Project relevant to the needs of                | 1. As Governmental Programme/ODA of Japan, Assistance to   |
| Adaptability to the      | Recipient Country?  | India, Response to Indian Request, Transferring of   |
| needs of GOG and         | 1) Selection of objectives                                | Technology   |
| Validity to the Grant by | Correctness of Selection                                  | 1) Right in terms of target and scope  |
| GOJ                      | (Target, Scale)?  | Correct Type, Number and Scale in right places of  |
|                          | 2) Objectives adaptability                                | important Talukas and Villages   |
|                          | Match to the Needs?                                       | 2) Very Urgent Needs   |
|                          | 3) Consistency to GOG policy                              | Demands must be quickly met as Very Urgent Support   |
|                          | Consistency to GOG/GOI policy?                            | 3) Directly in line with the GOG Rehabilitation Policy   |
|                          | Consistency to GOG/GOI poncy:                             | Follow to GSDMA Programme  |
|                          |   | 2. To JICA's Country Strategy, GOJ's Diplomatic Stand and,   |
|                          | 2. Consistent to COI Assistance                           | National Posture of Mutual Economic and Cultural   |
|                          | 2. Consistent to GOI Assistance                           |  |
|                          | Programme?  | Exchange   |
|                          | 4) Consistency to GOJ policy                              | 4) Accord to the Support Policy of Japan   |
|                          | Meet to GOJ cooperation policy,                           | GOJ as No. 1 Support Nation to India, GOI as No. 4 of  |
|                          | Diplomatic Tie, Programmes to                             | GOJ International Cooperation <sub>o</sub>   |
|                          | India?  | 5) Fair as Reconstruction of Social Infrastructure   |
|                          | 5) Fairness to other sectors                              | Contribution to Restoration of Collapsed Primary   |
|                          | Fair and Impartial?                                       | Education and Basic Healthcare Facilities as Social  |
|                          | (Benefit and Effect)                                      | Infrastructures  |
|                          | 6) Transferable technology                                | 6) Earthquake-resistant Design Methodology   |
|                          | Any Transferable Technology?                              | Hanshin-Awaji Earthquake Experiences will be utilized  |
|                          |   | for Seismic Structure of the Facilities  |
|                          | 7) Good and bad to relevance                              | 7) No assistance experiences in West India   |
|                          | Any Influential Matters?                                  | Small Expectation and then Big Expectation by  |
|                          |   | appreciating the Works done by the Team  |
| Effectiveness            | Can expected Result be obtained from this                 | Logic of the Plan, Accuracy of the Target, Conditions of   |
|                          | Project?  | Success, Reliability   |
| Expected effect by the   | 1. Attainment of satisfactory effect                      | 1. Expectable  |
| project                  | Can expected objectives be attained?                      | Confirming the Right Target, Number, Scale and Ways  |
| project                  | 2. Sole effect by the Project                             | 2. The effect is to be comprehensive. complicated and  |
|                          | 2. Sole effect by the Project                             |  |
|                          | Will this depend on the sole Decult?                      | multi-organizational/national  |
|                          | Will this depend on the sole Result?                      | No, it will be an integration of various support   |
|                          | 3. Outer influences to the effect                         | 3 .No negative influences  |
|                          | What are the External Influences?                         | No negative conditions   |
|                          | 4. Good and bad influences to this                        | 4. Too many number and types of donors   |
|                          | What are the hindering factors?                           | Confusion from various support   |
| Efficiency               | With the input of resources will the result               | Appraising if the Input resources is put to maximum effect   |
| Input/output ratio       | be as expected and the Project efficient?                 | 2 Evaluation Methods; Output/Input Rate: Result/Plan Rate  |
| Project effectiveness    | 1. Balance of input/output                                | 1. Appropriate balance is to be achieved   |
| Negative and             | Satisfactory Output?                                      | Appropriate Input and Expected Result  |
| affirmative factors      | 2. Utilization of input resources                         | 2. Perfectly utilized by the children, community and GOG   |
|                          | Adequate Input? fully utilized?                           | Whole affected Society can utilize the facilities extended   |
|                          | 3. Timing of Commitment                                   | 3. Just in time despite of slow start  |
|                          | Right?  | Start slowly: complete quickly   |
|                          | 4. Quality/quantity appropriateness                       | 4. Minimum input for maximum output in urgent case   |
|                          | Input Quantity/Quality is right?                          | Right, by minimizing the input with maximum utilization of   |
|                          | input Quantity/Quanty is right:                           | local manpower and resources   |
|                          | 5. Alternatives possibility                               | 5. No alternatives at that time  |
|                          | More efficient alternatives?                              |  |
|                          |   | No Target Alternatives, no other Implementing  |
|                          | 6. Outer influences to the process                        | 6. Programmes Confusion on site adoption affected by   |
|                          | From Start to End, any outer factors?                     | other NGOs   |
|                          |   | Village Adoption, Sector Adoption, Facilities Adoption   |
|                          |   |  |
|                          | 7. Influences of pre-requisites                           | 7. Capacity of local construction industries   |
|                          | Any pre-requisite affect?                                 | By supporting Local Firms, no negative affection   |
|                          | Any pre-requisite affect?  8. Good and bad affect to this | By supporting Local Firms, no negative affection<br>8.Project/Construction management ability of local firms |
|                          | Any pre-requisite affect?                                 | By supporting Local Firms, no negative affection   |

 Table-8-3
 Five Overall Evaluation Views Matrix
 2 5 items Evaluation at Project Stage

Appraising the contents of this Project using the 5 main items, as described below.

| Views               | Items   | Evaluation   |
|---------------------|---|--|
| Impact              | Were there direct and indirect impacts of                         | Expected Longer Term, Indirect Impacts and Ripple effects by the   |
| Indirect impact     | the Project?  | Project  |
| Ripple effect       | 1. Overall goal   | 1. Partial contribution to the full restoration of   |
|                     | Clear the aim for the Overall Goal?                               | earthquake-destruction   |
| Negative and        | 2. Impact directly to the goal                                    | Do a Part of Social Infrastructure Restoration Goal until 2003  2. Very small portion but substantial and speedy support   |
| affirmative         | Is the Overall Goal achieved only by                              | Only 0.6% of Restoration of Primary Schools and 15%  |
| аунтанче            | the Project?  | Restoration of Basic Healthcare Facilities, but good impact to all   |
|                     | 3. Outer influences to the process                                | 3. Too much damages, to be well managed by GOG   |
|                     | Any obstacles to the Overall Goal?                                | Low Growth of State Economy: Negative Legacy of Numerous   |
|                     |   | Natural Disasters: No Pre-established Disaster Managing System   |
|                     | 4. Unexpected factors   | 4. Not very much   |
|                     | Unexpected + & -?   | Project Process is appreciated by GOG on the way of Finalizing   |
|                     | 1) Affect to the policy   | 1) Significance of JICA/GOJ urgent support is understood   |
|                     | + Effect?   | Good effect to the Project   |
|                     | 2) Economic effect<br>+ Effect?                                   | 2) 100% support system of JICA is appreciated  |
|                     | + Effect?   | Generally NGOs' Support are 50% of Total Budget, other 50% will be provided by GOG   |
|                     | 3) Administrative/Jurisdiction                                    | 3) GOG/GSDMA initiatives are to be strengthened  |
|                     | Affect to the Institutional, Legal,                               | Quick Progress of this Project affects the Quick   |
|                     | and Administrative Matters?                                       | Re-establishing of Institutional, Legal and Administrative   |
|                     |   | System of Disaster Restoration   |
|                     | 4) Technology break-through                                       | 4) Seismic resistant permanent pre-fabrication structure   |
|                     | Any Technology Transferring?                                      | Experiences of earthquake is utilized  |
|                     | 5) Women, human rights, poverty                                   | 5) The project will affect effectively to those humanitarian   |
|                     | Any Influences to Women's Status,                                 | problems   |
|                     | Human Right and Poverty?  | Primary Education and Basic Healthcare Environment are   |
|                     | 6) Environmental issues   | crucial conditions to those problems as social infrastructure  |
|                     | Any Influence to the Community                                    | Very small impact     Low Environmental Impact Materials, Products and Equipment   |
|                     | Environment?  | are used to lessen the impact to the surroundings  |
|                     | 5. Good and bad affect to this                                    | 5. Institutional and organizational inefficiency   |
|                     | Positive/Negative Affects?  | Institutional/Administrative Matters were considered to be   |
|                     |   | negative, but developed to be progressive  |
| Sustainability      | Can the effects of the Project be                                 | The Project is for Restoration of Public Facilities for self-sustainable   |
|                     | continued after completion of the works?                          | institutions to have enough administrative, monetary, and human  |
| Is it sustainable?  | !   | resources  |
| G 11 CC .           | 1. Continuity   | 1. Expected  |
| Succeeding effect   | Will the Effects be sustained?  2. Affirmative & negative factors | Recovering programme will have no problem of sustaining  |
| Negative and        | 1) Political back up  | Strategy wise affirmative and finance wise negative     Continuity is secured  |
| Affirmative Factors | State Policy succeed  | Each is major Rehabilitation projects of the GOG (DOE and  |
| Timmun vo T words   | 2) Administrative Capacity  | DOH)   |
|                     | Capacity of human, budgetary and                                  | 2) Shortage of human resources and budget  |
|                     | decision making process?  | Pre-earthquake education and health facilities were 80% of   |
|                     |   | National Standards and almost all were destroyed by the  |
|                     | 3) Juridical matters  | earthquake.  |
|                     | Basic Standards established and                                   | Complete rehabilitation may not end until 2010.  |
|                     | being under re-establishing                                       | 3) Now being re-establishing   |
|                     | 4) Financial Canacity   | Urban/Architectural planning, design and construction codes  |
|                     | 4) Financial Capacity Financial Sustainability?                   | and standards are well organized, but earthquake resistant regulations are to be developed   |
|                     | 5) Maintainability  | 4) Maintainable  |
|                     | Technical Sustainability?   | Major State Programme must be maintained   |
|                     | 6) Socio-cultural barriers  | 5) Problems of scarcity and social structure   |
|                     | Socio-cultural Factors?   | No problem   |
|                     | Women and Poverty Factors?  | 6) Town planning should manage   |
|                     |   | Participatory Planning Methodology will be adopted for   |
|                     | 7) Environmental problems   | Village and Town Management to solve Problems of Culture,  |
|                     | Bad Effect?   | Woman, Child, Castes/Tribes, and Poverty   |
|                     | 3. Good and bad affect  | 7) Natural ventilation and natural lighting  |
|                     | To sustainability?  | Low impact facilities 3. Social conditions   |
|                     |   |  |
|                     |   | Low Enrolment, High Drop-out, Low Hospitalization, Low Labor<br>Standards and others to be improved  |
|                     |   | Samuel of the state of the stat |

**Table-8-4** Overall Implementing Assessment Matrix on the Project at Post-Project Stage

From the Matrices above, assessing actual construction this evaluation is made.

| Items           | Subjects  | Evaluation  |
|-----------------|---|---|
| Achievement     | Evaluation of the actual work achieved in         | It is difficult to make an evaluation of the actual benefits by the   |
|                 | the Project                                       | Project, but the assumed benefits may be evaluated  |
| Result          | 1. Input, quantity/quality                        | 1. 5 schools with 35 classrooms and 2 CHCs with 64 beds   |
|                 | Total of Input (Including all Input)?             | Together with Implementing services   |
|                 | 2. Output attainment                              | 2. 100% to be used as Village Community Meeting Spaces  |
|                 | Achieved Portion?                                 | Completion before 2001/03/31  |
|                 | 3. Project objectives                             | 3. 100% but still many more need to be built  |
|                 | Achieved Study?  4. Goal attainment               | Target Areas/Target Institutions have much more to be built  1. Difficulty of complete reconstruction of all colleged   |
|                 | Final Goal?                                       | 4. Difficulty of complete reconstruction of all collapsed  Total Devastation Rehabilitation is difficult to be achieved |
| Process         | There are influential factors affecting to        | This Project is Special Case of Social Development Study on the   |
| Trocess         | this Project to be described below                | Reconstruction Support for the earthquake-devastation in India with   |
| Actual Process  | this i roject to be described below               | facilities provision for the Educational and Health Sectors and study   |
| 1100000         |   | for continual assistance to the sectors as Rebuilding Plan  |
|                 | 1. Activities as planned                          | 1. Achieved as planned  |
|                 | Have activities been realized as                  | After Explanation of the Preliminary Inception Report, agreed on  |
|                 | planned? (Including later arrangement             | some modification and fixed the Scope of Works, and then study  |
|                 | to plans)   | and Implementation were carried out   |
|                 | 2. Project Monitoring                             | 2. No third party monitoring except GSDMA and UNDP  |
|                 | Any Monitoring Procedures?                        | Advisory Mission/JICA, (01/11/18-11/26)   |
|                 |   | Chancellor's Visit/Japanese Embassy, India, (01/12)   |
|                 | 3. Counterpart formation                          | 3. No steering committee issues but key personnel issues  |
|                 | Relationship of GOJ Consultant and                | Due to wide dispersion of organizations concerned across the  |
|                 | GOG Counterparts?                                 | affected areas, key personnel should be responsible on the  |
|                 |   | consensus within respective department  |
|                 | 4. Commitment of beneficiary                      | 4. Not directly but through GOG/DPEP  |
|                 | Beneficiaries' Relationship to this               | As this Project is quite urgent and complicated, the Participatory  |
|                 | Project?  | Relationship of Direct Beneficiaries is difficult.  |
|                 | 5. Ownership of recipient organization            | 5. Ministry of education and medical and villages   |
|                 | Have the Ownership of the Recipient               | All assistance is managed by Public Sectors which will be   |
|                 | Country's Organizations been                      | responsible for the establishment of the Ownership  |
|                 | established?  6. Project implementing methodology | 6. Utilization of local consultants, institutions and contractors   |
|                 | o. Troject implementing methodology               | o. Cuitzation of local consultants, institutions and contractors  |
|                 | Any Special Idea/Methodology taken for            | Making effective use of Local Materials, Local Construction Methods,  |
|                 | Enhancement of the Effect of the Project?         | Local Equipment, Local Survey/Design Firms, Local Contractors, etc.   |
|                 |   | to achieve Low Prices for the Facilities and to benefit Local Industrial  |
|                 |   | Society   |
| Study           | For this Project there are facilities to be       | The appropriate Facilities are actually built for the Education and   |
|                 | provided and Rebuilding Plan to be                | Health Sectors and the Rebuilding Targets were also selected for the  |
| Rebuilding Plan | studied. Below are the steps for the              | two Sectors. Furthermore, GSDMA suggested the Plan should cover   |
|                 | planning  | the Technical Education Sector as well  |
|                 | 1. Cooperation                                    | 1. GOG, GSDMA, DPEP, DOH&ME, DOH&TE   |
|                 | Organizations concerned                           | Directors of concerned Directorates/Commission rates  |
|                 | 2. Resources                                      | 2. GOG, GSDMA, UNICEF, UNDP, WB, ADB, and Books   |
|                 | Basic Resources for the Rebuilding                | Web sites of WB, ADB, UN, UNDP, GSDMA and MOFA/JICA of  |
|                 | Plan 3 Design Process                             | GOJ and Embassy of Japan in India 3. DPEP and DOH&ME  |
|                 | 3. Design Process Study in Design Phase           | Director of DPEP and Director of DOH&ME   |
|                 | 4. Fieldwork                                      | 4. Kutch District   |
|                 | Study on Site                                     | Sites of Primary Schools, CHCs and Technical Education in Kutch   |
|                 | Study on Site                                     | District  |
|                 | 5. Discussion                                     | 5. Directors of Directorates/Commisssionerates and MOF of   |
|                 | Discussions with officials concerned              | GOG   |
|                 | 1   | Mr. Josh, Mr. Bhatt, Mr. Kapadia and Ms. Apalna   |
|                 | 6. Summary  | 6. Secretary of Finance   |
|                 | Summary of Discussions for                        | Mr. Mukim, Secretary of Finance Department, GOG   |
|                 | Identification                                    | · • • • • • • • • • • • • • • • • • • •   |
|                 | 7. Construction Process                           | 7. Continuous discussion  |
|                 | Additional Study in Construction                  | Additional Studies and Additional Discussions   |
|                 | Phase   |   |
|                 |   |   |

#### 8.3 Recommendation

The Project for the Reconstruction Support for the Gujarat-Earthquake Disaster in the Devastated Areas in India is to urgently provide the social infrastructure in the primary educational sector and basic healthcare sector (QRS project) and to study the Rebuilding Plan in those sectors to be hopefully finalized by year 2003. The recommendation will be studied by assessing and evaluating all procedures of the project implementation for 5 schools and 2 CHCs and by discussing the urgent need of devastated educational and healthcare sectors with officials concerned of the GOG.

A matrix of studying system is adopted for the assessment and evaluation of the Project based on the JICA Project Cycle Management Programme. The Project Design Matrixes, the Five Implementing Views Matrixes and the Implementing Assessment Matrixes are used for the study on the QRS project in the primary educational sector and basic healthcare sector. The Project Study Matrix, Five Pre-implementing Views Matrix and the Pre-implementing Assessment Matrix are used for the potential projects in technical educational sector introduced by GSDMA.

A lot of potential projects were studied in the meetings for the QRS project. Finally 8 projects were short-listed as in the Minutes of Meeting (M/M) between the GOG and the Project Team for the Rebuilding Plan on August 14<sup>th</sup>, 2002. Table 8-5 is based on the M/M. The priorities in each sector are expressed in the table and the priority of all will be studied by using the Matrixes.

In the final discussion for the Rebuilding Plan the followings were mentioned of further action of JICA/GOJ.

- 1. All needs are simply from financial difficulties of the GOG/GOI
- 2. There are four categories listed in the Rebuilding Plan:
  - 1) Primary education
  - 2) Technical education
  - 3) Basic healthcare
  - 4) Community Training
- 3. The priority of each category is decided in consultation with the concerned sectors in the GOG
- 4. If two or more projects are to be implemented, there will be three types of patterns:

Series type of cooperation (one by one)

Parallel type of cooperation (one with one)

Comprehensive type of cooperation (one in one)

- 5. All the scope of works and terms of references of the projects have not been fixed yet
- 6. All projects have not yet been adopted by JICA assistance programmes and are subject to further discussion between the GOG/GOI and the GOJ.

The last two columns in the **Table-8-5** are additional ones to show value and priority.

**Table-8-5 Priority Matrix for Potential Rebuilding Projects** 

|       | Priority Matrix   | Five      | Evaluation V | Views 20 point | will be for the | e best             | Value         | Priority      |
|-------|---|-----------|--------------|----------------|-----------------|--------------------|---------------|---------------|
| No.   | Institutions  | Relevance | Effect       | Efficiency     | Impact          | Sustain<br>ability | (100<br>max.) | (in<br>order) |
| Prima | nry education   |           |              |                |                 |                    |               |               |
| 1     | Equipment/Material Supply   | 5         | 10           | 20             | 20              | 5                  | 60            | 5             |
| 2     | More Classrooms   | 20        | 15           | 15             | 5               | 20                 | 75            | 3             |
| Techn | ical Education  | <u>l</u>  |              |                |                 |                    | · L           | · L           |
| 3     | Institute of Seismology, Bhuj   | 20        | 20           | 20             | 20              | 15                 | 95            | 1             |
| 4     | Engineering College, Bhuj   | 20        | 15           | 20             | 20              | 15                 | 90            | 2             |
| 5     | Vocational Training Centre, Bhuj  | 10        | 10           | 10             | 5               | 10                 | 45            | 6             |
| 6     | Pharmacy College, Lakhtar   | 5         | 10           | 10             | 5               | 10                 | 40            | 7             |
| Basic | Healthcare  | Į.        |              |                |                 | ı                  | ı             | ı             |
| 7     | A Package Project  1) Mental Care and Rehabilitation Centre, Bhuj  2) Expansion of Anjar CHC  3) Regional Logistic Medical Store Centre, Bhuj  4) Six PHCs  5) Five Allopathic Dispensaries and three Sub Centres | 20        | 20           | 20             | 20              | 15                 | 95            | 1             |
| Com   | nunity Training   | 1         |              |                |                 |                    | T             | T             |
| 8     | Knowledge Transfer via GSDMA  | 15        | 15           | 10             | 15              | 10                 | 65            | 4             |

20; excellent 15; better than average 10; average 5lower than average

#### **Process of Rebuilding Plan**

The aid to primary educational and regional medical facilities from Japan is implemented from the humanitarian point of view and for the necessity of contribution to the earthquake disaster restoration based on the experiences and compassion of an earthquake-prone country.

As it can be seen in many reports, the large magnitude of disaster has caused enormous damage. Despite many can-do intents to the aid, the implementation is not going as well as expected and the assistance is still not sufficient enough, and it requires further assistance from Japan.

As already mentioned, even before the disaster, for both the healthcare and primary education, the Human Development Index (HDI) of India is 115th in the world as reported in the Human Development Report 2001 by UNDP, and Gujarat State which has a higher level compared with other States, still does not achieve the expected level.

However, this type of upgrading should be more the objective of other aid concepts rather than the objective of the urgent aid for earthquake disaster restoration.

Especially in the field of education, the improvement of the deteriorated basic educational structure is, as Dr. Alexander appealed, not following to the stipulation of the nation constitution of India, and it is an important key element.

Dr. Alexander pointed out also that through the domino effect the deteriorated basic educational structure is causing the decrease of higher education level.

However, the primary educational facilities are being assisted by many foreign organizations and international and domestic NGOs with their various activities. While it is, of course, still necessary to do, in order for Japanese assistance to be strongly impressed, a large-scale assistance needs to be considered as mentioned separately.

With respect to the above, the higher technical education field is being highlighted in the extent of objectives of educational aid, and it is a meaningful indication for Japanese assistance.

Firstly, for the request of primary education aid, the consultation is, if anything, started from the pointing out of the insufficient areas of the aid, which the Project Team felt during implementation.

Secondary, for the regional healthcare, the selection of aid items is discussed based on the understanding of the current situation and the questionnaires for any aid request items sent from the Project Team to the State government.

For the higher education aid, the consultation started on the strong request from the high technology education authority of the Department of Education of the State Government.

In any case, during implementation of the Project, the trust and expectation to the JICA assistance grew gradually, so it becomes a basis of the request of various aid items.

In order to select the items for Japanese aid from the various items, the most important conditions are, whether it will produce a preferable result for Japan, whether it is suitable for Japan rather than other countries, whether Japan can do it well and whether the recipient will greatly appreciate it, and it has to fulfil the 5 so-called aid evaluation items.

#### **Assistance Request for Primary Education**

Generally, the assistance request for the reconstruction of primary education facilities does not seem to be very serious.

As already analyzed, the present rate of sufficiency of assistance is to be sufficient if ignoring the increase of population.

It is a matter of concern that the impression of small-scale aid will be faint compared with the Netherlands aid, an overwhelmingly large-scale aid of approximate 5 billion yen.

The primary education facilities aid is suitable for NGO objectives as the scale of each project is relatively small.

From the above-mentioned point of view, the requirements of aid in this field are not necessarily so much. However, the experience of 5 school buildings construction should be valued, and as a practicable assistance target it has a great value in terms of the effectiveness of such experience.

## **Assistance Request for High Technological Education**

Because there is a great expectation of Japanese technology for the assistance for high technological education, this field is considered as a major objective in terms of effectiveness and existence.

