

APPENDIX - A13.1

**Minutes of the Meeting
of the Steering Committee
Held on February 28, 2007,
in P & D DEPTT., Govt. of Sindh,
to Review Progress Report No.2 on Master Plan
for Water Supply and Sewerage System
in Karachi
under JICA Assistance**

A13.1 Minutes of the Meeting of the Steering Committee Held on February 28, 2007, in P & D DEPTT., Govt. of Sindh, to Review Progress Report No.2 on Master Plan for Water Supply and Sewerage System in Karachi under JICA Assistance

**OFFICE OF THE PROJECT COORDINATOR, JICA STUDY TEAM
KARACHI WATER AND SEWERAGE BOARD
1st Floor, KWSB Training Centre, 9th Mile Karsaz, Karachi.**

Ref: No.: SE/137/ESH/207/SS

Dated: 2nd May 2007

The Chairman,
Steering Committee / ACS (Dev) GoS, Karachi

The City Nazim
City District Government, Karachi.

The Secretary,
Local Govt., GoS, Karachi.

The District Coordination Officer
City District Government, Karachi.

The Chief (Foreign Aid)
P&D Department, GoS, Karachi.

The Special Secretary
P&D Department, GoS, Karachi.

The Managing Director
Karachi Water & Sewerage Board, Karachi.

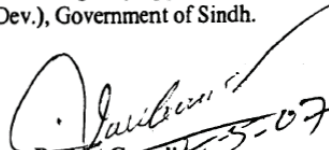
The EDO (Master Plan)
City District Government, Karachi.

The Chief Engineer (Projects)
KWSB / Secretary, Steering Committee, Karachi

The Chief (PP&H)
P&D Department, GoS, Karachi.

**SUB: MINUTES OF THE MEETING OF THE STEERING COMMITTEE HELD ON
FEBRUARY 28, 2007, IN P & D DEPTT., GOVT. OF SINDH, TO REVIEW
PROGRESS REPORT NO.2 ON MASTER PLAN FOR WATER SUPPLY
AND SEWERAGE SYTEM IN KARACHI UNDER JICA ASSISTANCE**

Enclosed, please find herewith, the minutes of the subjected meeting duly approved by the Chairman Steering Committee / Additional Chief Secretary (Dev.), Government of Sindh.


Project Coordinator,
JICA Study Team /
SE (BWSC), KWSB

Encl: As above

C.C.:

1. The Addl. Chief Secretary, (Irrigation & Power), GoS, Karachi.
2. The Dy. Managing Director (Planning), KWSB, Karachi.
- ✓ 3. The Team Leader, JICA Study Team.

MINUTES OF SECOND MEETING OF THE STEERING COMMITTEE FOR MASTER PLAN OF WATER AND SEWERAGE SYSTEM OF KARACHI UP TO 2025 BEING PREPARED BY THE JICA STUDY TEAM WAS HELD ON 28TH FEBRUARY, 2007 IN THE COMMITTEE ROOM OF P&D DEPARTMENT, GOVERNMENT OF SINDH.

1. The second meeting of the Steering Committee for Master Plan of Water and Sewerage System of Karachi up to 2025 being prepared by the