The case of Institute of Technology, Bhuj is the reconstruction of total destruction and is not of too large a scale. The amount of the State government project budget for that is approximately 1.11 billion yen as shown in Table 8-6.

The cost for the Institute of Seismology, Bhuj is estimated as approximately 0.74 billion yen and is much smaller. As for the concept of the Institute, Bhuj City is the suitable place as it is the center of disaster, however the central government is also considering it and the State government is proceeding with a study of it as the expansion of GSDMA. The case of Bhuj might be considered as a decentralized core of such facilities.

For the vocational training centre, despite its lower priority and less practicability, the intention from the State government is not negligible.

The pharmaceutical college has been considered as part of healthcare aid implementation, while it is categorized under the technical education in India.

Among the different areas, the technical education has the highest demand of assistance.

#### **Assistance Request for Basic Healthcare**

Considering the hardship that the people of catchment area of each healthcare facility listed, realization of this package project is urgently needed and will be appreciated by all those suffering after the earthquake.

Further, because all the facilities are situated in Katch district, the ripple effect of realization of this package project along with the QRS project will create significant impact on the people of Katch district.

Moreover, conditions of each item of the package project are identical to that of either Anjar CHC or Mundra CHC, e.g. restricted time and budget, needs to be designed for local medical standards level and self-sustainable operation, etc. Therefore, the experience from implementation of the QRS project can be fully utilized for efficient and effective realization of the package project.

#### **Concept of Priority Matrix**

The matrix evaluation items are explained hereunder.

Relevancy is to evaluate the consistency with the needs of the recipient country and the value as Japanese aid.

Effectiveness is to evaluate the possibility of the expected effect.

Efficiency is to evaluate the possibility of the expected output according to the input resources.

Impact is to evaluate the possibility of the ripple effects.

Sustainability is to confirm the continuous maintainability.

Each of the above 5 items is to be evaluated, then the priority ranking is to be indicated according to the sum of points.

#### Matrix

The following is a summary of the features of evaluation result.

For the relevance, the aid programs of the more classrooms, Institute of Seismology and Institute of Technology, Bhuj, healthcare package project, received a high evaluation score.

For the effectiveness, the programs of the Institute of Seismology and healthcare package project received a high evaluation score.

For the efficiency, the programs of the education equipment, Institute of Seismology, Institute of Technology, Bhuj, healthcare package project received a high score.

For the impact from indirect ripple effects, the programs of the education equipment, Institute of Seismology, Institute of Technology, Bhuj, healthcare package project received a high score.

For the self-development and sustainability, the programs of the more classroom received a high score.

For the overall evaluation result, as shown in Table 8-6, the Institute of Seismology and healthcare package project are in the first highest scores and Engineering College is in the secondary highest, followed by the more classrooms.

In reality, the evaluation result will be different depending on what JICA programmes will be taken for the technical assistance and grant aid and also what periods such as the short, middle and long term will be applied to the programs pre-determined by the aid organizations.

Moreover, similarly the result will be different depending on the stands of the recipient country and/or the donor country.

#### **Suggestion to Assistance Continuity**

Based on Tables 8-5, 8-6 and the matrices, the priority-ranking matrix is to indicate the result of the analyses on the implementation of projects in various fields, the evaluations of studies for before, during and after the implementation and also the effects of overall studies for social development.

As the high technology education aid is found as a new item in those studies as highlighted in the priority ranking, it calls for the expansion of the original aid objectives, the background of such will be mentioned.

While India has made various efforts to break through the economic crisis of Asia, historically the high education system of India is mainly the general education course, and according to Dr. Alexander, 80% of students are in such non-special general education courses and of the rest 5.3% are in technical, 4.9% in pharmacy, 3.4% in education, 2.3% in agriculture and 1.1% in dairy.

For the so-called Research and Development, only 0.27% is engaged in this, and this is a small rate in comparison with that of the developed countries.

The above matter is due to the dated education program of India, and this is a major reason why the economy of India has been hovering around, while other Asian countries have been through the crisis within a few years.

As mentioned above, the technical education is a crucial subject in India, thus this Project from Japan,

which has achieved great success in that field and has kept providing aid to India, will be a great asset to India.

For the primary education, the aid in this field as a social contribution, to say nothing of the fact that the improvement of the poor educational environment is the most urgent subject to the regional society, should be implemented by living together with people, considering the village structure in view of the cultural anthropology and its reflection, the village structure of community space and establishing the ideal village structure with the cooperation with people. Nevertheless, this recommended procedure does not fit the nature of urgent aid, technical assistance and/or grant.

For the healthcare field, all the items included in the package fit well with the nature of Japan's aid policy though further clarification of each item is needed for realization of the package.

For the high technology field, as previously repeated, it is suitable for the object of aid but needs many studies as it is more for the middle or long-term aid than the short term aid.

However, because the campus area of Institute of Technology, Bhuj is large enough, it is not difficult to allocate the site and there is enough area for the Institute of Seismology.

Moreover, the functional linking cooperation with the Vocational Training Center can be expected because they are located nearby.

While the precondition of the priority-ranking matrix is explained above, the important preconditions of various determinations for the aid, i.e. the sector, method, duration, budget, etc., have not been established.

Upon such establishment of the preconditions, the evaluation for the establishment of the priority ranking has to be conducted.

This report is to be the basic information for such establishment of preconditions.

Table 8-6 shows a summary of the overall proposals of the aid.

It shows the matters to be discussed, such as the State budget, project scale profile, project duration, completion time, method of aid and priority ranking in each field, and the evaluated priority ranking of the report.

Table-8-6 Items of the Rebuilding Plan

| No    | Institution   | Cost in Rs. crores | Area in<br>ha. | Periodical<br>Term | Open | Program   | Priority<br>in each<br>sector | Priority<br>in all<br>sector |
|-------|---|--------------------|----------------|--------------------|------|-----------|-------------------------------|------------------------------|
| Prima | ry educational Sector   |                    |                | •                  |      | •         |                               |                              |
| 1     | Equipment/Material Supply for the Project and others  | 01.0               | 0.18           | Short              | 2001 | Support   | 1                             | 5                            |
| 2     | More Classrooms   | 01.0               | 0.18           | Short              | 2001 | Support   | 2                             | 3                            |
| Techn | ical Education Sector   |                    |                |                    |      | -1        |                               |                              |
| 3     | Institute of Seismology, Bhuj   | 26.4               | 1.56           | Medium             | 2003 | Pro Grant | 1                             | 1                            |
| 4     | Engineering College, Bhuj   | 39.7               | 5.44           | Long               | 2006 | Pro Grant | 2                             | 2                            |
| 5     | Vocational Training Centre, Bhuj  | 02.0               | 0.20           | Short              | 2002 | Support   | 3                             | 6                            |
| 6     | Pharmacy College, Lakhtar   | 04.6               | 5.40           | Long               | 2006 | Pro Grant | 4                             | 7                            |
| Basic | Healthcare Sector   |                    |                | 1                  | 1    | 1         |                               |                              |
| 7     | A Package Project  1) Mental Care and Rehabilitation Centre, Bhuj  2) Expansion of Anjar CHC  3) Regional Logistic Medical Store Centre, Bhuj  4) Six PHCs  5) Five Allopathic Dispensaries and three Sub Centres | TBD                | TBD            | Short              | 2002 | Support   | 1                             | 1                            |
| Comn  | nunity Training   | 1                  |                | 1                  | I    |           |                               | l                            |
| 8     | Knowledge Transfer via GSDMA  | TBD                | N/A            | Long               | N/A  | Tech      | 1                             | 4                            |

Pro: Project Type Technical Cooperation, Grant: Grant Aid Project, Support: Disaster Urgent Support, Tech: Technical Cooperation TBD: To Be Determined, N/A: Not Applicable

All sectors in the priority list are studied by using the Matrixes hereunder shown and will be subject to further discussions by the GOG/GOI and the GOJ.

## 1. Primary Education Sector

As shown in **Table-8-7**, **8**, **9**, the QRS project to the 5 primary schools with 35 classrooms extends a small share in the needed reconstruction of 6,974 collapsed classrooms.

**Project Design Matrix for the Primary Educational Facilities** 

|  |   | Important   |  |
|--|---|---|--|
| Verifiable Indicators Verification     |   | Assumptions   |  |
| Attainment Index                       | Resources of Index  | Unstable Factors  |  |
| S/W in M/M                             | Inception Report  | Affection to the effect   |  |
| <ol> <li>India 5 Year Plans</li> </ol> | 1. The GOI  | Human resources   |  |
| 2. The GOG Rehab. Package              | 2. The GOG  | Social infrastructure   |  |
| No53.                                  | 3. GSDMA  | <ol><li>Other disaster</li></ol>  |  |
|  | 4. WB/ADB   | 4. Scarcity   |  |
|  | 5. UN/UNDP  |   |  |
|  | 6. the GOJ Pre-studies  |   |  |
| Attainment Index                       | Resources of Index  | Uncertain Factors   |  |
| Inception Report                       | DPEP/GSDMA  | The GOG policy  |  |
| Discussion with the GOG                | 1.Letters   | Budget shortage   |  |
| 2. Site Survey                         | 2.Minuites of Discussion  | 2. Capacity   |  |
| <ol><li>DPEP Decision</li></ol>        | 3.Amend of S/W  | 3. Community support  |  |
| Output Index                           | Resources of Index  | Factors to be fixed   |  |
| Scope of Design                        | Fixed in the M/M  | Sustainability  |  |
| 1. From 60 to 35                       | 1.M/M with the GOG  | Maintenance budget  |  |
| <ol><li>In Kutch district</li></ol>    |   | <ol><li>Renewal budget</li></ol>  |  |
|  |   | <ol><li>Payment budget</li></ol>  |  |
| Input of the GOJ                       | External Factors  |   |  |
| Resources (man, money, and mater       | ial) for the activities   | To keep effective   |  |
| Equipment (IT)                         |   | Urban infrastructure  |  |
| <ol><li>Educational material</li></ol> |   | Social infrastructure   |  |
| <ol><li>IT re-training</li></ol>       |   |   |  |
|  |   |   |  |
| IT; Information Technology             |   |   |  |
| Input of the GOG                       | Precondition  |   |  |
| I                                      | es  | Start and re-start  |  |
|  |   | Counterpart committee   |  |
| **                                     |   | Counter Budget  |  |
|  |   |   |  |
| 0 11                                   |   |   |  |
| A S 1 2                                | Attainment Index Jow in M/M India 5 Year Plans The GOG Rehab. Package No53.  Attainment Index Inception Report Discussion with the GOG Site Survey DPEP Decision Dutput Index Goope of Design From 60 to 35 In Kutch district Input of the GOJ Resources (man, money, and mater Equipment (IT) Educational material IT re-training T; Information Technology Input of the GOG | Attainment Index  W in M/M  India 5 Year Plans  The GOG Rehab. Package No53.  Attainment Index  No53.  Attainment Index Inception Report  I. The GOG I. WB/ADB I. UN/UNDP I. The GOJ Pre-studies I. WB/ADB I. UN/UNDP I. The GOJ Pre-studies I. The GOJ |  |

As in the table above the overall goal of this Project for this sector is to assist the restoration of the pre-earthquake quantity and quality of the primary educational facilities in the affected areas.

The information released by GSDMA in the Weekly Report as of 01/02/2002 says 1,723 classrooms for the primary schools have been reconstructed out of 6,974 destroyed in all around Gujarat State. The overall goal has not yet been reached and is still faraway to get to.

As a means to rebuilding the devastated basic social infrastructure, the QRS project to the primary education is still significant in terms of humanitarian support for affected children, women and communities.

**Table-8-7** Five Implementing Views Matrix for the Primary Educational Facilities

| Views                            | Items                              | Evaluation  |  |
|----------------------------------|------------------------------------|---|--|
| Relevance                        |                                    |   |  |
| Adaptability to the needs of the | 1. Selection of objectives         | Right in terms of target and scope                            |  |
| GOG and Validity to the Grant    | 2. Objectives adaptability         | 2. Urgent needs   |  |
| by GOJ                           | 3. Consistency to the GOG policy   | 3. Directly in line with the GOG policy                       |  |
|                                  | 4. Consistency to GOJ policy       | 4. In accord with the urgent support policy                   |  |
|                                  | 5. Fairness to other sectors       | 5. Fair as reconstruction of social infrastructure            |  |
|                                  | 6. Transferable technology         | Earthquake-resistant design methodology                       |  |
| Effectiveness                    |                                    |   |  |
| Expected effect by the Project   | 1. Attained satisfactory effect    | 1. Expectable   |  |
|                                  | 2. Sole effect by the Project      | 2. The effect is to be comprehensive and multi-organizational |  |
|                                  | 3. Outer influences to the effect  | 3. No negative influences                                     |  |
| Efficiency                       |                                    |   |  |
| Input/output ratio Project       | 1. Balance of input/output         | Appropriate balance is to be achieved                         |  |
| effectiveness Negative and       | 2. Utilization of input resources  | 2. Fully utilized by the children, community and the GOG      |  |
| affirmative factors              | 3. Timing of Commitment            | 3. Just in time despite of slow start                         |  |
|                                  | 4. Quality/quantity                | 3. Minimum input for maximum output in urgent conditions      |  |
|                                  | appropriateness                    |   |  |
|                                  | 5. Alternatives possibility        | 5. No alternatives at that time                               |  |
|                                  | 6. Outer influences to the process | 6. Confusion on site adoption affected by other NGOs          |  |
|                                  | 7. Influences of pre-requisites    | 7. Capacity of local construction industries                  |  |
| Impact                           |                                    |   |  |
| Indirect impact Ripple effect    | 1. Overall goal                    | Partial contribution to the full restoration of               |  |
|                                  | 2. Impact to the goal              | earthquake-destruction  |  |
| Negative and affirmative         | 3. Outer influences to the process |   |  |
|                                  | 4. Unexpected factors              | 3. Too much damages to be well managed by the GOG             |  |
|                                  | 1) Affect to the policy            | 4. Not very much  |  |
|                                  | 2) Economic effect                 | Significance of JICA/GOJ urgent support is understood         |  |
|                                  | 3) Administrative/Jurisdiction     | 2) 100% support system of JICA is appreciated                 |  |
|                                  | 4) Technology break-through        | 3) The GOG/GSDMA initiatives are to be strengthened           |  |
|                                  | 5) Women, human rights,            | Seismic resistant permanent pre-fabrication structure         |  |
|                                  | poverty                            | 5) The Project will affect effectively to those issues        |  |
|                                  | 6) Environmental issues            | Negligible impact   |  |
|                                  |                                    |   |  |
| Sustainability                   |                                    |   |  |
| Succeeding effect                | 1. Continuity                      | 1. Expected   |  |
| -                                | 2. Affirmative & negative factors  | 2. Strategy wise affirmative and finance wise negative        |  |
| Negative and affirmative         | 1) Political back up               | Continuity is secured   |  |
| -                                | 2) Administrative/legal ability    | Shortage of human resources and budget                        |  |
|                                  | 3) Maintainability                 | 3) Maintainable   |  |
|                                  | 4) Socio-cultural barriers         | 4) Problems of scarcity and social structure                  |  |
|                                  | 5) Environmental problems          | 5) Town planning should manage                                |  |

**Table-8-8 Implementing Assessment Matrix on Primary Educational Facilities** 

| Items       | Subjects                     | Evaluation  |
|-------------|------------------------------|---|
| Achievement | 1. Input, quantity/quality   | 1. 5 schools and 35 classrooms                                    |
|             | 2. Output attainment         | 2. 1400 children a year village community meeting spaces          |
|             |                              | 3. 100% but still many need to be built                           |
|             | 4. Project objectives        | 4. Difficulty of complete reconstruction                          |
|             | 5. Goal attainment           |   |
| Process     | 1. Activities as planned     | Achieved as planned   |
|             | 2. Project Monitoring        | 2. No third party monitoring except GSDMA and UNDP                |
|             | 3. Counterpart formation     | 3. No steering committee issues but key personnel issues          |
|             | 4. Commitment of beneficiary | 4. Not directly but through the GOG/DPEP                          |
|             | 5. Ownership of recipient    | 5. Ministry of education and villages                             |
|             | organization                 |   |
|             | 6. Project implementing      | 6. Utilization of local consultants, institutions and contractors |
|             | methodology                  |   |

The Gujarat council of primary education released a report recently regarding the progress of school repair and reconstruction. According to the report, numerous NGOs and voluntary organizations have come forward to take up reconstruction of schools on their own as registered with the earthquake bureau at the State Education Department. 43 NGOs will bear 100% of the expenditure for

reconstruction of 1,803 classrooms while 25 NGOs will bear 50% of expenditure for reconstruction of 4,676 classrooms. The total number of adopted classrooms by NGOs is 6,479 which covers almost all of the 6,974 collapsed classrooms. The report also states the Government of Netherlands has already signed the final agreement to finance Rs. 172.88 crores (around 4.6 billion yen) in 7 districts including the Kutch district. The GOI will finance Rs. 95.45 crores and the GOG will finance 10.00 crores. The total amount of Rs. 278.33 crores falls short of Rs. 372.00 croress estimated by WB/ADB in their damage assessment report.

The Project Team has experienced some difficulties in finalizing the site to be adopted by its programme at the early stage of implementation due to confusion of the site selection. There were too many enthusiastic and energetic NGOs coming in to adopt schools for the GOG officials to smoothly allocate sites satisfactorily, resulting in NGOs butting into each other at the site. There was lack of information with regard to the size of school premises and the required numbers of classrooms that could be build in the premises as well.

In the note from DPEP in September 2001, the GOG expressed their needs of IT (Information Technology) equipment for the primary schools in the affected areas. 30,165 computers for the districts and municipality primary schools and 3,164 computers for 3,164 Cluster Resources Centres in the State are requested. At the Cluster Resources Centres training of teachers of nearby villages will be conducted.

Originally, permanent pre-fabricated classrooms only would be provided under the QRS project. However, it was intimated during a course of discussions that a group of classrooms only does not form a primary school and some other facilities to be integrated such as sanitary facilities, teachers' offices, laboratories, meeting rooms, boundary walls, computer facilities, etc. As a result of discussions, sanitary facilities and boundary walls were included in the QRS project.

In line with the context above, two (2) projects were proposed.

If only one project was to be selected for implementation, the one for 'more class rooms' will be preferable, as it will be able to make use of the experiences of the Project Team on all procedures in this country, this State and this district. The Project Team has also experienced some other difficulties during the implementation stage; such as other NGO's starting construction within the same premises or insisting that JICA support to move away; Village people demanding some layout changes and requesting more classrooms, etc. However most of these difficulties were overcome with the assistance of DDO, DPEO and DPEP.

#### 2. Basic Healthcare Sector

A 50 bed CHC in Anjar and a 14 bed maternity building of Mundra CHC will be built.

Table-8-9 Project Design Matrix for the Basic Healthcare Facilities

| Narrative                     | Objectively                                      | Means of                              | Important                               |  |
|-------------------------------|--|---------------------------------------|---|--|
| Summary                       | Verifiable Indicators                            | Verification                          | Assumptions                             |  |
| Overall Goal                  | Attainment Index                                 | Resources of Index                    | Unstable Factors                        |  |
| Indirect and long term        | S/W in M/M                                       | Inception Report                      | Affection to the effect                 |  |
| 1. Restoration of             | 1. Number of basic healthcare                    | 1. The GOI                            | Human resources                         |  |
| pre-earthquake quantity and   | facilities                                       | 2. The GOG                            | 2. Equipment supply                     |  |
| quality                       | 2. Number of beds                                | 3. GSDMA                              | 3. Social infrastructure                |  |
| 2. Optimization of basic      | <ol><li>Number of out patients.</li></ol>        | 4. WB/ADB                             | 4. Other disaster                       |  |
| healthcare facilities         |  | <ol><li>Published resources</li></ol> | 5. Scarcity                             |  |
| Project Purpose               | Attainment Index                                 | Resources of Index                    | Uncertain Factors                       |  |
| Target of the Project         | Inception Report                                 | The GOG/GSDMA                         | The GOG policy                          |  |
| Construction of 2 CHCs        | <ol> <li>Discussion with the GOG</li> </ol>      | 1. S/W of April 26, 2001              | Future budget shortage                  |  |
| 2. Equipment                  | 2. Site Survey                                   | 2. M/M of June 26, 2001               | 2. Human resources capacity             |  |
|                               | <ol><li>Commissioner/the GOG</li></ol>           | 3. M/D                                | 3. Community support                    |  |
|                               |  | 4. WHO                                |   |  |
|                               |  | 5. UNICEF                             |   |  |
|                               |  | 6. GSDMA                              |   |  |
| Outputs                       | Output Index                                     | Resources of Index                    | Factors to be fixed                     |  |
| Facilities and Services       | Scope of Design                                  | Fixed in the M/D                      | Sustainability                          |  |
| 1. Construction of 50 bed CHC | 1. Anjar out-patients will be                    | M/D the GOG                           | Maintenance budget                      |  |
| in Anjar                      | 500  |                                       | 2. Operation budget                     |  |
| 2. Construction of 14 bed CHC | 2. Mundra out-patients will                      |                                       | <ol><li>Payment budget</li></ol>        |  |
| maternity ward in Mundra      | be300  |                                       |   |  |
| Activities                    | Input of GOJ                                     |                                       | External Factors                        |  |
| Design and construction       | Resources (man, money, and ma                    | terial) for the activities            | To keep effective                       |  |
| Basic Design                  | <ol> <li>Dispatch of Project Team</li> </ol>     |                                       | Urban infrastructure                    |  |
| 2. Contract Document          | <ol><li>Implementation of the Project</li></ol>  | İ                                     | <ol><li>Social infrastructure</li></ol> |  |
| 3. Contract                   | Input of the GOG Precondition                    |                                       |   |  |
| 4. Construction Management    | Resources essential for the activ                | Start and re-start                    |   |  |
| 5. Completion                 | Site preparation                                 | Counterpart committee                 |   |  |
| 6. Handing over               | 2. Human resources arrangement 2. Counter Budget |                                       |   |  |
| 7. Follow-up                  | 3. Human resources training                      |                                       |   |  |
|                               | 4. Additional materials                          |                                       |   |  |
|                               | 5. Maintenance cost                              |                                       |   |  |
|                               | 6. Additional living quarters                    |                                       |   |  |
|                               |  |                                       |   |  |

Speedy reconstruction of the basic healthcare facilities at Anjar and Mundra was made possible by effectively and efficiently utilizing the urgent support programme of Japan.

The Project Team has not come across much difficulty in implementing the QRS project for the sector except the initial stage of obtaining a building permit. However, with the cooperation of GSDMA as well as the DH&FW, the permit was obtained just in time in order to complete within the scheduled period.

It is hoped that the result of the Project will be appreciated by the GOG/GOI, as well as by the respective communities. As a result of the successful implementation of the QRS project, further support to rebuild healthcare infrastructure mentioned in the Table-8-5 has been called for.

The weekly report of GSDMA dated 01/02/2002 states that a 281 bed district hospital and a 16 bed mental hospital in Bhuj, 45 Primary Health Centres, 181 Sub-centres, 13 Community Centres, 1,006

Anganwadis and many other structures were destroyed by the earthquake.

Thus, in view of the extent of damages in healthcare infrastructure, the total number of 64 beds being provided under the QRS project will have a substantial impact in the restoration of healthcare services in the earthquake affected areas.

**Table-8-10** Five Implementing Views Matrix for the Basic Healthcare Facilities

| Views                        | Items                              | Evaluation   |
|------------------------------|------------------------------------|--|
| Relevance                    |                                    |  |
| Adaptability to the needs of | 1. Selection of objectives         | Right in terms of target and scope                           |
| the GOG and                  | 2. Objectives adaptability         | 2. Very urgent needs   |
| Validity to the Grant by the | 3. Consistency to the GOG policy   | 3. Directly in line with the GOG policy                      |
| GOJ                          | 4. Consistency to GOJ policy       | 4. Accord to the urgent support policy                       |
|                              | 5. Fairness to other sectors       | 5. Fair as reconstruction of social infrastructure           |
|                              | 6. Transferable technology         | Earthquake-resistant design methodology                      |
| Effectiveness                |                                    |  |
| Expected effect by the       | 1. Attained satisfactory effect    | 1. Expectable  |
| project                      | 2. Sole effect by the project      | 2. The effect is to be comprehensive and significant         |
|                              | 3. Outer influences to the effect  | 3. No negative influences                                    |
| Efficiency                   |                                    |  |
| Input/output ratio           | 1. Balance of input/output         | Appropriate balance is to be achieved                        |
| Project effectiveness        | 2. Utilization of input resources  | 2. Perfectly utilized by the community and the GOG           |
| Negative and affirmative     | 3. Timing of Commitment            | 3. Just in time despite of slow start                        |
| factors                      | 4. Quality/quantity                | 4. Minimum input for maximum output in urgent conditions     |
|                              | appropriateness                    | 5. No alternatives at that time                              |
|                              | 5. Alternatives possibility        | No outer negative influences                                 |
|                              | 6. Outer influences to the process | 7. Capacity of local construction industries                 |
|                              | 7. Influences of pre-requisites    |  |
| Impact                       |                                    |  |
| Indirect impact              | 1. Overall goal                    | 1. Significant contribution to the damage of                 |
| Ripple effect                | 2. Impact to the goal              | earthquake-devastation                                       |
|                              | 3. Outer influences to the process | Very small portion but substantial and urgent                |
|                              | 4. Unexpected factors              | 3. Vast damages to increase the cost                         |
| Negative and affirmative     | 1) Affect to the policy            | 4. Almost affirmative  |
|                              | 2) Economic effect                 | Significance of JICA/GOJ urgent support is understood        |
|                              | 3) Administrative/Jurisdiction     | <ol><li>100% support system of JICA is appreciated</li></ol> |
|                              | 4) Technology break-through        | 3) The GOG/GSDMA initiatives are to be strengthened          |
|                              | 5) Women, human rights,            | Seismic resistant reinforced concrete framed structure       |
|                              | poverty                            | 5) The project will affect effectively to those problems     |
|                              | 6) Environmental issues            | Very small impact  |
| Sustainability               |                                    |  |
| Succeeding effect            | 1. Continuity                      | 1. Expected  |
|                              | 2. Affirmative & negative factors  | 2. Strategy wise affirmative and finance wise negative       |
|                              | 1) Political back up               | Continuity is secured  |
| Negative and                 | 2) Administrative/legal ability    | Shortage of human resources and budget                       |
| affirmative                  | 3) Maintainability                 | 3) Maintainable  |
|                              | 4) Socio-cultural barriers         | Problems of scarcity and social structure                    |
|                              | 5) Environmental problems          | 5) Town planning should manage                               |

 Table-8-11
 Implementation Assessment Matrix on Basic Healthcare Facilities

| Items       | Subjects  | Evaluation  |
|-------------|---|---|
| Achievement | <ol> <li>Input,quantity/quality</li> <li>Output attainment</li> <li>Project objectives</li> <li>Goal attainment</li> </ol>  | 2 CHCs and 64 beds     600 outpatients a day village community healthcare activity base     100% achieved but still many need to be built     Still there are many hospitals and CHCs destroyed and not reconstructed                                 |
| Process     | Activities as planned     Project Monitoring     Counterpart formation     Commitment of beneficiary     Ownership of recipient organization     Project implementing methodology | Achieved as planned     No third party monitoring except GSDMA and UNDP     No steering committee issues but key personnel issues     Not directly but through the GOG     The GOG     Utilization of local consultants, institutions and contractors |

Table-8-12 Project Study Matrix for the Technical Educational facilities

| Narrative                                    | Objectivity   | Means of                             | Important                                |
|--|---|--------------------------------------|--|
| Summary                                      | Verifiable Indicators                                   | Verification                         | Assumptions                              |
| Overall Goal                                 | Attainment Index  | Resources of Index                   | <b>Unstable Factors</b>                  |
| Indirect and long term                       | M/D (Part 5 Apendix-1)                                  | Inception Report                     | Affection to the effect                  |
| 5. Restoration of                            | 1. India 5 Year Plans                                   | 1. The GOI                           | Human resources                          |
| pre-earthquake quantity                      | 2. The GOG Rehab. Package                               | 2. The GOG                           | 2. Social infrastructure                 |
| and quality                                  | No53.   | 3. GSDMA                             | <ol><li>Other disaster</li></ol>         |
|  | <ol><li>Directorate of Technical</li></ol>              | 4. WB/ADB                            | 4. Scarcity                              |
|  | Education Overview                                      | 5. UN/UNDP                           |  |
|  |   | 6. The GOJ Pre-studies               |  |
| Project Purpose                              | Attainment Index  | Resources of Index                   | Uncertain Factors                        |
| Target of the Project                        | Inception Report  | M/D                                  | The GOG policy                           |
| 4. Construction of Technical                 | <ol> <li>Discussion with the GOG</li> </ol>             | 1. Letters                           | <ol> <li>Budget shortage</li> </ol>      |
| institutes in Bhuj                           | 2. Site Survey  | 2. Minutes of Discussion             | 2. Capacity of management                |
|  |   |                                      | 3. GOI understanding                     |
| Outputs                                      | Output Index  | Resources of Index                   | Factors to be fixed                      |
| Facilities and Services                      | Scope of Design   | Fixed in the M/M                     | Sustainability                           |
| <ol> <li>Bhuj engineering College</li> </ol> | 1. 2 schools; 35 classes                                | <ol> <li>M/D with the GOG</li> </ol> | <ol> <li>Maintenance budget</li> </ol>   |
| 2. Institute of Seismology                   | 2. In Kutch district                                    |                                      | <ol><li>Renewal budget</li></ol>         |
|  |   |                                      | <ol><li>Payment budget</li></ol>         |
|  |   |                                      | 4. Counter budget                        |
| Activities                                   | Input of GOJ  |                                      | External Factors                         |
| Design and construction                      | Resources (man, money, and material) for the activities |                                      | To keep effective                        |
| <ol> <li>Technical cooperation</li> </ol>    | Dispatch of Project Finding Mission                     |                                      | <ol> <li>Urban infrastructure</li> </ol> |
| project                                      | Dispatch of Study Team of Technical cooperation         |                                      | <ol><li>Social infrastructure</li></ol>  |
| 2. Preliminary Study                         | 3. Dispatch of Project Preliminary Study Team           |                                      |  |
| <ol><li>Basic design study</li></ol>         | 4. Dispatch of Basic Design Stud                        |                                      |  |
| 4. Construction                              |   |                                      |  |
| 5. Completion                                |   |                                      |  |
| 6. Handing over                              | Input of the GOG  |                                      | Precondition                             |
| 7. Follow-uo study                           | Resources essential for the activ                       |                                      |  |
| 1. Project proposal/steering co              |   |                                      | Start and re-start  1. The GOG request   |
|  | 2. Site preparation                                     |                                      | 2. The GOI agreement                     |
|  | 3. Counter budget                                       |                                      | 3. The GOI request                       |
|  | 4. Counterpart  |                                      | 4. The GOJ agreement                     |
|  | 5. Security of the GOJ Mission                          |                                      | 5. The GOJ budget                        |

#### 3. Technical Educational Sector

This sector was not originally included in the Project, however, as a part of the Rebuilding Plan, reconstruction of completely collapsed technical education institutes has been included in order to contribute to the human resources development of the earthquake affected areas.

The present situation and propositions of hopeful supports in the sector are described in the previous chapters.

The most preferable within the Rebuilding Plan for this sector is the Engineering College, Bhuj with the Institute of Seismology, Bhuj as a comprehensive pattern of plural projects.

This Project, which is an urgent support project, is a special version of the JICA programme not fitting in the categories of the medium nor long term project. Changing the version of the programmes may take time and complicated procedures may entail, but the GOG/GOI has expressed their strong needs of the assistance.

**Table-8-13** Five Pre-implementing Views Matrix for the Technical Educational Facilities

| Views                    | Items                               | Evaluation   |  |
|--------------------------|-------------------------------------|--|--|
| Relevance                |                                     |  |  |
| Adaptability to the      | 1. Selection of objectives          | Right in terms of target and scope prepared by the GOG         |  |
| needs of the GOG and     | 2. Objectives adaptability          | 2. Urgent needs no WB support and the GOG budget               |  |
| Validity to the Grant by | 3. Consistency to the GOG policy    | 3. Directly in line with the GOG policy for the technical      |  |
| GOJ                      | 4. Consistency to the GOJ policy    | education  |  |
|                          | 5. Fairness to other sectors        | 4. Accord to the urgent support policy for                     |  |
|                          | 6. Transferable technology          | earthquake-devastation   |  |
|                          |                                     | 5. Fair as reconstruction support of social infrastructure     |  |
|                          |                                     | 6. Earthquake-resistant design methodology and other hi-tech   |  |
| Effectiveness            |                                     | 1 0 0  |  |
| Expected effect by the   | 1. Attained satisfactory effect     | 1. Expectable  |  |
| project                  | 2. Sole effect by the project       | 2. The effect is to be comprehensive and significant           |  |
| r ·J···                  | 3. Outer influences to the effect   | 3. No negative influences but possible multi-national support  |  |
| Efficiency               |                                     |  |  |
| Input/output ratio       | 1. Balance of input/output          | Appropriate balance is to be achieved                          |  |
| Project effectiveness    | 2. Utilization of input resources   | 2. Perfectly utilized by the technical institutions of the GOG |  |
| Negative and affirmative | 3. Timing of Commitment             | 3. Just in time as urgently proposed                           |  |
| factors                  | 4. Quality/quantity appropriateness | Minimum input for maximum output in urgent conditions          |  |
|                          | 5. Alternatives possibility         | 5. S/W is appropriate  |  |
|                          | 6. Outer influences to the process  | 6. Confusion on site adoption by other NGOs                    |  |
|                          | 7. Influences of pre-requisites     | 7. Capacity of local construction industries                   |  |
| Impact                   | • •                                 | 1  |  |
| Indirect impact          | 1. Overall goal                     | Partial contribution to the full restoration of                |  |
| Ripple effect            | 2. Impact to the goal               | earthquake-destruction   |  |
|                          | 3. Outer influences to the process  | 2. Small portion, but substantial and speedy                   |  |
|                          | 4. Unexpected factors               | 3. Too much damages to be well managed by the GOG              |  |
| Negative and affirmative | 1) Affect to the policy             | 4. Not very much   |  |
|                          | 2) Economic effect                  | Significance of JICA/GOJ urgent support is understood          |  |
|                          | 3) Administrative/Jurisdiction      | 2) 100% support system of JICA is appreciated                  |  |
|                          | 4) Technology break-through         | 3) The GOG/GSDMA initiatives are to be strengthened            |  |
|                          | 5) Women, human rights, poverty     | Seismic resistant pre-cast framed structure                    |  |
|                          | 6) Environmental issues             | 5) The project will affect effectively to those problems       |  |
|                          |                                     | 6) Small impact  |  |
| Sustainability           |                                     | •  |  |
| Succeeding effect        | 1. Continuity                       | 1. Expected  |  |
|                          | 2. Affirmative & negative factors   | 2. Strategy wise affirmative and finance wise negative         |  |
|                          | 1) Political back up                | Continuity is secured  |  |
| Negative and             | 2) Administrative/legal ability     | Shortage of human resources and budget                         |  |
| affirmative              | 3) Maintainability                  | 3) Maintainable  |  |
|                          | 4) Socio-cultural barriers          | Problems of scarcity and social structure                      |  |
|                          | 5) Environmental problems           | 5) Town planning should manage                                 |  |

**Table-8-14** Pre-Implementing Items Matrix on Technical Educational Facilities

| Items       | Subjects                               | Evaluation  |
|-------------|--|---|
| Achievement | 1. Input, quantity/quality             | 1. 5 schools; 35 classrooms                                       |
|             | 2. Output attainment                   | 2. 1400 children a year; (40 x 35 = 1,400)                        |
|             |  | Village community spaces  |
|             | 3. Project objectives                  | 3. 100% completed, but still many need to be built                |
|             | 4. Goal attainment                     | 4. Difficulty of complete reconstruction of classrooms affected   |
| Process     | 1. Activities as planned               | Achieved as planned   |
|             | 2. Project Monitoring                  | No third party monitoring except GSDMA and UNDP                   |
|             | 3. Counterpart formation               | 3. No steering committee issues but key personnel issues          |
|             | 4. Commitment of beneficiary           | 4. Not directly but through the GOG                               |
|             | 5. Ownership of recipient organization | 5. Ministry of education  |
|             | 6. Project implementing methodology    | 6. Utilization of local consultants, institutions and contractors |

#### 8.4 Conclusion

## **Meaning of Study**

The managing director of the Toshi-Mirai (Progressive City) Development Organization, Mr. Mizuo Kishita commented in a seminar, based on his experience on the project in the Training Institute of Thailand by JICA, regarding the most desirable process of international aid project, that:

The counterpart team start saying that they will make their most endeavour on the project because it is "Our Project" while they initially say that they do cooperation to "Your Project."

In the initial stage of the Aid Project, due to the lack of understanding to the intention, the counterpart team normally just show their cooperative stance, i.e. the stance to lead "Your Project" to success.

However, in knowing our enthusiasm and capability to execute the project, they start having sincere willingness to cope with the job upon understanding the aim of the project as "My Project", viz. the job for themselves or their own country.

Nevertheless, the Aid Project should be meaningful for both countries and people eventually. Thus, it is desirable that the project becomes "The Work of Yours and Mine" (Our Project).

This Project is, as part of International Aid, a socio-development study and a Study on Urgent Development for Reconstruction Aid for Earthquake Disaster. In another words, this Project provides, under the title of social development study, both the physical aid and the analysis and study on the status of reconstruction of the disaster area, and this Project aims to be the evaluation of Our Project for Both Countries.

#### **Human Aid or Regional Reconstruction**

In view of the human resources development sector and the basic healthcare sector, which are identified as major areas for international aid objects of Japan, the physical aid objects are to be Primary Educational Facilities and Regional Healthcare Facilities. Both were seriously damaged and, for humanitarian reasons, the reconstructions of these items were urgent matters.

However, in the selection of items for the aid, the urgent rehabilitation of these essential facilities for sufferers could be merely the restoration of the past insufficient basis and it could not be the basic structure for future development of the suffered area.

Within such limited conditions, this Project is presenting the most possible model cases whereas there would be further proposals, which can have an intensive impact on the future development of the community or city. Among the reconstruction plans, such a proposal came out based on the

above-mentioned thoughts. It is expected that such a proposal of model case will be presented through the re-arrangement of basic conditions.

### **Participation or Presentation**

While the reconstruction of either a community or city should be basically executed in the manner of participation, the urgent aid program tends to be executed in the manner of presentation due to the time restriction.

In the case of participation manner, it is normally a long and hard process from the identification of problems to the achievement of the solution that requires unremitting and bilateral discussions in cooperation with the people of the community and the voluntary aids, and it has a similar nature to the activities of NGOs.

Moreover, in Kutch district of Gujarat State, there are many discriminated tribes and minority races, and there exists the distorted invisible constitution in the regional community or city.

There are also many problems of children and women and there exists certain peculiarities in their custom, therefore, in order to indicate the future of the community or city, the participation manner shall be concerned.

The State government recommended, for a method of regional community reconstruction, to establish the committee for regional development based on the principle of the participation manner. However, anyhow this should be discussed in conjunction with the aid methodology.

#### **Consideration on Decentralization of Authority**

Worldwide, decentralization has recently become a major factor to consider for international aid.

The physical aid of this Project such as for the primary educational and regional healthcare sectors are both under the State government management and it is advantageous in the process of the Project because the authorities in charge can be identified.

On the other hand, because the reconstruction of these sectors requires a definite initiative of the regional government, it causes less relation with the central government and it barely produces bilateral understanding between both countries.

Moreover, in the event that the request for the continuity of aid is raised by the regional government, i.e. the State government, such request might not always be part of the requests of the central government of India to Japan.

It is a matter of course that the central government, having 32 regional governments, faces the difficulty to make a priority order among the many requests for aid raised by each regional government in trouble.

The State government desires the aid to be given directly to the State, and further the authority of sector concerned prefers to receive the aid directly.

However, the principal of this Project is Japan and the discussion between two countries is the basic condition of agreement of the Project.

#### **Meaning of Unremitting Discussion**

In order to identify the objects of the aid for the reconstruction program, study on the time-factored items such as urgent aid, mid-term aid or long-term aid and the study on the aid methodological features such as urgent physical aid, socio-development including physical aid, grant, grant with technical cooperation or loan, are the preconditions of Japanese aid in future.

In the study, the internal guideline of the Japanese government is an important item, and the consensus of intention in the Indian government, in the Gujarat State, and between the country and the State is an essential item together with its declaration.

### **Epilogue**

This Project has achieved success which was more than that expected mainly because of the friendship, expectation and trust to Japan of the people of India, Gujarat State, Kutch district and each rural districts (Taluka) whoever are related to.

It is anticipated that the outcome of this Project will result effectively in the continuity of the friendship between Japan and India and be a milestone of further extension and development of the aid.

| Appendix |  |
|----------|--|
|          |  |

# Appendix

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Appendix-1 Minutes of Meeting and Summary of Discussions

### MINUTES OF MEETING

ON

### THE RECONSTRUCTION SUPPORT OF THE GUJARAT-EARTHQUAKE

### DISASTER IN THE DEVASTATED AREAS IN INDIA

AGREED UPON BETWEEN

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

14 AUGUST, 2002

Mr. Toshio ITO Team Leader Project Team Japan International

Cooperation Agency

Mr. S. G. MANKAD Principal Secretary Finance Department Government of Gujarat

Witness

Mr. Toru TAKE

Dy. Resident Representative

Japan International Cooperation Agency

India Office

### 1. INTRODUCTION

In accordance with the SCOPE OF WORK FOR THE RECONSTRUCITON THE GUJARAT-EARTHQUAKE DISASTER SUPPORT FOR DEVASTATED AREAS IN INDIA AGREED UPON AMONG GOVERNMENT OF GUJARAT, MINISTRY OF FINANCE, MINISTRY OF AGRICULTURE AND JAPAN INTERNATIONAL COOPERATION AGENCY dated 26 April, 2001 (hereinafter referred to as the "Project"), Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Project Team to carry out the Project from 6 June, 2001 to 28 May, 2002. The Team completed construction of two Community Health Centres and five primary schools and handed them over to the Government of Gujarat (hereinafter referred to as the "GOG") on 9 April and 24 May, 2002 respectively. As a part of the Project, the Team also produced a Draft Final Report describing assessment of the situation after the earthquake, the process of the quick reconstruction support project of CHCs and primary schools, and evaluation of the project including recommendation.

The Project Team explained the Draft Final Report, exchanged views and had a series of discussions on the Project with the officials concerned of the GOG.

This Minutes of Meeting has been prepared in consultation with the Commissionerate and Directorates concerned.

## 2. SUMMARY OF DISCUSSIONS

The contents of the Draft Final Report were basically accepted by the GOG. The list of possible future supports for the three sectors, Primary Education, Healthcare and Technical Education sectors, were reviewed, revised and another item for possible cooperation was introduced reflecting the present situation. The following points were confirmed by both parties.

## (1) Primary Education Sector

- 1) Item No. 1, Equipment/Materials supply for the Project and Others, was described in detail as follows.
  - ① I.T. equipment (Computer): 5 Nos./School
  - ② Equipment for Physical Education (extra curriculum for child friendly activities)
  - ③ Drinking water facilities
  - ① Teachers' room which also be used as a library, teaching material store, etc.
  - (5) Low height desks for children (sufficient height for sitting position on the

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floor)

- 2) The needs for item No. 2, More Classrooms, was clarified and stressed strongly as a recent survey carried out to find out number of school age children in Kutch revealed that the number of classrooms indicated at the beginning of the Project was no longer relevant because the number of school age children was greater than DPEP's previous record.
- 3) Item No. 3, Progressive Model of Primary School, could be replaced with the schools equipped with the equipment and facilities indicated in item No. 1 and thus the item No. 3 is to be deleted from the list.
- 4) Item No. 4, Teacher Retraining Centre, has been taken up by the DPEP and already in process of establishment. Thus the item No. 4 is to be deleted from the list.

### (2) Healthcare Sector

Previous list of possible future supports for the Healthcare sector has been replaced with a Package Project for Rehabilitation of Healthcare Sector in the District of Kutch. The items in the package are as follows.

- 1) Mental Care and Rehabilitation Centre at Bhuj (a part of Bhuj Mental Hospital)
  - (I) Halfway Home To accommodate 20 occupants(10 Male+10 Female) with utility equipments and hospital furniture
  - ② Shelter Rehabilitation Workshop To accommodate 30-40 patients, with equipments and appliances for workshop
- 2) Expansion of Anjar CHC
  - ① Construction of 15 bedded Orthopedic Ward
  - Construction of 10 bedded Rehabilitation & Physiotherapy Centre
  - Epuipments and Instruments for Rehabilitation Physiotherapy Centre
  - Well equipped Mobile Van (Ambulance)
  - ⑤ Construction of additional 32 Staff Quarters (ClassIII:12, ClassIV:20)
- 3) Regional Logistic Medical Store Centre at Bhuj
- 4) 6 Primary Health Centres & 7 Staff Quarters in each PHC
  - ① Vanki (Mundra Taluka)
  - ② Nirona (Nakhatrana Taluka)
  - Bhimasar (Anjar Taluka)
  - (1) Mothara (Abdasa Taluka)

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- ⑤ Dhori (Bhuj Taluka)
- Adesar (Rapar Taluka)
- 5) 5 Allopathic Dispensaries with 5 Staff Quarters in each Dispensary and 3 Sub Centres

### <u>Dispensaries</u>

- (I) Dumara (Abdasa Taluka)
- ② Nudhatad (Abdasa Taluka)
- ③ Nani Tumbadi (Mundra Taluka)
- (4) Vadala (Mundra Taluka)
- ⑤ Rav (Rapar Taluka)

#### Sub Centres

- ① Bitta (Abdasa Taluka)
- ② Rampar (Abdasa Taluka)
- 3 Bondh 3 (Bhachau Taluka)

#### (3) Technical Education Sector

- Item No. 3, Polytechnic, Bhuj, shall be deleted as it has been taken by Kerala State Government.
- 2) The needs for other items in the list, 1) Institute of Seismology in Bhuj, 2) Engineering College in Bhuj, 4) Vocatinal Training Centre in Bhuj, and 5) Pharmacy College in Lakhtar, along with the needs for technical cooperation for knowledge/skill transfer were strongly expressed.
- (4) Exploration of possibilities of participating in long term disaster management capacity building of communities through community trainings in collaboration with GSDMA

It is understood that the intentions of the Government of Gujarat must officially be conveyed to the Government of Japan by the Government of India for realization of any of above mentioned possible future supports.

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ON

# PRIMARY EDUCATION SECTOR REBUILDING PLAN

OF

# THE RECONSTRUCTION SUPPORT OF THE GUJARAT-EARTHQUAKE

# DISASTER IN THE DEVASTATED AREAS IN INDIA

AGREED UPON BETWEEN

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

9 AUGUST, 2002

Mr. Toshio ITÓ Team Leader

Project Team

Japan International Cooperation Agency

Mr. J. P. Gupta

State Project Director

District Primary Education Programme

Government of Gujarat

### 1. INTRODUCTION

In accordance with the SCOPE OF WORK FOR THE RECONSTRUCITON SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA AGREED UPON AMONG GOVERNMENT OF GUJARAT, MINISTRY OF FINANCE, MINISTRY OF AGRICULTURE AND JAPAN INTERNATIONAL COOPERATION AGENCY dated 26 April, 2001 (hereinafter referred to as the "Project"), Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Project Team to carry out the Project from 6 June, 2001 to 29 May, 2002. The Team completed construction of two Community Health Centres and five primary schools and handed them over to the Government of Gujarat (hereinafter referred to as the "GOG") on 9 April and 24 May, 2002 respectively. As a part of the Project, the Team also produced a Draft Final Report describing assessment of the situation after the earthquake, the process of the quick reconstruction support project of CHCs and primary schools, and evaluation of the Project including recommendation.

The Project Team explained the Draft Final Report, exchanged views and had a series of discussions on the Project with the officials concerned of the GOG.

This Summary of Discussions summarizes the discussions regarding the Primary Education Sector Rebuilding Plan of the Draft Final Report with revisions being made to the "SUMMARY OF DISCUSSIONS OF THE PREPARATION OF REBUILDING PLAN IN THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA" agreed and signed by and between the State Project Director of District Primary Education Programme (hereinafter referred to as the "DPEP") and the Project Team Leader on 28 September, 2001.

## 2. SUMMARY OF DISCUSSIONS

The contents of the Draft Final Report were basically accepted by the DPEP. The list of possible future supports for the Primary Education Sector were reviewed and revised reflecting the present situation of the State. The following points were confirmed by both parties.

- 1) Item No. 1, Equipment/Materials supply for the Project and Others, was described in detail as follows.
  - ① I.T. equipment (Computer): 5 Nos./School
  - (2) Equipment for Physical Education (extra curriculum for child friendly activities)
  - ③ Drinking water facilities
  - ① Teachers' room which also be used as a library, teaching material store, etc.
  - (5) Low height desks for children (sufficient height for sitting position on the floor)



- 2) The needs for item No. 2, More Classrooms, was clarified and stressed strongly as a recent survey carried out to find out number of school age children in Kutch revealed that the number of classrooms indicated at the beginning of the Project was no longer relevant and the number of school age children were greater than DPEP's previous record.
- 3) Item No. 3, Progressive Model of Primary School, could be replaced with the schools equipped with the equipment and facilities indicated in item No. 1 and thus the item No. 3 is to be deleted from the list.
- 4) Item No. 4, Teacher Retraining Centre, has been taken up by the DPEP and already in process of establishment. Thus the item No. 4 is to be deleted from the list.

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ON

### HEALTHCARE SECTOR REBUILDING PLAN

OF

# THE RECONSTRUCTION SUPPORT OF THE GUJARAT-EARTHQUAKE

### DISASTER IN THE DEVASTATED AREAS IN INDIA

AGREED UPON BETWEEN

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

9 AUGUST, 2002

Mr. Toshio IT@ Team Leader

Project Team

Japan International Cooperation Agency Dr. V. T. Jawah

Deputy Director

Commissionerate of Health,

Medical Services & Medical Education

Government of Gujarat

### 1. INTRODUCTION

In accordance with the SCOPE OF WORK FOR THE RECONSTRUCITON SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA AGREED UPON AMONG GOVERNMENT OF GUJARAT, MINISTRY OF FINANCE, MINISTRY OF AGRICULTURE AND JAPAN INTERNATIONAL COOPERATION AGENCY dated 26 April, 2001 (hereinafter referred to as the "Project"), Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Project Team to carry out the Project from 6 June, 2001 to 29 May, 2002. The Team completed construction of two Community Health Centres and five primary schools and handed them over to the Government of Gujarat (hereinafter referred to as the "GOG") on 9 April and 24 May, 2002 respectively. As a part of the Project, the Team also produced a Draft Final Report describing assessment of the situation after the earthquake, the process of the quick reconstruction support project of CHCs and primary schools, and evaluation of the Project including recommendation.

The Project Team explained the Draft Final Report, exchanged views and had a series of discussions on the Project with the officials concerned of the GOG.

This Summary of Discussions summarizes the discussions regarding the Healthcare Sector Rebuilding Plan of the Draft Final Report with revisions being made to the "SUMMARY OF DISCUSSIONS OF THE PREPARATION OF REBUILDING PLAN IN THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA" agreed and signed by and between the Project Director of Commissionarate of Health, Medical Services & Medical Education (hereinafter referred to as the "CH,MS&ME") and the Project Team Leader on 28 September, 2001.

### 2. SUMMARY OF DISCUSSIONS

The contents of the Draft Final Report were basically accepted by the CH,MS&ME. The list of possible future supports for the Basic Healthcare Sector were reviewed and revised reflecting the present situation of the State based on a recent survey carried out by the CH,MS&ME. The following points were confirmed by both parties.

The list of potential projects indicated in the Summary of Discussions is no longer adequate and shall be replaced by the following project that is urgently required for trauma/mental healthcare as well as physical healthcare to rehabilitate the mental/physical health of people of Gujarat after the devastation. The CH,MS&ME, therefore, proposes a Package Project for Rehabilitation of Healthcare Sector in the District of Kutch to tackle the present urgent needs in the State. The items of the

## package are as follows.

| No. | Item   | Time Frame |
|-----|--|------------|
| I   | Mental Care and Rehabilitation Centre at Bhuj (Bhuj Mental Hospital)  a) Halfway Home To accommodate 20 occupants(10 Male+10 Female) with utility equipments and hospital furniture b) Shelter Rehabilitation Workshop To accommodate 30-40 patients, with equipments and appliances for workshop                                    |            |
| 2   | Expansion of Anjar CHC a) Construction of 15 bedded Orthopedic Ward b) Construction of 10 bedded Rehabilitation & Physiotherapy Centre c) Equipments and Instruments for Rehabilitation Physiotherapy Centre d) Well equipped Mobile Van (Ambulance) e) Construction of additional 32 Staff Quarters (ClassIII:12, ClassIV:20)       |            |
| 3   | Regional Logistic Medical Store Centre at Bhuj   |            |
| 4   | 6 Primary Health Centres & 7 Staff Quarters in each PHC 1. Vanki (Mundra Taluka) 2. Nirona (Nakhatrana Taluka) 3. Bhimasar (Anjar Taluka) 4. Mothara (Abdasa Taluka) 5. Dhori (Bhuj Taluka) 6. Adesar (Rapar Taluka)   | Urgent     |
| 5   | 5 Allopathic Dispensaries with 5 Staff Quarters in each Dispensary and 3 Sub Centres Dispensaries 1. Domara (Abdasa Taluka) 2. Nudhatad (Abdasa Taluka) 3. Nani Tumbadi (Mundra Taluka) 4. Vadala (Mundra Taluka) 5. Rav (Rapar Taluka) Sub Centres 1. Bitta (Abdasa Taluka) 2. Rampar (Abdasa Taluka) 3. Bondh — 3 (Bhachau Taluka) |            |





ON

# TECHNICAL EDUCATION SECTOR REBUILDING PLAN

OF

# THE RECONSTRUCTION SUPPORT OF THE GUJARAT-EARTHQUAKE

# DISASTER IN THE DEVASTATED AREAS IN INDIA

AGREED UPON BETWEEN

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

9 AUGUST, 2002

Mr. Toshio ITC Team Leader Project Team

Japan International Cooperation Agency

Mr. D.T. Kapadia

Director

Directorate of Technical Education

Government of Gujarat

### 1. INTRODUCTION

In accordance with the SCOPE OF WORK FOR THE RECONSTRUCITON SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA AGREED UPON AMONG GOVERNMENT OF GUJARAT, MINISTRY OF FINANCE, MINISTRY OF AGRICULTURE AND JAPAN INTERNATIONAL COOPERATION AGENCY dated 26 April, 2001 (hereinafter referred to as the "Project"), Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Project Team to carry out the Project from 6 June, 2001 to 29 May, 2002. The Team completed construction of two Community Health Centres and five primary schools and handed them over to the Government of Gujarat (hereinafter referred to as the "GOG") on 9 April and 24 May, 2002 respectively. As a part of the Project, the Team also produced a Draft Final Report describing assessment of the situation after the earthquake, the process of the quick reconstruction support project of CHCs and primary schools, and evaluation of the Project including recommendation.

The Project Team explained the Draft Final Report, exchanged views and had a series of discussions on the Project with the officials concerned of the GOG.

This Summary of Discussions summarizes the discussions regarding the Technical Education Sector Rebuilding Plan of the Draft Final Report with revisions being made to the "SUMMARY OF DISCUSSIONS OF THE PREPARATION OF REBUILDING PLAN IN THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA" agreed and signed by and between the Director of Directorate of Technical Education (hereinafter referred to as the "DTE") and the Project Team Leader on 28 September, 2001.

### 2. SUMMARY OF DISCUSSIONS

The contents of the Draft Final Report were basically accepted by the DTE. The list of possible future supports for the Technical Education Sector were reviewed and revised reflecting the present situation of the State. The following points were confirmed by both parties.

- 1) Item No. 3, Polytechnic, Bhuj, shall be deleted as it has been taken by Kerala State Government.
- 2) The needs for other items in the list, 1) Institute of Seismology in Bhuj, 2) Engineering College in Bhuj, 4) Vocatinal Training Centre in Bhuj, and 5) Pharmacy College in Lakhtar, along with the needs for project type cooperation for technical knowledge/skill transfer were strongly expressed.





OF

THE PREPARATION OF REBUILDING PLAN
IN THE RECONSTRUCTION SUPPORT
FOR THE GUJARAT-EARTHQUAKE DISASTER
IN THE DEVASTATED AREAS IN INDIA

**BETWEEN** 

FINANCE DEPARTMENT

OF

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY PROJECT TEAM FOR

THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER

IN

THE DEVASTATED AREAS IN INDIA

1 OCTOBER, 2001

Mr. TOSHIO ITO

Ms. S. APARNA, IAS

Mr. ANIL MUKIM

JOINT SECRETARY,

SECRETARY,

(ECONOMIC AFFAIRS)

LEADER,

PROJECT TEAM,

JAPAN INTERNATIONAL

COOPERATION AGENCY

FINANCE DEPARTMENT

GOVERNMENT OF GUJARAT

According to the Scope of Works for the Reconstruction Support for the Gujarat-earthquake Disaster in the Affected Areas in India, the JiCA project team for the Project submitted an inception report to GOG/GOI which has been basically agreed upon. The Team has been implementing the reconstruction of 5 schools and 2 CHCs and simultaneously studying the rebuilding plan for educational and heathcare facilities ( Target year 2003) in cooperation with concerned officers.

The Project will be finalized before the end of March 2002 with the submission of a final report to describe all about the project implementation in line with the Scope of Works.

As mentioned in the Scope of Works, as a part of the Works, the Team will submit an interim report explaining the process of the reconstruction works and what has been studied to date and the potential future rebuilding plans will have to be reported as well in this Interim report.

The Team has been striving to formulate the plan and has had meetings several times with concerned officers in order to find the needs and possibility for the potential projects to be assisted by the JICA programmes.

This summary of discussions has been prepared in consultation with the Commissionerate and Directorates concerned.

- I. INTRODUCTION
- II. SUMMARY OF DISCUSSIONS
- III. ANNEX

#### I. INTRODUCTION

As a preparatory study for the further Reconstruction Support for the Gujarat-Earthquake Disaster in the Devastated Areas in India the Team has been studying possibilities of the further supports from JICA for the devastated basic educational and healthcare facilities. The Team has been implementing the reconstruction of 2 CHCs and 5 schools in Kutch District. The CHCs and schools are now under construction, all in accordance with the implementing programme in the Inception Report.

The concerned officers and the Team have discussed about the needs of further JICA support many times at the meetings for the reconstruction of the CHCs and schools.

The following are the summary of the discussions.

#### II. SUMMARY OF DISCUSSION

There are three sectors for the study of possible future supports:

Primary Education Sector

**Basic Healthcare Sector** 

Technical Education Sector

Basically the assistance for the technical education sector is included in the education sector in the JICA programmes.

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The Directorates and the Commissionerate have been making their utmost effort to help implement the reconstruction projects utilizing the help of NGOs and WB/ADB loan or GOG/GOI budget. However on account of the financial difficulties of GOG/GOI the Directorates and Commissionerate have come to recognize the needs to make use of JICA programmes for realization of its target to completely restore the basic educational and healthcare infrastructures until 2003 year.

The Secretary of the Finance Department recognizes the potential projects to be studied as follows.

The projects appear according to the priorities which were decided in consultation with the concerned sectors in GOG.

#### 1. Basic Educational Sector

| No. | Project   | Cost in    | Areas<br>In ha | Periodical<br>Term | Completion | Program       |
|-----|---|------------|----------------|--------------------|------------|---------------|
| 1   | Equipment/Materials supply for the Project and others | Rs, crores | 0.18           | Short              | 2001       | Support       |
| 2   | More classrooms                                       | 1.0        | 0.18           | Short              | 2001       | Support       |
| 3   | Progressive Model of<br>Primary School                | 2.0        | 0.15           | Medium             | 2003       | Grant         |
| 4   | Teacher Retraining Centre                             | 4.0        | 0.50           | Long               | 2006       | Grant<br>Pro. |

Pro.: Project Type Technical Cooperation Grant: Grant Aid Project Support: Disaster Urgent Support

#### 2. Basic Healthcare Sector

| No. | Project           | Cost in    | Areas | Periodical | Completion | Program |
|-----|-------------------|------------|-------|------------|------------|---------|
|     |                   | Rs. crores | In ha | Term       |            |         |
| 1   | More CHC          | 4.0        | 0.28  | Short      | 2002       | Support |
| 2   | CHC, Anjar        | 4.0        | 0.28  | Medium     | 2003       | Grant   |
|     | Expansion Project |            |       |            |            |         |
| 3   | General Hospital  | 10.0       | 0.56  | Long       | 2006       | Pro.    |
|     | Mandvi            |            |       |            |            | Grant   |

Pro.: Project Type Technical Cooperation Grant: Grant Aid Project Support: Disaster Urgent Support



### 3. Technical Education Sector

| No. | Institution          | Cost in    | Area in | Periodical | Completion | Program |
|-----|----------------------|------------|---------|------------|------------|---------|
|     |                      | Rs. crores | ha.     | Term       |            |         |
| 1   | Institute of         | 26,4       | 1.56    | Medium     | 2003       | Pro.    |
|     | Scismology, Bhuj     |            |         |            |            | Grant   |
| 2   | Engineering Collage, | 39.7       | 5.44    | Long       | 2006       | Pro.    |
|     | Bhuj                 |            |         |            |            | Grant   |
| 3   | Polytechnic, Bhuj    | 23.6       | 2.97    | Medium     | 2003       | Support |
| 4   | Vocational Training  | 02.0       | 0,20    | Short      | 2002       | Support |
|     | Centre, Bhuj         |            | •       |            |            |         |
| 5   | Pharmacy Collage,    | 04,6       | 5.40    | Long       | 2006       | Pro.    |
|     | Lakhtar              |            |         |            |            | Grant   |

Pro.: Project Type Technical Cooperation Grant: Grant Aid Project Support: Disaster Urgent Support

There may well be three patterns in JICA support such as series base cooperation, parallel base cooperation and comprehensive base cooperation to cope with the needs to be supported as much projects as possible.

It should be understood that, at this stage, the scope of works and terms of reference have not been fixed yet so that every items, especially the estimation of the direct cost of each programme in the tables above, are approximate and uncertain figures.

It should also be understood that every project and its scope of works are subject to further discussions and study by both GOG/GOI and GOJ whether to be adopted as a JICA assistance programme by making use of this report and the final report of the project.



#### III. ANNEX

A part of draft interim report:

Implementing Procedures of JICA Assistance Programme

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**OF** 

THE PREPARATION OF REBUILDING PLAN
IN THE RECONSTRUCTION SUPPORT
FOR THE GUJARAT-EARTHQUAKE DISASTER
IN THE DEVASTATED AREAS IN INDIA
AGREED UPON AMONG
STATE PROJECT DIRECTOR,
DISTRICT PRIMARY EDUCATION PROGRAMME

OF.

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY PROJECT TEAM FOR

THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER

IN

THE DEVASTATED AREAS IN INDIA

28 SEPTEMBER, 2001

Mr. TOSHIO ITO

LEADER,

PROJECT TEAM,

JAPAN INTERNATIONAL

COOPERATION AGENCY

A.P. JOSHI

STATE PROJECT DIRECTOR,

DISTRICT PRIMARY EDUCATION PROGRAMME

GOVERNMENT OF GUJARAT

According to the Scope of Works for the Reconstruction Support for the Gujarat-earthquake Disaster in the Affected Areas in India, a JICA project team for the project submitted a inception report to GOG/GOI which has been basically agreed upon, the team has been implementing the reconstruction of 5 schools and 2 hospitals and simultaneously studying the rebuilding plan for educational and heath facilities (target year 2003) in cooperation with very enthusiastic and capable officials concerned

The Project will be finalized before the end of March 2002 with the submission of a final report to describe all about the project implementation in line with the Scope of Works.

As in the Scope of Works, as a part of Works, the team will submit an interim report to explain how the implementation is going on and what has been studied so far and so on. In the interim report the rebuilding plan will have to be reported as well

The team has been striving to formulate the plan and has had meetings several times with officials concerned in order to assess the needs and possibility for the potential projects to be hopefully assisted by the JICA programmes.

This summary of discussions summarizes major points of discussions in the meetings to date between officials concerned and the project team with clauses as follows:

#### I. INTRODUCTION

### II. SUMMARY OF DISCUSSIONS

#### III. ANNEX

### I. INTRODUCTION

As a case study for the further Reconstruction Support for the Gujarat-Earthquake Disaster in the Devastated Areas in India the team has been studying the possibility of the further support from JICA for the devastated primary education facilities.

The team has been implementing 5 schools with 35 classrooms in Kutch District as reported in other section.

The classrooms are now under construction according to the implementing programme in the Inception Report.

The director and the team have discussed about the needs of further JICA support many times so far at the meetings for the reconstruction of the schools.

The followings are the summary of the discussions.



#### II. SUMMARY OF DISCUSSION

Almost 90 % of classrooms in Kutch District collapsed or damaged by the 2001 republic day quake. And the teaching in the area have been utilizing the tents or temporary facilities mainly provided by NGOs / international agencies. The DPEP (District Primary Education Programme) has been making its utmost effort to help implement the reconstruction project with utilizing the help of NGOs and WB/ADB loan or GOG/GOI budget. However on account of the financial difficulties of GOG/GOI the DPEP has come to recognize the needs to make use of JICA programmes for the realization of its target to completely restore the primary education infrastructure until 2003. The potential projects to be studied are figured out below in an order following the priority of needs in accordance with the summary of the meetings.

| No. | Project                | Cost in    | Areas | Periodical | Completion | Program |
|-----|------------------------|------------|-------|------------|------------|---------|
|     |                        | Rs. crores | In ba | Term       |            |         |
| 1   | Equipment/Materials    | 1.0        | 0.18  | Short      | 2001       | Support |
| :   | supply for the Project |            | }     |            |            |         |
|     | and others             |            |       |            |            |         |
| 2   | More                   | 1.0        | 0.18  | Short      | 2001       | Support |
|     | classrooms             |            |       |            |            |         |
| 3   | Progressive Model of   | 2.0        | 0.15  | Medium     | 2003       | Grant   |
|     | Primary School         |            |       |            |            |         |
| 4   | Teacher Retraining     | 4.0        | 0,50  | Long       | 2006       | Grant   |
|     | Centre                 |            |       |            |            | Pro.    |

Pro.: Project Type Technical Cooperation Grant: Grant Aid Project Support: Disaster Urgent Support

There may well be one-by-one base cooperation or parallel base cooperation as GOG would like to be supported as much projects as possible.

III. ANNEX

Apart of draft interim report

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OF

THE PREPARATION OF REBUILDING PLAN
IN THE RECONSTRUCTION SUPPORT
FOR THE GUJARAT-EARTHQUAKE DISASTER
IN THE DEVASTATED AREAS IN INDIA

AGREED UPON AMONG

PROJECT DIRECTOR,

COMMISSIONERATE OF HEALTH & MEDICAL SERVICE
AND MEDICAL EDUCATION

OF

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY PROJECT TEAM
FOR

THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER

IN

THE DEVASTATED AREAS IN INDIA

28 SEPTEMBER, 2001 Signed sur to Go Cijoval apports

Mr. TOSHIO ITO

LEADER,

PROJECT TEAM,

Dr. DHANANJAI BHATT

PROJECT DIRECTOR,

 $COMMISSIONARAT \ \ OF \ \ HEALTH \ \ \&$ 

MEDICAL SERVICE & MEDICAL EDUCATION,

GOVERNMENT OF GUJARAT

JAPAN INTERNATIONAL
COOPERATION AGENCY

According to the Scope of Works for the Reconstruction Support for the Gujarat-earthquake Disaster in the Affected Areas in India, a JICA project team for the project submitted a inception report to GOG/GOI which has been basically agreed upon, the team has been implementing the reconstruction of 5 schools and 2 hospitals and simultaneously studying the rebuilding plan for educational and heath facilities (target year 2003) in cooperation with very enthusiastic and capable officials concerned

The Project will be finalized before the end of March 2002 with the submission of a final report to describe all about the project implementation in line with the Scope of Works.

As in the Scope of Works, as a part of Works, the team will submit an interim report to explain how the implementation is going on and what has been studied so far and so on. In the interim report the rebuilding plan will have to be reported as well

The team has been striving to formulate the plan and has had meetings several times with officials concerned in order to assess the needs and possibility for the potential projects to be hopefully assisted by the JICA programmes.

This summary of discussions summarizes major points of discussions in the meetings to date between officials concerned and the project team with clauses as follows:

- I. INTRODUCTION
- II. SUMMARY OF DISCUSSIONS
- III. ANNEX

### I. INTRODUCTION

As a preparatory study for the further Reconstruction Support for the Gujarat-Earthquake Disaster in the Devastated Areas in India the team has been studying the possibility of the further support from JICA for the devastated basic healthcare facilities.

The team has been implementing 2 CHCs in Kutch District as reported in other section.

The CHCs are now under construction according to the implementing programme in the Inception Report.

The director and the team have discussed about the needs of further JICA support many times so far at the meetings for the reconstruction of the CHCs.

The followings are the summary of the discussions.

#### II. SUMMARY OF DISCUSSION

Almost all hospitals in kutch district, Approximately 17 % of the CHCs, 4 % of the PHCs and 3 % of the sub-centers in the State of Gujarat collapsed or damaged by the 2001 republic day quake. And the healthcare in the area have been utilizing the tents or temporary facilities mainly provided by NGOs / international agencies. The Commissionerate of Health, Medical Services and Medical Education has been



making its utmost effort to help implement the reconstruction project with utilizing the help of NGOs and WB/ADB loan or GOG/GOI budget. However on account of the financial difficulties of GOG/GOI the Commissionerate has come to recognize the needs to make use of JICA programmes for the realization of its target to completely restore the basic healthcare infrastructure until 2003. The potential projects to be studied are figured up below in an order following the priority of needs in accordance with the summary of the meetings:

| No. | Project           | Cost in    | Areas | Periodical | Completion | Program |
|-----|-------------------|------------|-------|------------|------------|---------|
|     |                   | Rs. crores | In ba | Term       |            |         |
| 3   | More CHC          | 4.0        | 0.28  | Short      | 2002       | Support |
| 2   | CHC, Anjar        | 4.0        | 0.28  | Medium     | 2003       | Grant   |
|     | Expansion Project |            |       |            | <u> </u>   |         |
| 3   | General Hospital  | 10.0       | 0.56  | Long       | 2006       | Pro.    |
|     | Mandvi            |            |       |            |            | Grant   |

Pro.: Project Type Technical Cooperation Grant: Grant Aid Project Support: Disaster Urgent Support

There may well be one-by-one base cooperation or parallel base cooperation as GOG would like to be supported as much projects as possible.

III. ANNEX

Apart of draft interim report:

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OF

THE PREPARATION OF REBUILDING PLAN
IN THE RECONSTRUCTION SUPPORT
FOR THE GUJARAT-EARTHQUAKE DISASTER
IN THE DEVASTATED AREAS IN INDIA
AGREED UPON AMONG
DIRECTORATE OF TECHNICAL EDUCATION,
DEPARTMENT OF HIGHER AND TECHNICAL EDUCATION

**OF** 

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY PROJECT TEAM FOR

THE RECONSTRUCTION SUPPORT FOR THE GUJARAT-EARTHQUAKE
DISASTER

IN

THE DEVASTATED AREAS IN INDIA

28 SEPTEMBER, 2001

Mr. TOSHIO ITO

LEADER,

PROJECT TEAM,

JAPAN INTERNATIONAL

COOPERATION AGENCY

Mr. D.T. KAPADIA

DIRECTOR

DIRECTORATE OF TECHNICAL EDUCATION,

GOVERNMENT OF GUJARAT

According to the Scope of Works for the Reconstruction Support for the Gujarat-earthquake Disaster in the Affected Areas in India, a JICA project team for the project submitted a inception report to GOG/GOI which has been basically agreed upon, and the team has been implementing the reconstruction of 5 schools and 2 hospitals and simultaneously studying the rebuilding plan for educational and heath facilities (target year 2003) in cooperation with very enthusiastic and capable officials concerned

The Project will be finalized before the end of March 2002 with the submission of a final report to describe all about the project implementation in line with the Scope of Works.

As in the Scope of Works, as a part of Works, the team will submit an interim report to explain how the implementation is going on and what has been studied so far and so on. In the interim report the rebuilding plan will have to be reported as well

The team has been striving to formulate the plan and has had meetings several times with officials concerned and carried out site survey for the assessment of the needs and possibility for the potential projects to be hopefully assisted by JICA programmes.

This summary of discussions summarizes major points of discussions in the meetings to date between officials concerned and the project team with clauses as follows:

- I . INTRODUCTION
- II. SUMMARY OF DISCUSSIONS
- III. ANNEX

#### I . INTRODUCTION

As a case for further Reconstruction Support for the Gujarat-Earthquake Disaster in the Devastated Areas in India, there will be a possibility of the support for the a project based on a proposal for the re-establishment of the whole technical education facilities in Bhuj having been prepared by the Directorate of Technical Education, Ministry of Education, GOG.

GSDMA introduced the project to the team when it visited the office on July 23<sup>rd</sup> and discussed about the future possibilities of JICA support, other than the team is now being in charge of, with the Director (Social and Community Development), V. Thiruppugaqzh. The Director arranged a meeting on July 24<sup>th</sup> with the officials in the Directorate of Technical Education after getting the understanding (permission) of Secretary to Government (Higher & Technical Education), Gauri Kumar, IAS. The meeting was held at the Secretary's office with Director, Directorate of Technical Education, D.T. Kapadia. The Director stressed the urgent need of some support to the reconstruction and rehabilitation of technical education facilities, Bhuj and informed the team the outline of the proposal with some other data. From the time the director and the team have had several discussions and the team carried out site survey and study of the comprehensive project so far in corporation with officials of the Directorate concerned. The followings are the summary of the discussions.



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#### II. SUMMARY OF DISCUSSION

The technical education facilities in Bhuj were completely destroyed by the 2001 republic day quake. And education and study have been utilizing the temporary facilities and other non-affected facilities in some other district. The directorate has been making its utmost effort to help implement the restoration project with WB/A DB loan or GOG/GOI budget. However on account of WB/ADB policy not to support the advancement of academic programmes but only to support restoration of urgent needs and the financial difficulties of GOG/GOI. The directorate has been coming to make use of JICA programmes for the realization of its proposal figured up below in an order following the priority of needs:

| No. | Institution                      | Cost in    | Area in | Periodical | Completion | Program |
|-----|----------------------------------|------------|---------|------------|------------|---------|
|     |                                  | Rs. crores | ha.     | Term       |            |         |
| 1.  | Institute of Seismology,         | 26.4       | 1.56    | Medium     | 2003       | Рто.    |
|     | Bhuj                             |            |         |            |            | Grant   |
| 2   | Engineering Collage,             | 39.7       | 5.44    | Long       | 2006       | Pro.    |
|     | Bhuj                             |            |         |            |            | Grant   |
| 3   | Polytechnic, Bhuj                | 23.6       | 2.97    | Medium     | 2003       | Support |
| 4   | Vocational Training Centre, Bhuj | 02.0       | 0.20    | Short      | 2002       | Support |
| 5   | Pharmacy Collage,                | 04.6       | 5,40    | Long       | 2006       | Pro.    |
|     | Lakhtar                          |            |         |            |            | Grant   |

Pro.: Project Type Technical Cooperation Grant: Grant Aid Project Support: Disaster Urgent Support

There may well be one-by-one base cooperation or parallel base cooperation as GOG would like to be supported as much projects as possible.

If the comprehensive educational complex be realized in one compound in Bhuj as one of the center of excellence in Gujarat including Institute of Seismology and Engineering Collage with tight relation to Polytechnic and Vocational Training Centre, technical educational environment of the affected area will be prominently advanced to help vitalize the industries with its enhanced manpower supply and sophisticated technology research/development. Pharmacy Collage, Lakhtar may be studied in future.

### III. ANNEX

Apart of draft interim report 6:314 4.6.3

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### MINUTES OF MEETING

ON

## THE RECONSTRUCTION SUPPORT OF THE GUJARAT-EARTHQUAKE

### DISASTER IN THE DEVASTATED AREAS IN INDIA

AGREED UPON BETWEEN

GOVERNMENT OF GUJARAT

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

26 JUNE, 2001

Mr. Toshio ITO

Team Leader

Project Team

Japan International

Cooperation Agency

Mr. S. . . G. MANKAD Principal Secretary

Finance Department Government of Gujarat

Witness

Mr. Osamu YAMADA

Leader

Advisory Team

Japan International

Cooperation Agency

### 1. INTRODUCTION

In accordance with the SCOPE OF WORK FOR THE RECONSTRUCITON SUPPORT FOR THE GUJARAT-EARTHQUAKE DISASTER IN THE DEVASTATED AREAS IN INDIA AGREED UPON AMONG GOVERNMENT OF GUJARAT, MINISTRY OF FINANCE, MINISTRY OF AGRICULTURE AND JAPAN INTERNATIONAL COOPERATION AGENCY dated 26 April, 2001, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Project Team to carry out the Project on 6 June, 2001.

The Project Team explained the Draft Inception Report and exchanged views and had a series of discussions on the Project with the officials concerned of the Government of Gujarat (hereinafter referred to as the "GOG").

This Minutes of Meeting summarizes the discussions.

### 2. SUMMARY OF DISCUSSIONS

The contents of the Draft Inception Report were basically accepted by the GOG. The following points were confirmed by both parties.

(1) Construction of classrooms for primary schools

The structure of the classrooms will be of permanent-prefabrication and the selected schools are as follows:

- 1) Bhadreshwar, Mundra
- 2) Bhadreshwar Kanya, Mundra
- 3) Dhamadka, Anjar
- 4) Mathak, Anjar
- 5) Loriya, Bhuj
- 6) Sumarasar, Bhuj

These schools have been selected in consultation with the Director of Primary Education, G.S., Gandhinagar.

Basic educational furniture will be provided in each classroom.

## (2) Construction of health facilities

- 1) Anjar Community Health Centre (CHC)
  - CHC main building with 50 beds
  - Staff quarters (six (6) class-I&II units, ten (10) class-III units)
  - · Medical equipment and medical furniture for an ordinary CHC
- 2) Mundra CHC
  - Maternity building

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The contents of the health facilities have been decided in consultation with the Commissioner of Health, Medical Services & Medical Education, Gandhinagar.

### 3. OTHER RELEVANT ISSUES

- (1) The GOG confirmed that all the project sites are owned by the GOG.
- (2) The total number of classrooms is expected to be maximum of 42 at present, however, the number should be finalized prior to the construction of the classrooms in order to avoid duplication of classrooms by other assistance.
- (3) The educational equipment will be such as teacher's desk and chair, cupboard, and blackboard.
- (4) The items of medical equipment to be provided in the Project will not include consumables and dispensable materials.

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Date: July 6, 2001

Mr. Avinash Joshi, IAS State Project Director DPEP Chief Coordinator for Working Group For the JICA Project Gandhinagar

#### Letter of Confirmation

Sub: Regarding the Reduction of the Construction Sites for the Reconstruction
Support for the Gujarat-Earthquake Disaster in the Devastated Areas in India

Dear Sir,

With reference to the letter issued by Dr. P.T. Pandya, District Primary Education Officer, Kachchh-Bhuj dated July 3, 2001 regarding the captioned matter, the circumstances of reduction of the construction sites are understandable, thus the JICA Project Team would like to confirm the schools for the Project as follows;

- 1) Bhadreshwar Kumar, Mundra
- 2) Bhadreshwar Kanya, Mundra
- 3) Mathak, Anjar

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- 4) Sumarasar Shekh, Bhui
- 5) Dhamadka, Anjar

A copy of Dr. Pandya's letter is attached herewith for your reference.

Yours faithfully,

Toshio Ito

Team Leader

JICA Project Team

Received and confirmed by

Avinash Joshi

State Project Director

DPEP

c.c.: Mr. S.G. Mankad, Principal Secretary, Finance Dept., GOG

Mr. R.K. Chaudhari, Director, Primary Education, G.S., Gandhinagar

Dr. P.T. Pandya, District Primary Education Officer, Kachchh-Bhuj

Mr. M.N. Bhad, Secretary, State Project Office, DPEP



Table-A-1-1 Chronicle of Japanese Assistance-1 Preparatory Phase

| Year/Month/date/<br>Time | Japanese Assistance to the restoration of the 2001 Gujarat<br>Earthquake in India | Other Movement/Activities<br>1 = 1 Million dollar |
|--------------------------|---|---|
| 1952                     | Treaty of Peace Between Japan and India   |   |
| 1956                     | Agreement Between Japan and India for Air Service                                 |   |
| 1956                     | Cultural Agreement Between Japan and India  |   |
| 1958                     | Agreement on Commerce Between Japan and India                                     |   |
| 1960                     | Agreement Between GOJ and GOI for avoidance of Double Taxation                    |   |
| 1985                     | Agreement Between GOJ & GOI on Cooperation in the Field of S&T                    | Japanese Economic Assistance                      |
| 1997                     | Indo Japan Symposium – Vision 2000 and Beyond                                     | 1997; Grant 7.00                                  |
|                          |   | Loan 1021.00                                      |
| 2001/01/26/12:30         | Gujarat Earthquake  |   |
| 2001/01/30-02/12         | Disaster Relief Team; Secretariat of Japan Disaster Relief Team – JDR             | Set up of Emergency Response Centre in            |
|                          | medical Team to provide emergency supplies  | Ministry of Agriculture                           |
| 2001/02/06-08            | Large-scale Disaster Relief Team; Japan Self-Defence Forces for                   | Indian Army and Navy Action                       |
|                          | carrying tents and blankets   | Japanese Emergency Assistance of                  |
| 2001/02/26-3/05          | JICA Mission for Background Survey for Earthquake Disaster                        | Total 32.00 including Relief goods and            |
|                          | Rehabilitation  | equipment with JDR                                |
|                          | - Devastation Survey, needs of assistance study                                   | 2001/02/12-02/17 Oyo Chishitsu                    |
|                          |   | (Private Soil Research Firm) Study                |
|                          | JICA Assistance to India at 2001/03   | Team  |
|                          | The study of Reproductive Health in Madhya Pradesh                                | Members of the Firm and                           |
|                          | Submission of Final Report on Expressway  | Risk Management Solution (US)                     |
|                          | Field Demonstration of New Technology   | Stanford University                               |
|                          | Medical Research Project: First Domestic Programme                                | Universitat Karlsruhe (Germany)                   |
|                          | Kalawati Saran Children Hospital; Expert  | Australian Geological Survey                      |
|                          | Agriculture Development Experts   | R. M. Software India Pvt. Ltd                     |
|                          | Experts on Highways, Port, WTO  | 2001/04/27 Japan Society of Civil                 |
|                          | Experts to Third Countries  | Engineers Study Team                              |
|                          | Training Program  | Tokyo Univ., Tokai Univ., Kyoto Univ.,            |
|                          | Youth Invitation Program  | and others  |
|                          | And others  | 2001/03/04-14 Japanese Ministry of                |
| 2001/04/08-05/05         | JICA Preparatory Survey Team for the Reconstruction Support for the               | Education and Science 2001 Special                |
|                          | Gujarat-Earthquake Disaster in the Devastated Areas in India                      | Study Project on Gujarat Earthquake               |
|                          | Leader; Osamu Yamada: Institute of International Cooperation, JICA                | Architectural Institute of Japan                  |
|                          | Project Planning; Tomohiro Ono: Social Development Study Dept.                    | Japan Society of Civil Engineers                  |
|                          | Construction Study; Shiro Sasaki: Sekkei Keikaku Inc.                             | Earthquake Disaster Mitigation                    |
|                          | - Preparatory Study on Devastation, Assistance Domain, Methods of                 | Centre of MOES, Japan                             |
|                          | Support, Scope of Works and others  |   |
|                          | 2001/04/26 M/M, S/W were agreed by GOG/GOI and GOJ                                |   |

GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat CHC; Community Health Centre P/D; Facilities Planning and Design C; Contracting CS; Construction Supervision Div.; Division AW; Day Nursing Centre DPEP; District Primary Education Programme COH&MS; Commissionerate of Health and Medical Services

NGO; Non-Governmental Organization Div; Division Dept; Department GOJ; Government of Japan GOI; Government of India GOG; Government of Gujarat S&T; Science and Technology JDR; Japan Disaster Relief Team MOES; Ministry of Education and Science JICA; Japan International Cooperation Agency WTO; World Trade Organization

Table-A-1-2 Chronicle of Japanese Assistance-2 Study

| Year / Month / Date / Time | Japanese Assistance to the restoration of the 2001 Gujarat Earthquake in India | Other Movement/Activities<br>1 = 1 Million dollar |  |
|----------------------------|--|---|--|
| 2001/06/01                 | The Reconstruction Support for the Gujarat-Earthquake Disaster in the          |   |  |
|                            | Devastated Areas in India Team was set up                                      |   |  |
|                            | Team Leader; Toshio Ito: Yamashita Sekkei Inc.: Rebuilding Plan                |   |  |
|                            | Team Member ;Motohiro Okada: Nihon Sekkei Inc: P/D (Health)                    |   |  |
|                            | ; Mineo Nagaoka: Yamashita Sekkei Inc.: P/D (School)                           |   |  |
|                            | ; Minoru Tanaka: Yamashita Sekkei Inc.: Structure P/D                          |   |  |
|                            | ; Mark Lenczner: Nihon Sekkei Inc.: Structure P/D, C                           |   |  |
|                            | ; Tomoyoshi Kato: Nihon Sekkei Inc.: Cost Estimation                           |   |  |
|                            | ; Yoshikazu Shimada: Yamashita Sekkei Inc.: P/D, CS                            |   |  |
|                            | - Analysis of Preparatory Study, Data assessment in Japan, and Inception       |   |  |
|                            | Report Preparation   |   |  |
| 2001/06/05                 | Work/Services inspection committee   |   |  |
|                            | - Izumi, Vice President, JICA: Hirai, Director of SDS Div., JICA:              |   |  |
|                            | Umenaga As. Director of SDS Div.:  |   |  |
|                            | Yamada, Senior Advisor, Institute for International Cooperation: Ono,          |   |  |
| 2001/06/06                 | SDS Div.:  | 2001/06/07 GOG send a letter of detailed          |  |
| 2001/06/07                 | - Study Plan, Study Methods, Scope of Works and Implementation                 | request for health facilities (CHCs)              |  |
|                            | Indication   |   |  |
| 2001/06/08                 | Study in India, Delhi; Embassy, JICA India, Mr. Mulay, Director of             |   |  |
|                            | Ministry of Finance  |   |  |
|                            | Delhi; Mr. Gilmartin of UNICEF   |   |  |
|                            | Gandhinagar; Kick-off Meeting with counterparts                                | 2001/06/12 News Report                            |  |
| 2001/06/09                 | - Mr. Joshi of DPEP, Dr. R. N. Shah of COH&MS, and others                      | Only130 of 350 NGOs listed were                   |  |
|                            | - Discussion on the Inception Report   | working   |  |
|                            | Bhuj; Site Survey: Kick-off Meeting with local counterparts                    | 2001/06/13 News Report                            |  |
|                            | - Discussion on Inception Report   | 9 dead in caste disturbance at Rapar              |  |
| 2001/06/12                 | - Schools' priority for the assistance   | 2001/06/15 School opened                          |  |
|                            | - CHCs' scope of works   | UNICEF Aid; 6,000 tents:                          |  |
|                            | Bhuj; Izumi, Vice President of JICA visited Bhuj: Meeting with the local       | 750classrooms: 189 AW                             |  |
| 2001/06/13                 | counterparts: Site Visit   | 2001/06/20 News Report                            |  |
|                            | - Amendment of the scope of works based on the recent request                  | A NGO, SOS, Declared to donated Bhuj              |  |
|                            | Gandhinagar; Izumi, Vice President, and the Team visited Mr. Mankad,           | Children's Village for 1,000 affected             |  |
| 2001/06/19                 | Secretary of Finance Department and Ms. Aparna, Joint Secretary, and           | children  |  |
|                            | agreed on the basic assistance figure  | 2001/06/22 News Report                            |  |
|                            | Gandhinagar; Discussion with Mr. Desai, Principal of Sansakr Bharati           | Aftershock, 4.5 Magnitude, in Kutch               |  |
|                            | - Schools to be supported identified   |   |  |
|                            | TIT  |   |  |

GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat CHC; Community Health Centre P / D; Facilities Planning and Design C; Contracting CS; Construction Supervision Div.; Division AW; Day Nursing Centre DPEP; District Primary Education Programme COH&MS; Commissionerate of Health and Medical Services NGO; Non-Governmental Organization Div; Division Dept; Department

**Table-A-1-3** Chronicle of Japanese Assistance-3 Contracts of Local Firms

| Year/Month/Date<br>/Time | Japanese Assistance to the restoration of the 2001 Gujarat<br>Earthquake in India | Other Movement/Activities<br>1 = 1 Million dollar |
|--------------------------|---|---|
| 2001/06/21-26            | Advisory Team dispatched  | 2001/06/25 News Report                            |
|                          | Leader; Osamu Yamada: Institute of International Cooperation, JICA                | Hingaria Quake-resistant Village                  |
|                          | Member; Satoshi Umenaga: Deputy Director of SDS Div., JICA                        | Plan was started:106 houses:                      |
|                          | - Present Situation Study: 06/23-24 Site Visit                                    | School: Library: Hospital                         |
|                          | - Assessment of on-going project  | 2001/06/26  |
|                          | - Confirmation of Healthcare assistance with COH&MS, 06/25                        | Ex-president of America, Clinton,                 |
|                          | - Agreed upon detailed scope of work with COH&MS, 06/26                           | was reported to have visited Bhuj                 |
| 2001/06/26               | Interim agreement of amended scope of works with Secretary of Finance             |   |
|                          | Dept. of GOG, 06/26   |   |
|                          | - 5 schools and 2 CHCs  |   |
|                          | - Toilets and boundary wall added in the scope                                    |   |
|                          | - Inception Report was basically accepted   |   |
| 2001/07/02               | Survey of Political, Economical Situation in Gujarat at Dalal Office              |   |
| 2001/07/02               | Site Survey Firm Contract was fixed as local partner                              | 2001/07/04 News Report                            |
|                          | - Through 3 firms tender, KCT Constancy Services was awarded                      | Russian Mission                                   |
| 2001/07/02               | Design and Supervision Firm was fixed as local Partner                            | 2001/07/09 News Report                            |
|                          | - Through 3 firms tender, Dalal Consultants and Engineers Ltd. was                | Minister of Education announced                   |
|                          | awarded   | Primary Education Rebuilding                      |
| 2001/07/17               | Attended Commissioner's Party of COH&MS for Medical                               | Plan  |
|                          | Reconstruction Support NGOs/Agencies  | ADB Mission reminded                              |
|                          | ·16 organizations, 12 attendants, lunch of local meal                             | rehabilitation Programme to be                    |
| 2001/07/24               | Started Hearing on Reconstruction Study GSDMA                                     | carried out in time                               |
|                          | - Meeting with Mr. Thiruppugazh, Director of GSDMA                                | 2001/07/10 News Report                            |
|                          | needs of support for Technical Education was discussed                            | Minister of Finance reported                      |
|                          | - Meetings with Mr. Josh, Project Director of DPEP, Dr. R. N. Shah, Jt.           | GOG Budget2001-02 with over                       |
|                          | Director of COH&MS and Mr. Kapadia, Director of Technical                         | burden of Rehabilitation                          |
|                          | Education on Query of Reconstruction for respective sectors                       | 2001/07/18 News Report                            |
| 2001/07/26               | Discussion with Bhachau city planning staff of Dalal Office                       | GSDMA Restructure Plan                            |
| 2001/08/16               | Contractor for Primary Education Facilities was fixed                             | 2001/07/20 News Report                            |
|                          | - Through 3 contractors Bid, Stresscrete India Ltd. Was awarded                   | WB Strategy might change from                     |
|                          | - Contracted Completion date 2002/03/25   | Loan to Grant                                     |
| 2001/08/25               | Meeting with Mr. Bimal H Patel, CEO of EPC, planner of Bhuj Urban                 | 2001/07/23 News Report                            |
|                          | Design  | 6298 classrooms collapsed: 1740                   |
|                          | - Visit to GSDMA; Meting for Rebuilding Plan                                      | of them were adopted by 40                        |
|                          | - Meeting with Director of Technical Education                                    | 100% support NGOs: 24 50%                         |
|                          | - Visit to Ahmedabad Polytechnic  | support NGOs: 800 under                           |
|                          |   | construction: 150 completed                       |
|                          |   |   |
|                          |   |   |

GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat CHC; Community Health Centre P / D; Facilities Planning and Design C; Contracting CS; Construction Supervision Div.; Division AW; Day Nursing Centre DPEP; District Primary Education Programme COH&MS; Commisionerate of Health and Medical Services NGO; Non-Governmental Organization Div; Division Dept; Department

Table-A-1-4 Chronicle of Japanese Assistance-4 Rebuilding Plan Study

| Year / Month / Date / Time | Japanese Assistance to the restoration of the 2001 Gujarat<br>Earthquake in India | Other Movement/Activities<br>1 = 1 Million dollar |
|----------------------------|---|---|
| 2001/08/31                 | Contractor for Community Health Centres was fixed                                 | 2001/08/20 News Report                            |
|                            | - Through 3 contractors Bid, Mitsui Kensetsu India Ltd. was awarded               | General Hospital, Bhuj will be                    |
|                            | - Contracted Completion date 2002/03/25   | completed at 2003 with a Central                  |
| 2001/09/05                 | Rebuilding Plan Meetings  | Relief Fund of 32 million dollar                  |
|                            | - Mr. Arvind Josh, Director of GSDMA, Mr. Josh, Director of DPEP,                 | 2001/08/21 News Report                            |
|                            | Dr. Bhatt, Director of COH&MS   | Netherlands' Grant will be 40                     |
| 2001/09/07                 | Rebuilding Plan Meeting   | million dollar: 13 had already                    |
|                            | - Mr. Kapadia, Director of Technical Education; Rebuilding Plan Report            | extended  |
|                            | of Technical Education by GOG   | 2001/09/11 TV Report                              |
| 2001/09/13-14              | Bhuj; Site Survey of Technical Education Facilities in Bhuj                       | WTC, New York, attacked                           |
|                            | - Engineering College, Polytechnic, Vocational Training Centre, Bhuj              |   |
|                            | - Meeting with the Rector and Ex-rector, Principal and Headmaster                 |   |
| 2001/09/25                 | Rebuilding Plan Meeting for preparatory discussion                                |   |
|                            | - Ms. Aparna, Joint Secretary of finance  |   |
|                            | - Mr. Josh of DPEP and Mr. Bhatt of COH&MS  |   |
| 2001/09/27                 | Contractor for Equipment of Anjar CHC was fixed                                   |   |
|                            | - Through 3 contractors Bid, Sun Surgical Ltd. was awarded                        |   |
|                            | - Contracted Completion date 2002/03/25   |   |
| 2001/09/28                 | Agreement on the Summary of Discussion of 3 Sectors' Rebuilding Plan              |   |
|                            | with the consent of Commissioners/Secretaries responsible for each                |   |
|                            | directorates  |   |
|                            | - Primary Education Sector; Signer: Mr. Josh, Director of DPEP                    |   |
|                            | - Healthcare Sector; Signer: Dr Bhatt of DOM&MS (Ms. Aparna joined)               |   |
|                            | - Technical Education Sector; Signer: Mr Kapadia, Director of Technical           |   |
|                            | Education   |   |
| 2001/10/01                 | Final Agreement on the Summary of Discussion with the GOG and the                 |   |
|                            | Project Team on the Rebuilding Plan for all sectors                               |   |
|                            | - Signed by Mr. Mukim, Secretary of Finance Dept.                                 |   |
|                            | - Attended by Ms. Aparna, Joint Secretary of Finance Dept.                        |   |
| 2001/10/04                 | Report to Embassy of Japan, India and JICA India Office                           |   |
| 2001/10/06                 | Study, Planning and Design staff left for Japan                                   |   |
|                            | - A supervision staff is staying in Gujarat to the end of works                   | 2001/10/07 News Report                            |
| 2001/11/18-27              | On site work inspection by Yamada of Institute of International                   | Afghanistan attacked                              |
|                            | Cooperation, JICA   |   |
|                            | - Present situation of Implementing, technical relevance, quake                   |   |
|                            | rehabilitation situation and needs of potential assistance                        | 2002/02/27 News Report                            |
|                            |   | Communal Riot in Gujarat began                    |
| 2002/08/04-18              | Draft Final Report Explanation Trip   |   |
| 2002/08/07                 | Explanation of Draft Final Report to the GOG and discussion on the                |   |
|                            | Rebuilding Plan at GSDMA with concerned officers from each sector,                |   |
|                            | including the Secretaries of each sector  |   |
| 2002/08/08,09              | Discussion on revisions of the items for the Rebuilding Plan and signing          |   |
|                            | of Summary of Discussions with the each sector                                    |   |
| 2002/08/14                 | Signing of the Minutes of Meeting on the revised Rebuilding Plan                  |   |
|                            | - Signed by Mr. Mankad, Principal Secretary of Finance Dept.,                     |   |
|                            | Mr. Ito, Team Leader of the Project Team and witnessed by Mr. Take,               |   |
|                            | Deputy Representative of JICA India office  |   |
| GOJ: Government of         | of Japan GOI; Government of Japan GOG; Government of Gujarat CHO                  | Community Health Centre                           |

GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat CHC; Community Health Centre
P/D; Facilities Planning and Design C; Contracting CS; Construction Supervision Div.; Division AW; Day Nursing Centre
DPEP; District Primary Education Programme COH&MS; Commisionerate of Health and Medical Services
NGO; Non-Governmental Organization Div; Division Dept; Department GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat S&T; Science and Technology JDR; Japan Disaster Relief Team

Table-A-1-5 Chronicle of Japanese Assistance-5 QRS Project

| Year / Month / Date / Time | Japanese Assistance to the restoration of the 2001 Gujarat<br>Earthquake in India                                       | Other Movement/Activities<br>1 = 1 Million dollar |
|----------------------------|---|---|
| 2001/08/29                 | Contract for Primary School signed.   | 2001/08/20 News Report                            |
|                            | - Through Bidding process, Stresscrete India Ltd. selected  | General Hospital, Bhuj will be                    |
|                            | - Contracted Completion date 2002/02/25   | completed at 2003 with a Central                  |
|                            |   | Relief Fund of 32 million dollar                  |
| 2001/08/31                 | Contract for CHCs at Anjar and Mundra singed  | 2001/08/21 News Report                            |
|                            | - Through Bidding process, Mitsui Kensetsu India Ltd. selected  | Netherlands' Grant will be 40                     |
|                            | - Contracted Completion date 2002/03/25   | million dollar: 13 had already                    |
| 2001/09/01                 | The work for the Primary schools commenced  | extended 2001/09/11 TV Report                     |
| 2001/09/01                 | The work for the CHCs commenced   | WTC, New York, attacked                           |
| 2001/09/11                 | Demolition order for the CHCs by the GOG issued   | W10, New 10th, attacked                           |
| 2001/09/12                 | Earthquake zone-V certificate for primary school obtained   |   |
|                            |   |   |
| 2001/09/27                 | Contract for Supply of Medical Equipment singed   |   |
|                            | - Through Bidding process, Sun Surgical selected  |   |
|                            | - Contracted Completion date 2002/03/25   |   |
|                            |   |   |
| 2001/09/30                 | Building permit for CHCs by the GOG issued  |   |
| 2004/40/04                 |   | 2001/10/07 News Report                            |
| 2001/10/01 -               | Construction work of the primary schools and CHCs was supervised by   | Afghanistan attacked                              |
| 2002/02/01                 | the Engineer  |   |
| 2002/02/01                 | Coordination meeting regarding Med. Equipment installation held   |   |
| 2002/02/01                 | among the Engineer, the Supplier, the Contractor of CHC   |   |
| 2002/02/16                 | Installation of a shadowless lamp (Med. Equipment) in the OT  |   |
|                            | completed   |   |
|                            |   |   |
| 2002/02/19                 | Final inspection of C-1&2 staff quarters at Anjar CHC carried out   |   |
| 2002/02/27                 | Final inspection of C-3 staff quarters at Anjar CHC carried out   | 2002/02/27 News Report                            |
|                            |   | Communal Riot in Gujarat began                    |
| 2002/02/28                 | The Contractors' works, the Supplier's work and the Engineers' work   | Various parts of Gujarat State                    |
| onward                     | were hindered due to the communal riot.   | went under curfew on and off for over 3 months    |
| 2002/03/12                 | Final inspection for the remaining facilities of CHCs at Anjar and  | over 3 months                                     |
| 2002/03/12                 | Mundra carried out  |   |
| 2002/03/21                 | The Construction work of CHC completed  |   |
| 2002/04/08                 | Major part of the Equipment work completed  |   |
| 2002/04/09                 | CHCs were handed over to the GOG  |   |
|                            | Inaugural ceremony for the CHCs held at Anjar CHC by Hon. Health  |   |
|                            | Minister shri Ashokbhai Bhatt   |   |
| 2002/04/18                 | Supply of Medical Equipment completed   |   |
|                            |   |   |
| 2002/05/17                 | Primary schools at Sumarasar Sheikh and Dhamadka completed  |   |
| 2002/05/19                 | Primary school at Mathak completed  |   |
| 2002/05/23                 | Primary schools at Bhadreshwar (Kumar and Kanya) completed  |   |
| 2002/05/24                 | Primary schools handed over to the DPEO, Bhuj, the GOG of Japan GOI: Government of Japan GOG: Government of Guiarat CHO | Community Health Centre                           |

GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat CHC; Community Health Centre P / D; Facilities Planning and Design C; Contracting CS; Construction Supervision Div.; Division AW; Day Nursing Centre DPEP; District Primary Education Programme COH&MS; Commisionerate of Health and Medical Services NGO; Non-Governmental Organization Div; Division Dept; Department GOJ; Government of Japan GOI; Government of Japan GOG; Government of Gujarat S&T; Science and Technology JDR; Japan Disaster Relief Team

## Table-A-2 List of Worst Affected Villages of Kutch District- gujaratindia.com

Abbreviations : A1 : Worst affected population more then 1000. A2 : Worst affected population less then 1000

| No. | Taluka  | Village          | Population | Status |
|-----|---------|------------------|------------|--------|
| 1   | Anjar   | Ajapar           | 611        | A2     |
| 2   | Anjar   | Ambapar          | 1284       | A1     |
| 3   | Anjar   | Amrapar          | 451        | A2     |
| 4   | Anjar   | Bhadroi          | 750        | A2     |
| 5   | Anjar   | Bhimasar         | 2505       | A1     |
| 6   | Anjar   | Budharmora       | 1281       | A1     |
| 7   | Anjar   | Chandirani       | 1428       | A1     |
| 8   | Anjar   | Devisar          | 140        | A2     |
| 9   | Anjar   | Dhamadka         | 2489       | A1     |
| 10  | Anjar   | Dudhai           | 3591       | A1     |
| 11  | Anjar   | Hirapar          | 738        | A2     |
| 12  | Anjar   | Jagatpar         | 263        | A2     |
| 13  | Anjar   | Jaru             | 803        | A2     |
| 14  | Anjar   | Khambhara        | 1833       | A1     |
| 15  | Anjar   | Khengarpar       | 130        | A2     |
| 16  | jarAn   | Khirsara         | 1426       | A1     |
| 17  | Anjar   | Khokhra          | 971        | A2     |
| 18  | Anjar   | Kotda            | 1444       | A1     |
| 19  | Anjar   | Lakhapar         | 1305       | A1     |
| 20  | Anjar   | Mindiala         | 1240       | A1     |
| 21  | Anjar   | Modsar           | 918        | A2     |
| 22  | Anjar   | Nagalpar [ Moti] | 3661       | A1     |
| 23  | Anjar   | Nagalpar [ Nani] | 844        | A2     |
| 24  | Anjar   | Navgam           | 1141       | A1     |
| 25  | Anjar   | Ningal           | 1876       | A1     |
| 26  | Anjar   | Pashuda          | 539        | A2     |
| 27  | Anjar   | Pashwadi [ Khara | 536        | A2     |
| 28  | Anjar   | Pashwadi [ Mitha | 568        | A2     |
| 29  | Anjar   | Patniya          | -          | A2     |
| 30  | Anjar   | Rapar            | 904        | A2     |
| 31  | Anjar   | Ratnal           | 4640       | A1     |
| 32  | Anjar   | Sapeda/Sapera    | 1621       | A1     |
| 33  | Anjar   | Satapar          | 1426       | A1     |
| 34  | Anjar   | Sinugra          | 2506       | A1     |
| 35  | Anjar   | Sugariy          | 730        | A2     |
| 36  | Anjar   | Tapar            | 2369       | A1     |
| 37  | Anjar   | Vada             | 558        | A2     |
| 38  | Anjar   | Varasmedi        | 2204       | A1     |
| 39  | Anjar   | Vidi             | 1903       | A1     |
| 40  |         | Adhoi            | 8470       | A1     |
| 41  | Bhachau | Amaliyara        | 1736       | A1     |
| 42  | Bhachau | ,                | 1534       | A1     |
| 43  |         | Bandhadi         | 805        | A2     |
| 44  | Bhachau | Baniari          | 1020       | A1     |

| 45  | Bhachau | Bharudia                  | 2586       | A1     |
|-----|---------|---------------------------|------------|--------|
| No. | Taluka  | Village                   | Population | Status |
| 46  | Bhachau | Bhujpar                   | 466        | 6 A2   |
|     |         | Chandrodi                 | 641        | -      |
|     | Bhachau | Chhadavada                | 2253       |        |
| 49  | Bhachau | Chirari Moti              |            | A1     |
|     |         | Chirari Nani              | 3195       | -      |
|     | Bhachau | Chobari                   | 6299       | -      |
| 52  | Bhachau | Chopadva                  | 1101       | A1     |
|     | Bhachau | •                         | 304        | -      |
| 54  | Bhachau | Ganeshpar                 | 945        | 5 A2   |
| 55  | Bhachau | Gharana                   | 2471       | -      |
| 56  | Bhachau | Godpar                    | 414        | 4 A2   |
| 57  | Bhachau | Halra                     | 740        | ) A2   |
|     | Bhachau | Jadsa                     | 603        | 11     |
|     |         | J angi                    | 4625       |        |
| 60  | Bhachau | Kabrau                    | 1236       | 6 A1   |
| 61  | Bhachau | Kadol                     | 1368       |        |
| 62  | Bhachau | Kakarva                   | 1380       | ) A1   |
| 63  | Bhachau | Kankhol                   | 1211       | A1     |
| 64  | Bhachau | Kanthkot                  | 2808       | A1     |
| 65  | Bhachau | Karmariya                 | 929        | A2     |
| 66  | Bhachau | Katariya Juna             | 3039       | A1     |
| 67  | Bhachau | Katariya Nava             | 530        | ) A2   |
| 68  | Bhachau | Kharai                    | 1560       | A1     |
| 69  | Bhachau | Khodasar                  | 439        | A2     |
| 70  | Bhachau | Kumbharadi                | 896        | 6 A2   |
| 71  | Bhachau | Kunjisar [ Meghpa         | ır         | A2     |
| 72  | Bhachau | Lakadiya                  | 6431       | A1     |
| 73  | Bhachau | Lakhdhirgadh<br>[ Alepar] |            | - A2   |
| 74  | Bhachau | Lakhpar                   | 480        | A2     |
|     | Bhachau | _                         | 925        |        |
| 76  | Bhachau | Laliana                   | 2695       | 5 A1   |
| 77  | Bhachau | Lunva                     | 1040       |        |
| 78  | Bhachau | Manfara                   | 2781       |        |
|     | Bhachau | May                       | 2051       |        |
| 80  | Bhachau | Modpar                    | 303        | 3 A2   |
| 81  | Bhachau | Morgar                    | 1150       | A1     |
| 82  | Bhachau | Nara                      | 438        | 3 A2   |
| 83  | Bhachau | Narasari                  | 449        | A2     |
| 84  | Bhachau | Ner                       | 1035       | A1     |
|     | Bhachau | Rajansar                  | 570        |        |
| 86  | Bhachau | Rajthali                  | 40         | ) A2   |
| 87  | Bhachau | Rampar                    | 1404       |        |

| 88 Bhachau | Samakhiali | 5041 | A1 |
|------------|------------|------|----|
| 89 Bhachau | Shikarpur  | 4365 | A1 |

| No. | Taluka  | Village      | Population | Status |
|-----|---------|--------------|------------|--------|
| 90  | Bhachau | Shivlakha    | 1761       | A1     |
| 91  | Bhachau |              | 2069       | A1     |
| 92  | Bhachau | Sukhpar      | 866        | A2     |
| 93  | Bhachau | Toraniya     | 824        | A2     |
| 94  | Bhachau | Umarpar      | 1276       | A1     |
| 95  | Bhachau | Vandhiya     | 3313       | A1     |
| 96  | Bhachau | Vamka        | 1755       | A1     |
| 97  | Bhachau | Vasatva      | 328        | A2     |
| 98  | Bhachau | Vijpasar     | 1908       | A1     |
| 99  | Bhachau | Vondh        | 6885       | A1     |
| 100 | Bhachau | Vondhada     | 1171       | A1     |
| 101 | Bhachau | Meghpar      | 743        | A2     |
| 102 | Bhachau | Piprapati    | 10         | A2     |
| 103 | Bhuj    | Berdo        | 434        | A2     |
| 104 | Bhuj    | Chapereli    | 1313       | A1     |
| 105 | Bhuj    | Chubdak      | 334        | A2     |
| 106 | Bhuj    | Dagala       | 1725       | A1     |
| 107 | Bhuj    | Dhaneti      | 2213       | A1     |
| 108 | Bhuj    | Dhonsa       | 85         | A2     |
| 109 | Bhuj    | Dhori        | 3619       | A1     |
| 110 | Bhuj    | Dhrang       | 685        | A2     |
| 111 | Bhuj    | Gado         | 343        | A2     |
|     | Bhuj    | Habay        | 991        | A2     |
| 113 | Bhuj    | Jadura       | 588        | A2     |
| 114 | Bhuj    | Jawaharnagar | 1268       | A1     |
| 115 | Bhuj    | Jikadi       | 1299       | A1     |
| 116 | Bhuj    | Juriya       | 4231       | A1     |
| 117 | Bhuj    | Kaderai      | 593        | A2     |
|     | 3       | Kanaiyabe    | 1158       | A1     |
|     | Bhuj    | Kera         | 6575       | A1     |
| 120 | Bhuj    | Kotay        | 871        | A2     |
| 121 | Bhuj    | Kukma        | 3300       | A1     |
|     | Bhuj    | Ler          | 164        | A2     |
| 123 | Bhuj    | Lodai        | 3835       | A1     |
| 124 | Bhuj    | Loria        | 1831       | A1     |
|     | Bhuj    | Makanpar     | 143        | A2     |
| 126 | Bhuj    | Mirjhapar    | 4266       | A1     |
| 127 | Bhuj    | Misariyado   | 553        | A2     |
|     | Bhuj    | Nadara       | 1209       | A1     |
| 129 | Bhuj    | Nagor        | 1693       | A1     |
| 130 | Bhuj    | Nokhaniya    | 468        | A2     |
| 131 | Bhuj    | Padhar       | 2115       | A1     |

| No. | Taluka | Village           | Population | Status |
|-----|--------|-------------------|------------|--------|
| 132 | Bhuj   | Paiya             | 505        | A2     |
| 133 | Bhuj   | Raiyada           | 531        | A2     |
| 134 | Bhuj   | Ratiya            | 933        | A2     |
| 135 | Bhuj   | Sanosara          | 754        | A2     |
| 136 | Bhuj   | Sedata            | 1269       | A1     |
| 137 | Bhuj   | Sunarasar Shekhva | 4476       | A1     |
| 138 | Bhuj   | Trambau           | 425        | A2     |
| 139 | Bhuj   | Vadva             | 416        | A2     |
| 140 | Bhuj   | Vantra            | 256        | A2     |
| 141 | Bhuj   | Vavdi             | 20         | A2     |
| 142 | Rapar  | Badargadh         | 2799       | A1     |
| 143 | Rapar  | Bhimasar          | 7850       | A1     |
| 144 | Rapar  | Chitrod           | 4179       | A1     |
| 145 | Rapar  | Dabhunda          | 1154       | A1     |
| 146 | Rapar  | Deshaltar         | -          | A1     |
| 147 | Rapar  | Fathehgadh        | 5501       | A1     |
| 148 | Rapar  | Gedi              | 4661       | A1     |
| 149 | Rapar  | Ghanithal         | 1491       | A1     |
| 150 | Rapar  | Gavaripar         | 916        | A1     |
| 151 | Rapar  | Hamirpar [ Moti]  | 3021       | A1     |
| 152 | Rapar  | Hamirpar [ Nani]  | 1411       | A1     |
| 153 | Rapar  | Jadavas           | 231        | A2     |
| 154 | Rapar  | Jesda             | 1235       | A1     |
| 155 | Rapar  | Kanpar            | 1144       | A1     |
| 156 | Rapar  | Karuda            | 628        | A2     |
| 157 | Rapar  | Khirai            | 1380       | A1     |
| 158 | Rapar  | Kidiyanagar       | 6288       | A1     |
| 159 | Rapar  | Lakda Vandh       | 436        | A2     |
| 160 | Rapar  | Naliya Timbo      | 505        | A2     |
| 161 | Rapar  | Nandasar          | 1915       | A1     |
| 162 | Rapar  | Nilpar            | 2028       | A1     |
| 163 | Rapar  | Palanpar          | 523        | A2     |
| 164 | Rapar  | Pragpar           | 3163       | A1     |
| 165 | Rapar  | Sai               | 3384       | A1     |
| 166 | Rapar  | Sany              | 674        | A2     |
| 167 | Rapar  | Sarasal           | 231        | A2     |
| ==  | Rapar  | Selari            | 3371       | A1     |
| 169 | Rapar  | Sudana Vandh      | 85         | A2     |
| 170 | Rapar  | Surba Vandh       | 205        | A2     |
| 171 | Rapar  | Suvai             | 2605       | A1     |
| 172 | Rapar  | Trambau           | 2211       | A1     |
| 173 | Rapar  | Umaiya            | 2775       | A1     |
| 174 | Rapar  | Vekra             | 176        | A2     |

Table-A-3 NGO-Adopted Villages in Kutch district -Based on GSDMA

| No.         Taluka         District         Village         Name of NGO           1         Abdasa         Kutch         Bara         VRTI(K.A.)           2         Abdasa         Kutch         Blimpar         Vibhas Trust (Ms Urvashi Devi)           4         Abdasa         Kutch         Hilingaria         Vibhas Trust (Ms Urvashi Devi) Village Completed           5         Abdasa         Kutch         Kutch Kuvapaddhar         SEWA           6         Abdasa         Kutch         Kutch Mota Karodia         VRTI(K.A.)           7         Abdasa         Kutch         Nama Karodia         VRTI(K.A.)           8         Abdasa         Kutch         Nama Karodia         VRTI(K.A.)           9         Abdasa         Kutch         Suipapar         SEWA           10         Abdasa         Kutch         Sukhpan Bara         VRTI(K.A.)           11         Abdasa         Kutch         Sukhpan Bara         VRTI(K.A.)           12         Abdasa         Kutch         Anjar         Kutch           13         Anjar         Kutch         Anjara         Kutch           14         Anjar         Kutch         Anjara         Kutch           15   | (Positi  | on as on 24/7/ | (2001) |                                       |   |
|--|----------|----------------|--------|---------------------------------------|---|
| 1         Abdasa         Kutch         Ashapar         VRTI(K.A.)           2         Abdasa         Kutch         Bara         VRTI(K.A.)           3         Abdasa         Kutch         Bhimpar         Vibhas Trust (Ms Urvashi Devi) Village Completed           5         Abdasa         Kutch         Hingaria         Vibhas Trust (Ms Urvashi Devi) Village Completed           6         Abdasa         Kutch         Mota Karodia         VRTI(K.A.)           7         Abdasa         Kutch         Mota Karodia         VRTI(K.A.)           8         Abdasa         Kutch         Nana Karodia         Rotary Club Bombay South (KA)           10         Abdasa         Kutch         Naredi         VRTI(K.A.)           11         Abdasa         Kutch         Sukhpar Barra         VRTI(K.A.)           12         Abdasa         Kutch         Sukhpar Barra         VRTI(K.A.)           13         Anjar         Kutch         Aipapar         PECL-CARE           14         Anjar         Kutch         Aimapar         FECL-CARE           15         Anjar         Kutch         Ahaparapar         Shree Vallabhacharya Vishvakalyan Trust           16         Anjar         Kutch         Chandrani </th <th><u> </u></th> <th></th> <th></th> <th>Village</th> <th>Name of NGO</th>  | <u> </u> |                |        | Village                               | Name of NGO                                     |
| 2         Abdasa         Kutch         Bara         VRTI(K.A.)           3         Abdasa         Kutch         Bhimpar         Vibhas Trust (Ms Urvashi Devi)           4         Abdasa         Kutch         Hingaria         Vibhas Trust (Ms Urvashi Devi) Village Completed           5         Abdasa         Kutch         Kuvapaddhar         SEWA           6         Abdasa         Kutch         Mota Karodia         VRTI(K.A.)           7         Abdasa         Kutch         Mota Karodia         Rotary Club Bombay South (KA)           8         Abdasa         Kutch         Nana Karodia         Rotary Club Bombay South (KA)           9         Abdasa         Kutch         Naredi         VRTI(K.A.)           10         Abdasa         Kutch         Sukppar Bara         VRTI(K.A.)           11         Abdasa         Kutch         Aipapar         NARSOC           14         Anjar         Kutch         Aipapar         NARSOC           14         Anjar         Kutch         Amaparapar         Shree Vallabhacharya Vishvakalyan Trust           15         Anjar         Kutch         Abnarapar         Shree Vallabhacharya Vishvakalyan Trust           16         Anjar         Kutch   | 1        | Abdasa         | Kutch  |                                       | VRTI(K.A.)                                      |
| 44         Abdasa         Kutch         Hingaria         Vibhas Trust (Ms Urvashi Devi)Village Completed           5         Abdasa         Kutch         Kuvapaddhar         SEWA           6         Abdasa         Kutch         Lakhaniya         VRTI(K.A.)           7         Abdasa         Kutch         Maradia         VRTI(K.A.)           8         Abdasa         Kutch         Naredia         VRTI(K.A.)           9         Abdasa         Kutch         Naredia         VRTI(K.A.)           10         Abdasa         Kutch         Sujapar         SEWA           11         Abdasa         Kutch         Sukhpar Bara         VRTI(K.A.)           12         Abdasa         Kutch         Aijaar         VRTI(K.A.)           13         Anjar         Kutch         Ajapar         NARSOC           14         Anjar         Kutch         Ambapar         FICCI-CARE           15         Anjar         Kutch         Bhavanipur         Vallabh Poundation           17         Anjar         Kutch         Chandiya         Government of M.P.           18         Anjar         Kutch         Chandrani         Ramkrishna Mission Ashram           19 <td< td=""><td>2</td><td>Abdasa</td><td>Kutch</td><td>Bara</td><td>VRTI(K.A.)</td></td<>  | 2        | Abdasa         | Kutch  | Bara                                  | VRTI(K.A.)                                      |
| 5         Abdasa         Kutch         Kuvapaddhar         SEWA           6         Abdasa         Kutch         Lakhaniya         VRTI(K.A.)           7         Abdasa         Kutch         Moa Karodia         VRTI(K.A.)           8         Abdasa         Kutch         Naradi         VRTI(K.A.)           9         Abdasa         Kutch         Sukpar         SEWA           11         Abdasa         Kutch         Sukpar         SEWA           11         Abdasa         Kutch         Sukpar         VRTI(K.A.)           12         Abdasa         Kutch         Aipar         VRTI(K.A.)           13         Anjar         Kutch         Ajapar         NARSOC           14         Anjar         Kutch         Ampar         FFCCI-CARE           15         Anjar         Kutch         Amapar         Shree Vallabhacharya Vishvakalyan Trust           16         Anjar         Kutch         Chandrani         Government of M.P.           18         Anjar         Kutch         Chandrani         Ramkrishna Mission Ashram           19         Anjar         Kutch         Devisar         Swaminaryan Aksharpurshotam           20         Anjar   | 3        | Abdasa         | Kutch  | Bhimpar                               | Vibhas Trust (Ms Urvashi Devi)                  |
| 6         Abdasa         Kutch         Lakhaniya         VRTI(K.A.)           7         Abdasa         Kutch         Mota Karodia         VRTI(K.A.)           8         Abdasa         Kutch         Nan Karodia         VRTI(K.A.)           9         Abdasa         Kutch         Najapar         SEWA           10         Abdasa         Kutch         Sujapar         SEWA           11         Abdasa         Kutch         Sujapar         VRTI(K.A.)           12         Abdasa         Kutch         Aijapar         VRTI(K.A.)           13         Anjar         Kutch         Ajapar         NARSOC           14         Anjar         Kutch         Ambapar         FICCI-CARE           15         Anjar         Kutch         Ambapar         FICCI-CARE           16         Anjar         Kutch         Bhavanipur         Vallabh Foundation           17         Anjar         Kutch         Chandiya         Government of M.P.           18         Anjar         Kutch         Chandrani         Ramkrishna Mission Ashram           19         Anjar         Kutch         Dudhai         Rashtriya Swabhiman           20         Anjar         Kutch<  | 4        | Abdasa         | Kutch  | Hingaria                              | Vibhas Trust (Ms Urvashi Devi)Village Completed |
| 6         Abdasa         Kutch         Lakhaniya         VRTI(K.A.)           7         Abdasa         Kutch         Mota Karodia         VRTI(K.A.)           8         Abdasa         Kutch         Nan Karodia         VRTI(K.A.)           9         Abdasa         Kutch         Najapar         SEWA           10         Abdasa         Kutch         Sujapar         SEWA           11         Abdasa         Kutch         Sujapar         VRTI(K.A.)           12         Abdasa         Kutch         Aijapar         VRTI(K.A.)           13         Anjar         Kutch         Ajapar         NARSOC           14         Anjar         Kutch         Ambapar         FICCI-CARE           15         Anjar         Kutch         Ambapar         FICCI-CARE           16         Anjar         Kutch         Bhavanipur         Vallabh Foundation           17         Anjar         Kutch         Chandiya         Government of M.P.           18         Anjar         Kutch         Chandrani         Ramkrishna Mission Ashram           19         Anjar         Kutch         Dudhai         Rashtriya Swabhiman           20         Anjar         Kutch<  | 5        | Abdasa         | Kutch  |                                       | SEWA  |
| 7         Abdasa         Kutch         Mota Karodia         VRTI(K.A.)           8         Abdasa         Kutch         Nana Karodia         Rotary Club Bombay South (KA)           9         Abdasa         Kutch         Nardi         VRTI(K.A.)           10         Abdasa         Kutch         Sukpapar         SEWA           11         Abdasa         Kutch         Sukpapar         SEWA           12         Abdasa         Kutch         Tera         VRTI(K.A.)           13         Anjar         Kutch         Ajapar         NARSOC           14         Anjar         Kutch         Ambapar         FICCI-CARE           15         Anjar         Kutch         Ampapar         Shee Vallabhacharya Vishvakalyan Trust           16         Anjar         Kutch         Chandrani         Rashriya Boudation           17         Anjar         Kutch         Chandrani         Rashriya Boudation           18         Anjar         Kutch         Chandrani         Rashtriya Swabhiman           20         Anjar         Kutch         Dudhai         Rashtriya Swabhiman           21         Anjar         Kutch         Khinsara         Jamiat E Ulma I Hind           2  | 6        | Abdasa         | Kutch  |                                       | VRTI(K.A.)                                      |
| 9 Abdasa Kutch Sujapar SEWA 11 Abdasa Kutch Sujapar SEWA 12 Abdasa Kutch Sukhpar Bara VRTI(K.A.) 13 Anjar Kutch Ajapar NARSOC 14 Anjar Kutch Ajapar FICCI-CARE 15 Anjar Kutch Bhavanipur Vallabh Foundation 16 Anjar Kutch Chandrani Ramkrishna Mission Ashram 19 Anjar Kutch Devisar Swaminarayan Aksharpurshotam 20 Anjar Kutch Dirangawadi Swaminarayan Aksharpurshotam 21 Anjar Kutch Dirangawadi Swaminarayan Aksharpurshotam 22 Anjar Kutch Khambara Word & Deed India 23 Anjar Kutch Khirsara Nana Swaminarayan Aksharpurshotam 24 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 25 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 26 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 27 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 28 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 39 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 30 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 31 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 32 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 33 Anjar Kutch Khirsara Saman Swaminarayan Aksharpurshotam 34 Anjar Kutch Mithapasvaria Seewa Bharti 35 Anjar Kutch Modsar Kisan Sewa Fund.C/o IFFCO 36 Anjar Kutch Modsar Kisan Sewa Fund.C/o IFFCO 37 Anjar Kutch Sugariya Global Source Net 38 Anjar Kutch Valadiya Bitta (East) EFICOR 39 Anjar Kutch Sugariya Global Source Net 30 Anjar Kutch Sugariya Global Source Net 31 Anjar Kutch Sugariya Global Source Net 32 Anjar Kutch Sugariya Tibetian Government of Maharashtra 33 Bhachau Kutch Bhujpar Rashtriya Swabhiman 34 Bhachau Kutch Bhujpar Rashtriya Swabhiman 35 Bhachau Kutch Bhujpar Rashtriya Swabhiman 36 Bhachau Kutch Bhujpar Rashtriya Swabhiman 37 Bhachau Kutch Bhujpar Rashtriya Swabhiman 38 Bhachau Kutch Godpar Rashtriya Swabhiman 40 Bhachau Kutch Kutch Kakarava Jajirakash Industries 41 Bhachau Kutch Kutch Kakarava Jajirakash Industries 42 Bhachau Kutch Lakdhirgadh FICCI-CARE | 7        | Abdasa         | Kutch  | · · · · · · · · · · · · · · · · · · · |   |
| 9         Abdasa         Kutch         Naredi         VRTI(K.A.)           10         Abdasa         Kutch         Sukhpar Bara         SEWA           11         Abdasa         Kutch         Sukhpar Bara         VRTI(K.A.)           12         Abdasa         Kutch         VRTI(K.A.)           13         Anjar         Kutch         Ajapar         NARSOC           14         Anjar         Kutch         Ambapar         FICCI-CARE           15         Anjar         Kutch         Ambapar         FICCI-CARE           16         Anjar         Kutch         Bhavanipur         Vallabh Foundation           17         Anjar         Kutch         Chandrani         Ramkrishna Mission Ashram           19         Anjar         Kutch         Chandrani         Ramkrishna Mission Ashram           20         Anjar         Kutch         Dufhai         Rashtriya Swabhiman           21         Anjar         Kutch         Dufhai         Rashtriya Swabhiman           22         Anjar         Kutch         Khirsara         Jamiat E Ulma I Hind           23         Anjar         Kutch         Khirsara         Jamiat E Ulma I Hind           24         Anjar   | 8        | Abdasa         | Kutch  | Nana Karodia                          | Rotary Club Bombay South (KA)                   |
| 10   | 9        | Abdasa         |        | Naredi                                |   |
| Abdasa   |          | Abdasa         | Kutch  | Sujapar                               |   |
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| 30AnjarKutchSugariyaGlobal Source Net31AnjarKutchValadiya Bitta (East)EFICOR32AnjarKutchValadiya Bitta (West)EFICOR33AnjarKutchVershanaAvas Vikas Limited. C/o Government of Rajasthan34BhachauKutchAdhoi (Pasakayara)Government of Maharashtra35BhachauKutchBandhadiShree Vallabhacharya Vishvakalyan Trust36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE  |          | _              |        |                                       |   |
| 31AnjarKutchValadiya Bitta (East)EFICOR32AnjarKutchValadiya Bitta (West)EFICOR33AnjarKutchVershanaAvas Vikas Limited. C/o Government of Rajasthan34BhachauKutchAdhoi (Pasakayara)Government of Maharashtra35BhachauKutchBandhadiShree Vallabhacharya Vishvakalyan Trust36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 32AnjarKutchValadiya Bitta (West)EFICOR33AnjarKutchVershanaAvas Vikas Limited. C/o Government of Rajasthan34BhachauKutchAdhoi (Pasakayara)Government of Maharashtra35BhachauKutchBandhadiShree Vallabhacharya Vishvakalyan Trust36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE  |          | _              |        |                                       |   |
| 33AnjarKutchVershanaAvas Vikas Limited. C/o Government of Rajasthan34BhachauKutchAdhoi (Pasakayara)Government of Maharashtra35BhachauKutchBandhadiShree Vallabhacharya Vishvakalyan Trust36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          | _              |        |                                       |   |
| 34BhachauKutchAdhoi (Pasakayara)Government of Maharashtra35BhachauKutchBandhadiShree Vallabhacharya Vishvakalyan Trust36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE  |          | ŭ              |        |                                       |   |
| 35BhachauKutchBandhadiShree Vallabhacharya Vishvakalyan Trust36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          | _              |        |                                       | ž   |
| 36BhachauKutchBhujparRashtriya Swabhiman37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE  |          |                |        | · · · · · · · · · · · · · · · · · · · |   |
| 37BhachauKutchChirai MotiFICCI-CARE38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE  |          |                |        |                                       | ·   |
| 38BhachauKutchDeshalparTibetian Government in Exile39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 39BhachauKutchDholaviraRambhau Mahalgi Pravhodhini (Shri P Mahajan)40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE  |          |                |        |                                       |   |
| 40BhachauKutchEkal VandhFICCI-CARE41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 41BhachauKutchGemerauDiscipleship - World Relief42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 42BhachauKutchGodparKutch Yuvak Sangh (KA)43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 43BhachauKutchKabrauVallabh Foundation44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 44BhachauKutchKakaravaJai Prakash Industries45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 45BhachauKutchKharoiFICCI-CARE46BhachauKutchLakadiyaGovernment of Maharashtra47BhachauKutchLakdhirgadhFICCI-CARE   |          |                |        |                                       |   |
| 46 Bhachau Kutch Lakadiya Government of Maharashtra 47 Bhachau Kutch Lakdhirgadh FICCI-CARE  |          |                |        |                                       |   |
| 47 Bhachau Kutch Lakdhirgadh FICCI-CARE  |          |                |        |                                       |   |
|  |          |                |        |                                       |   |
| 4X   Bhachail   Kiifch   Nilhara     Elf Til ARE   | 48       | Bhachau        | Kutch  | Nilpara                               | FICCI-CARE                                      |
| 49 Bhachau Kutch Parkara Vandh FICCI-CARE  |          |                |        |                                       |   |

| No. | Taluka     | District       | Village        | Name of NGO  |
|-----|------------|----------------|----------------|--|
| 50  | Bhachau    | Kutch          | Rajansar       | Kutch Yuvak Sangh  |
| 51  | Bhachau    | Kutch          | Surajbari      | Caritas India  |
| 52  | Bhachau    | Kutch          | Vondh          | Government of Maharashtra  |
| 53  | Bhuj       | Kutch          | Andhau         | Sahjeevan (KA)   |
| 54  | Bhuj       | Kutch          | Banda          | Jamiat E Ulma I Hind   |
| 55  | Bhuj       | Kutch          | Bandha Navasas | Sahjeevan (KA)   |
| 56  | Bhuj       | Kutch          | Bhujodi        | Caritas India  |
| 57  | Bhuj       | Kutch          | Chapereli      | Sewa Bharti  |
| 58  | Bhuj       | Kutch          | Dagala         | Mata Amrutaanadmai Math  |
| 59  | Bhuj       | Kutch          | Dhaneti        | Ramkrishna Mission Ashram  |
| 60  | Bhuj       | Kutch          | Dhrobana       | Kutch Mahila Vikas Sangathan (KA)                                    |
| 61  | Bhuj       | Kutch          | Dinara         | Kutch Mahila Vikas Sangathan M-Sahjeevan N (KA)                      |
| 62  | Bhuj       | Kutch          | Gado           | Divine Life-Suchak Hospital  |
| 63  | Bhuj       | Kutch          | Jam Kunariya   | Kutch Mahila Vikas Sangathan (KA)                                    |
| 64  | Bhuj       | Kutch          | Jawaharnagar   | Government of Delhi  |
| 65  | Bhuj       | Kutch          | Juna           | Kutch Mahila Vikas Sangathan (KA)                                    |
| 66  | Bhuj       | Kutch          | Kalyanpar      | Caritas India  |
| 67  | Bhuj       | Kutch          | Kaniyabe       | Avas Vikas Limited. C/o Government of Rajasthan                      |
| 68  | Bhuj       | Kutch          | Kotay          | Government of M.P.   |
| 69  | Bhuj       | Kutch          | Ludiya         | Manay Sadhana  |
| 70  | Bhuj       | Kutch          | Modsar         | Mata Amrutaanadmai Math  |
| 71  | Bhuj       | Kutch          | Mokhana        | Mata Amrutaanadmai Math  |
| 72  | Bhuj       | Kutch          | Moti Rohatad   | Kutch Mahila Vikas Sangathan (KA)                                    |
| 73  | Bhuj       | Kutch          | Nani Rohtad    | Kutch Mahila Vikas Sangathan (KA)  Kutch Mahila Vikas Sangathan (KA) |
| 74  | Bhuj       | Kutch          | Padhar         | Rotary Gujarat Earthquake Rebuild Trust                              |
| 75  | Bhuj       | Kutch          | Paiya          | Catholic Relief Service  |
| 76  | Bhuj       | Kutch          | Pirvadi        | Dewakinandanacharya Smarak Nidhi                                     |
| 77  | Bhuj       | Kutch          | Ratiya         | Caritas India  |
| 78  | Bhuj       | Kutch          | Raydhanpar     | Caritas India Caritas India  |
| 79  | Bhuj       | Kutch          | Sarspar        | MARTHOMA   |
| 80  | Bhuj       | Kutch          | Ukhad Mora     | Swaminarayan Aksharpurshotam   |
| 81  | Bhuj       | Kutch          | Umedpar        | Caritas India  |
| 82  | Bhuj       | Kutch          | Vinchiya       | VRTI (KA)  |
| 83  | Gandhidham | Kutch          | Padana         | Kisan Sewa Fund.C/o IFFCO  |
| 84  | Lakhpat    | Kutch          | Kotda Madh     | VRTI(K.A.)   |
| 85  | Lakhpat    |                | Matana Madh    | SEWA   |
| 86  | Lakhpat    | Kutch<br>Kutch | Naredi         | Ashapara Foundation (KA)   |
| 87  | Mandvi     | Kutch          | Ajapar         | Rural Development Trust  |
| 88  | Mandvi     | Kutch          | Bhada          | VRTI (KA)  |
| 89  | Mandvi     | Kutch          | Bhadai Mota    | Catholic Relief Service  |
| 90  | Mandvi     | Kutch          | Bhadia Nana    | VRTI (KA)  |
| 91  | Mandvi     | Kutch          | Guniasar Moti  | VRTI (KA)  |
| 92  | Mandvi     | Kutch          | Guniasar Nani  | VRTI(KA)   |
| 93  | Mandvi     | Kutch          | Kotdi          | Catholic Relief Service  |
| 93  | Mandvi     | Kutch          | Mau Nani       | Swaminarayan Aksharpurshotam   |
| 95  | Mandvi     | Kutch          | Ratadiya Mota  | Catholic Relief Service  |
| 96  | Mandvi     | Kutch          | Ratadiya Nana  | Catholic Relief Service  Catholic Relief Service                     |
| 97  | Mandvi     | Kutch          | Tragadi        | VRTI(K.A.)   |
| 98  | Mandvi     | Kutch          | Undoth Moti    | VRTI(K.A.)   |
| 99  | Mundra     | Kutch          | Bagada         | VRTI (K.A.)  |
| 100 | Mundra     | Kutch          | Bocha          | Kutch Yuvak Sangh(K.A.)  |
| 100 |            |                | Depa           | VRTI (KA)  |
| 101 | Mundra     | Kutch          | Бера           | VKII (KA)  |

| No. | Taluka     | District | Village        | Name of NGO                             |
|-----|------------|----------|----------------|---|
| 102 | Mundra     | Kutch    | Kandagara Nana | VRTI (KA)                               |
| 103 | Mundra     | Kutch    | Pawadiyara     | VRTI(K.A.)                              |
| 104 | Mundra     | Kutch    | Ramaniya       | VRTI (KA)                               |
| 105 | Mundra     | Kutch    | Viraniya       | VRTI (KA)                               |
| 106 | Nakhatrana | Kutch    | Aral Moti      | Catholic Relief Service                 |
| 107 | Nakhatrana | Kutch    | Bhadali        | Shrujan Trust (K.A.)                    |
| 108 | Nakhatrana | Kutch    | Bharapar       | Catholic Relief Service                 |
| 109 | Nakhatrana | Kutch    | Bhimsar        | Catholic Relief Service                 |
| 110 | Nakhatrana | Kutch    | Jiyapar        | Swaminarayan Aksharpurshotam            |
| 111 | Nakhatrana | Kutch    | Lifri          | SEWA                                    |
| 112 | Rapar      | Kutch    | Bela           | Rotary Gujarat Earthquake Rebuild Trust |
| 113 | Rapar      | Kutch    | Dabhunda       | FICCI-CARE                              |
| 114 | Rapar      | Kutch    | Davri          | FICCI-CARE                              |
| 115 | Rapar      | Kutch    | Khirai         | L & T Ltd.                              |
| 116 | Rapar      | Kutch    | Nilpar         | L & T Ltd.                              |
| 117 | Rapar      | Kutch    | Sangadh        | Akhil Vishwa Gayatri Parivar            |
| 118 | Rapar      | Kutch    | Sangramsar Wat | Swaminarayan Gurukul Kheda              |
| 119 | Rapar      | Kutch    | Saranvadi      | FICCI-CARE                              |
| 120 | Rapar      | Kutch    | Sarenshwar     | Sawan Kirpal Ruhani Mission             |
| 121 | Rapar      | Kutch    | Vekra          | Sawan Kirpal Ruhani Mission             |
| 122 | Rapar      | Kutch    | Vijaypar       | FICCI-CARE                              |

## In-Principal Approvals have been given for the following villages in ten talukas of Kutch District

| Sr. No. | Taluka  | District | Village       | Name of the NGO                           |
|---------|---------|----------|---------------|---|
| 1       | Abdasa  | Kutch    | Aida          | VRTI(K.A.)                                |
| 2       | Abdasa  | Kutch    | Balachod Moti | VRTI(K.A.)                                |
| 3       | Abdasa  | Kutch    | Bandiya       | KFFF-VRTI                                 |
| 4       | Abdasa  | Kutch    | Buta          | VRTI(K.A.)                                |
| 5       | Abdasa  | Kutch    | Duphi Nani    | VRTI(K.A.)                                |
| 6       | Abdasa  | Kutch    | Jangadiya     | VRTI(K.A.)                                |
| 7       | Abdasa  | Kutch    | Jat Vandh     | VRTI(K.A.)                                |
| 8       | Abdasa  | Kutch    | Karaiya       | VRTI(K.A.)                                |
| 9       | Abdasa  | Kutch    | Karmata       | VRTI(K.A.)                                |
| 10      | Abdasa  | Kutch    | Laiyari       | VRTI(K.A.)                                |
| 11      | Abdasa  | Kutch    | Nangia        | VRTI(K.A.)                                |
| 12      | Abdasa  | Kutch    | Ustia         | VRTI(K.A.)                                |
| 13      | Anjar   | Kutch    | Satapar       | IFFCO                                     |
| 14      | Anjar   | Kutch    | Vidi          | FICCI-CARE                                |
| 15      | Bhachau | Kutch    | Kujisar       | CARE                                      |
| 16      | Bhachau | Kutch    | Sukhpar       | Bhansali Trust                            |
| 17      | Bhuj    | Kutch    | Habai         | Caritas India                             |
| 18      | Mundra  | Kutch    | Gelda         | VRTI(K.A.)                                |
| 19      | Mundra  | Kutch    | Ghogha        | VRTI(K.A.)                                |
| 20      | Mundra  | Kutch    | Goyasangh     | Rural Agro Research & Development Society |
| 21      | Mundra  | Kutch    | Kara Ghoga    | Rural Agro Research & Development Society |
| 22      | Mundra  | Kutch    | Samaghogha    | VRTI(K.A.)                                |

Confederation of Indian Industry(CII) has decided to fully fund & reconstruct Physical & Social Infrastructure in 25 villages of Bhachau Taluka. CII proposes to complete the project in three phases:

1) Community Assets & Social Infrastructure (Starting date - 26th July, 2001 and to be completed latest by 4th week of December, 2001. 2) Other Infrastructure (Scope of work under preparation by CEPT) and 3) Economic Rehabilitation (Planning in conjunction with expert agencies including Abhiyan members, Development Alternatives - Delhi, IMRB, ORG and MARG). The list of 25 villages where CII will work is as shown:

| 1  | Amaliyara     | 14 | Laliana   |
|----|---------------|----|-----------|
| 2  | Amardi        | 15 | May       |
| 3  | Baniari       | 16 | Morgar    |
| 4  | Chhadavada    | 17 | Nara      |
| 5  | Chopadva      | 18 | Rajthali  |
| 6  | Chirai Nani   | 19 | Rampar    |
| 7  | Gharana       | 20 | Shikarpar |
| 8  | Halra         | 21 | Shivlakha |
| 9  | Kadol         | 22 | Sukhpar   |
| 10 | Kankhot       | 23 | Vamka     |
| 11 | Katariya Juna | 24 | Vandhiya  |
| 12 | Katariya Nava | 25 | Vasatva   |

Table-A-4 NGO-Adopted Villages in Other District –Based on GSDMA

| Positi | Position as on 24/07/2001 |            |               |   |  |  |
|--------|---------------------------|------------|---------------|---|--|--|
| . No.  | District                  | Taluka     | Village       | Name of the NGO                                       |  |  |
| 1      | Jamnagar                  | Dhrol      | Jaliya Devani | CASA  |  |  |
| 2      | Jamnagar                  | Jodiya     | Fadsar        | CASA  |  |  |
| 3      | Jamnagar                  | Jodiya     | Fatsar        | CASA  |  |  |
| 4      | Jamnagar                  | Jodiya     | Kerali        | CASA  |  |  |
| 5      | Jamnagar                  | Jodiya     | Koyli         | CASA  |  |  |
| 6      | Jamnagar                  | Jodiya     | Mavrugam      | CNI - Gujarat Diocese                                 |  |  |
| 7      | Jamnagar                  | Jamnagar   | Moda          | Indian Navy   |  |  |
| 8      | Jamnagar                  | Jamnagar   | Nani Mati     | Rotary Club Baroda                                    |  |  |
| 9      | Patan                     | Raydhanpur | Agichana      | Gems & Jewellery NRF                                  |  |  |
| 10     | Patan                     | Santalpur  | Babra         | SEWA  |  |  |
| 11     | Patan                     | Santalpur  | Bakutra       | SEWA  |  |  |
| 12     | Patan                     | Santalpur  | Bavarda       | SEWA  |  |  |
| 13     | Patan                     | Santalpur  | Chhansara     | SEWA  |  |  |
| 14     | Patan                     | Santalpur  | Jakhotra      | Sewa Bharti   |  |  |
| 15     | Surendranagar             | Halvad     | Mayapur       | Shakti Pratisthan                                     |  |  |
| 16     | Surendranagar             | Dasada     | Visnagar      | Sewa Bharti   |  |  |
| 17     | Surendranagar             | Dasada     | Surel         | Valani Charitable Trust                               |  |  |
| 18     | Surendranagar             | Dasada     | Vachharajpura | Sewa Bharti   |  |  |
| 19     | Surendranagar             | Sayla      | Ninama        | International Institute for Sustainable Future (IISF) |  |  |
| 20     | Rajkot                    | Wankaner   | Gariya        | Swaminarayan Akshapurshottam                          |  |  |
| 21     | Rajkot                    | Maliya     | Bhavpar       | Central Chinmaya Mission                              |  |  |
| 22     | Rajkot                    | Morbi      | Billiya       | Navjeevan Trust                                       |  |  |
| 23     | Rajkot                    | Morbi      | Juna Sadulka  | Vadilal Gandhi Foundation                             |  |  |
| 24     | Rajkot                    | Morbi      | Modpar        | Swaminarayan Akshapurshottam                          |  |  |
| 25     | Rajkot                    | Morbi      | Pipaliya      | Government of Chattisgarh                             |  |  |
| 26     | Rajkot                    | Morbi      | Sokhda        | GNFC Ltd  |  |  |

## Table-A-5 NGOs Idnia

| Sr<br>No | Organisation                              | Name & Address   | Designation               | Contact Info  |
|----------|---|--|---------------------------|---|
| 1        | Acil – Navasarjan<br>Rural Dev Foundation | Yogendra Parikh<br>Add-1:<br>- 409 New Udyog Bhavan Moghul<br>Lane 2 Mahim (w)   | Mg Trustee                | City : -Mumbai Phone No. : -022 4469341 Fax No. : -022 4452573 E-mail ID : -amtortho@bom5.vsnl.net.in       |
| 2        | Akhil Vishwa<br>Gayatri Parivar           | Add-1: - Sri Vedmata Gayatri Trust Shanti<br>Kunj                                | Trustee                   | City : -Haridwar Phone No. : -0133  |
| 3        | AMRUT                                     | Nirmohanana-nd Avdut<br>Add-1:<br>- 349,A1 Shah & Nahar ,1/E Parel               |                           | City : -Mumbai Phone No. : -022 493 6110 Fax No. : -022 493 1692  |
| 4        | Ashapura Foundation                       | Tusharbhai Dedhiya<br>Add-1:<br>- Banker Colony                                  |                           | City : - Bhuj<br>Phone No. : - 02832 20975  |
| 5        | Baif Dev Res<br>Foundation                | B R Patil Add-1: - 3 <sup>rd</sup> Floor Indra Complex Nr Amarjot Soc. Manjalpur | President                 | City : - Baroda<br>Phone No. : - 0265 654097<br>Fax No. : - 0265 651802                                     |
| 6        | Bansal Charitable<br>Trust                | P R Bansal<br>Add-1:<br>- 25/26 Sector 10 B Light<br>Industrial Area             |                           | City : - Gandhidham Phone No. : - 02836 34729 Fax No. : - 02836 39713 E-mail ID : - pushpendrab@hotmail.com |
| 7        | Bhagwatiba Gandhi<br>Gram Udyog           | M V Parmar<br>Add-1:<br>- Old Bus Stand Bayad                                    |                           | City : - SabharKanta Phone No. : - 02779-22244 Fax No. : - 02779-87339                                      |
| 8        | BILT Ltd                                  | Manoj Dutt Add-1: - 35,Himmat nagar revenue Colony                               |                           | City : - Bhuj Phone No. : - 02832 54252 Fax No. : - 02832-53386 E-mail ID : -unitkhavda@bilt.com            |
| 9        | Caritas India                             | Arockiam<br>Add-1:<br>- C.B.C.I Centre Ashok Place                               |                           | City : - New Delhi Phone No. : - 011-363390 Fax No. : - 011-3715416 E-mail ID : -caritasindia@vsnl.com      |
| 10       | CASA                                      | RSR Selwine<br>Add-1:<br>- 21,YMCA Road, Methodist<br>Centre Mumbai Central      |                           | City : - Mumbai Phone No. : - 98201 57209 Fax No. : - 022-3085400 E-mail ID : -selwine@cas-india.org        |
| 11       | Catholic Relif Service                    | Bhavana Patel<br>Add-1:<br>- Kutch Vikas Trust Raidhanpur<br>Nagor               | Coordinator               | City : - Bhuj<br>Phone No. : - 02832-74252<br>Fax No. : - 02832 74253                                       |
| 12       | Central Chinmay<br>Mission                | Narin Bhatiya<br>Add-1:<br>- Shakti vihar Road Powai                             |                           | City : - Mumbai Phone No. : - 022 8572367 Fax No. : - 022 8573065 E-mail ID : -ccmt@vsnl.com                |
| 13       | CNI – Gujarat Diocese                     | M S Prakash<br>Add-1:<br>- JP Mission Compound<br>Ellisbridge                    | Treasurer                 | City : - Ahmedabad<br>Phone No. : - 079-6569567<br>Fax No. : - 079-6561950                                  |
| 14       | Confederation Of<br>Indian Industry       | Sunil R Parikh<br>Add-1:<br>- 203/4,SEARS Towers Gulbai<br>Tekara Panchwati      |                           | City : - Ahmedabad Phone No. : - 0796468872 Fax No. : - 079¥6462878 E-mail ID : -ciigui@ad1.vsnl.net.in     |
| 15       | Delhi Municipal<br>Corporation            | Add-1: - MCD,Town Hall Chandni Chowk   | Municipal<br>Commissioner | City : - Delhi  |

| Sr<br>No | Organisation                          | Name & Address   | Designation                                   | Contact Info   |
|----------|---------------------------------------|--|---|--|
| 16       | Dewakinand-anacharya<br>Smarak Nidhi  | Jitendra Shah<br>Add-1:<br>- Shree Vallabhlaljii                       | Trustee                                       | City : - Vidhyanagar<br>Fax No. : - 0268¥88998   |
| 17       | Discipleship Centre –<br>World Relief | Maharajshree Kamvan Stephen Houston Add-1: 222,ward 12/c Lilasha Nagar | Director                                      | City : - Gadhidham Phone No. : - 02836-26724 Fax No. : - 02836-30521   |
| 18       | Divine Life- Suchak<br>Hospital       | Anil Suchak<br>Add-1<br>Satsang Hall,186 Manchubhai<br>Road, Malad(E)  |   | Mobile No :- 98240 83435  City : - Mumbai  Phone No. : - 022-8891484  Fax No. : - 022-8890821  E-mail ID : suchak@vsnl.com |
| 19       | Diya Jot Foundation                   | Add-1 Shrima Anantaanand Institute of cancer Opp Munciple Garden Paldi | President                                     | City : - Ahmedabad Phone No. : - 079-6581036 Fax No. : - 0796309880 E-mail : -divyajot@yahoo.com                           |
| 20       | EFICOR                                | D Kennedy Add-1 Parivarthan Building Main Road                         | Manager<br>(Prog)                             | City : - New Delhi Phone No. : - 011-678439 Fax No. : - 011-6784604 E-mail : -eficorhg@vsnl.com                            |
| 21       | ESSAR Ltd                             | K V Sukhdevsinghji Add-1 Premchand House Annexe Asharam Road           |   | City : - Ahmedabad Phone No. : - 079-6580277 Fax No. : - 079-6581917   |
| 22       | FICCI -CARE                           | Amit Mitra /Tom Alcedo Add-1 Federation House Tansen Marg              |   | City : - New Delhi<br>Phone No. : - 011-3315442<br>Fax No. : - 011-3320714 / 6564081                                       |
| 23       | Gems & Jewellery<br>NRF               | Ketan Parikh Add-1 501,Prasad Chambers Tata Road-2 Opera House         |   | City : - Mumbai<br>Phone No : - 022-3634565<br>Fax No. : - 022-3632061   |
| 24       | Ghatkopar Citizen<br>Relief Fund      | J L Parikh<br>Add-1<br>Hirji Bharmal Trust Bldg<br>Mahatma Gandhi Road |   | City : - Mumbai<br>Phone No. : - 022-5163434<br>Fax No. : - 022-515448   |
| 25       | Global Source net                     | RT Buckley Jr  |   | City : - Gandhidham<br>Phone No. : - 0283621524<br>Fax No. : - 02836-34702<br>Mobile No. : - 98211610330                   |
| 26       | Good Samaritians                      | Emil Jebasingh<br>Add-1<br>L-15, Green Park                            |   | City : - New Delhi Phone No. : - 011-6855674 Fax No. : - 011-68555436  |
| 27       | Gospel Of Asia                        | J A George<br>Add-1<br>P O Box:-7, Sunva<br>Tal: Petlad                |   | City : - Anand<br>Phone No. : - 02697-35371<br>Fax No. : - 02697-35784   |
| 28       | Government Of<br>Chattisghar          | Harshad Mehta<br>Add-1<br>Bastar Road Dhamtri                          | MLA &<br>Chairman<br>Bhukamp<br>Rahat Samitti | City : - Chattisghar<br>Phone No. : - 07722-37071<br>Fax No. : - 07722-41020<br>Mobile No. : - 98271-646472                |
| 29       | Government Of Delhi                   | P S Bhatnagar<br>Add-1<br>Delhi Secretariate I P Estate                | CS  | City : - Delhi<br>Phone No. : - 011-3392100<br>Fax No. : - 011-3392102   |
| 30       | Government Of<br>Maharashtra          | R K Bharghav Add-1 5 <sup>th</sup> floor, Mantralay                    | Prin Sec                                      | City : - Mumbai  |
| 31       | Government Of MP                      | Mala Shrivastava<br>Add-1<br>Mantralay Vallabh Bhavan                  | Relief<br>Commissioner                        | City : - Bhopall<br>Phone No. : - 0755-551442<br>Fax No. : - 0755-553574   |

| Sr<br>No | Organisation           | Name & Address                                 | Designation   | Contact Info   |
|----------|------------------------|--|---------------|--|
| 32       | Government Of          | C K Mathews                                    | Sec To CM     | City : - Jaipur                                      |
|          | Rajasthan              | Add-1  |               | Phone No. : - 0141-380934                            |
|          |                        | Mantralay                                      |               | Fax No. : - 0141-380934                              |
| 33       | Govt Of Jharkhand      | Sir  | Chief         | City : - Ranchi                                      |
|          |                        | Add-1  | Secretary     | Phone No. : - 0651-403250/40                         |
|          |                        | Project Bulding HEC                            |               | Fax No. : - 06541-403255                             |
| 34       | Gram Swaraj Sangh      | Rameshbhai Sanghvi                             |               |  |
| 35       | GSPCL                  | Sanjay Gupta                                   | MD            | City : - Gandhinagar                                 |
|          |                        | Add-1  |               | Phone No. : - 02712-36372                            |
|          |                        | 2 <sup>nd</sup> floor,Block 15 Sector 11       |               | Fax No. : - 02712-3637                               |
| 36       | Gujarat Narmada        | A D Desai                                      |               | City : - Bharuch                                     |
|          | Valley Fertilizers     | Add-1  |               | Phone No. : - 02642-7001                             |
|          | Co. Ltd                | Narmada Nagar                                  |               | Fax No. : - 02642-47057                              |
|          |                        |  |               | E-mail : -addesai@gnvfc.guj.nic.in                   |
| 37       | Gujarat Institute Of   | J G Pandya                                     | Gen Secretary | City : - Gandhinagar                                 |
|          | Amateur Radio          | Add-1  |               | Phone No. : - 079-3226574                            |
|          |                        | 299/1,Sec.7A Sector 7A                         |               | Fax No. : - 079-3226574                              |
|          |                        | ,  |               | E-mail : -pandyajg@123india.com                      |
| 38       | Helpage India          | Ashok Rawat                                    |               | City : - Ahmedabad                                   |
|          | Troipage India         | Add-1  |               | Phone No. : - 079-3226574                            |
|          |                        | Samarphan Vidhyapith                           |               | Fax No. : - 079-6756146                              |
|          |                        | Campus Sattelite Road                          |               | Mobile No. : - 98250-12239                           |
| 39       | ICICI Ltd              | Abhitab Chaturvedi                             | Dy GM         | City : - Mumbai                                      |
| 37       | Terer Eta              | Add-1  | Dy Givi       | Phone No. : - 022-653 8309                           |
|          |                        | ICICI Tower Bandra Kurla                       |               | Fax No. : -022-653 1265                              |
|          |                        | Complex Bandra (E)                             |               | E-mail : - <u>chaturvedi@icici.com</u>               |
| 40       | IFFCO                  | US Awasthi                                     |               | City : - New Delhi                                   |
| 70       | 11100                  | Add-1  |               | Phone No. : - 011-6486894                            |
|          |                        | 32,Nehru Place                                 |               | Fax No. : -011-6489376   02836–70648                 |
|          |                        | 32,14cmu 1 facc                                |               | E-mail : -mdoffice@iffco.nic.in                      |
| 41       | Indian Navy            | T S Ganeshan                                   |               | City : - Jamnagar                                    |
| 41       | indian ivavy           | Add-1  |               | Phone No. : - 0288-551053                            |
|          |                        | INS Valsura                                    |               | Fax No. : - 0288-550825                              |
|          |                        | INS Vaisura                                    |               | E-mail : -sparks@wilnetonline.net.in                 |
| 42       | International          | Priyavadhan Shah                               | Chairman      | City : - Mumbai                                      |
| 42       | Institute for          | Add-1  | (Gujarat)     | Phone No. : - 022-2045758                            |
|          | Sustainable Future     | 73-A Mittal Towers                             | (Gujarat)     | Fax No. : - 022-2871250                              |
|          | Sustamable Future      | Add-2  |               | E-mail : -iisfb@giasbmo1.vsnl.net.in                 |
|          |                        |  |               | E-mannsro@grasomor.vsm.net.m                         |
| 12       | J B Chemical           | Nariman Point                                  |               | City : - Mumbai                                      |
| 43       | & Pharmaceutical       | J B Mody                                       |               |  |
|          | & Fharmaceutical       | Add-1<br>Neelam Centre, B-wing 4 <sup>th</sup> |               | Phone No. : - 022-4930918<br>Fax No. : - 022-4930534 |
|          |                        |  |               |  |
| 11       | Ini Dunlanda I J4      | floor Hind Cycle Road,warli Rakesh Sharma      |               | E-mail : -mody@jbcpl.com                             |
| 44       | Jai Prakash Industries |  |               | City : - Bharuch                                     |
|          |                        | Add-1  |               | Phone No. : - 02640-32060                            |
|          |                        | Narmada Project Kevadia                        |               | Fax No. : - 02640-32160                              |
| 4.7      | T ' . TTI TTT' '       | Colony   |               | E-mail : -   |
| 45       | Jamiat Ulama I Hind    | Maulana A Madni                                |               | City : - New Delhi                                   |
|          |                        | Add-1  |               | Phone No. : - 011-                                   |
|          |                        | 1, Bahadur Shah Jafar Marg                     |               | Fax No. : -  |
|          |                        |  |               | E-mail : -   |

**GOVERNER CABINET OF MINISTERS** CONGRESS CHIEF MINISTER CHIEF SECRETARY TO GOVERNMENT MINISTER MINISTER MINISTER PRINCIPAL SECRETARIES SUPPORTTED BY JOINT JOINT/DEPUTY/UNDER FINANCE DEPT. EDUCATION DEPT. MEDICAL DEPT. COMMISSIONERS ADD DIRECTORS ADD. DIRECTORS STATE PROJECT DIRECTOR JOINT DIRECTORS DIRECTOR (DPEP) JOINT DIRECTORS SECTION OFFICERS DISTRICT STRUCTURE COLLECTOR & DISTRICT MAGISTRATE ENGINEERING COLLEGE ADD. COLLECTORS POLYTECHNIC DISTRICT CHIEF DISTRICT OFFICER DEVELOPMENT OFFICER PHARMACY COLLEGE DISTRICT HIGHER DISTRICT PRIMARY VOCATIONAL TRAINING Cr. **EDUCATION OFFIER EDUCATION OFFICER** TALUKA & MUNICIPALITY **TALUKA** MAYER OF **OFFICER** MUNICIPALITY VILLAGE MUNICIPALITY

COMMISSIONER

OFFICER

Fig.-A-1 Organizational Chart of State Government Administration

GOG GOJ CHIEF MINISTER FINANCE DEPT. JICA EDUCATION DEPT. MEDICAL DEPT. PRINCIPAL **SECRETARY SECRETARY SECRETARY** COMMISSIONERATE COUNCIL OF DIRECTORATE OF OF HEALTH, MEDICAL PRIMARY **TECHNICAL** SERVICE AND **EDUCATION EDUCATION MEDICAL** PROJECT TEAM FOR THE RECONSTRUCTION SUPPORT FOR THE GJARAT – EARTHQUAKE STATE PROJECT DIRECTORS DIRECTORS DISASTER IN INDIA DIRECTOR ADD. DIRECTORS ADD. DIRECTORS (DPEP) joint joint DISTRICT STRUCTURE COLLECTOR & DISTRICT MAGISTRATE ADD. COLECTORS DISTRICT DISTRICT DEVELOPMENT OFFICER PLANNING OFFICER DISTRICT DISTRICT PRIMARY HEALTH OFFICER **EDUCATION OFFICER** TALUKA (SUB-DISTRICT) STRUCTURE DEPUTY MUNICIPAL **OFFICER** COOPERATION KUTCCH **COMMISSIONER** TALUKA ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL **MEDICAL OFFICER OFFICER OFFICER OFFICER OFFICERS** RAPAR ANJAR BHACHAU BUHJI

Fig.-A-2 Organizational Chart of Project Implementation

Fig.-A-3 Working Group as Counterpart to JICA Project Team

| CHIEF CORDINATER FOR WORKING GROUP<br>MEMBER SECRETARY OF THE WORKING GOUP | AVINASH JOSHI, DIRECTOR (DPEP)<br>M.N. BHAD, SECRETARY (DPEP)   |
|--|---|
| MEMBER OF THE W.G.   | R.N. SHAH, JOINT DIRECTOR,<br>COMMISSIONERATE OF HEALTH & MEDICAL SERVICES  |
| MEMBER FROM DISTRICT   | P.T. PANDYA, DISTRICT PRIMARY EDUCATION OFFICER,<br>KUTCCH<br>D.P. SOLANKI, DISTRICT HEALTH OFFICER   |
| MEMBER FROM KUTCCH   | M.A. SAIYED, DEPUTY DISTRICT DEVELOPMENT<br>OFFICER   |
| MEMBERS FROM TALUKAS   | MANUBHAI PATEL, ADDITIONAL PLANNING OFFICER, PAPAR N.K. RAVAL, ADDITIONAL PLANNING OFFICER, ANJAR I.M. PATEL, ADDITIONAL PLANNING OFFICER, BHACHAU N.A. HARYANI, ADDITIONAL PLANNING OFFICER, BUUJI |

| MEMBERS FROM TALUKAS | TALUKA MEDICAL OFFECERS |  |
|----------------------|-------------------------|--|
|                      |                         |  |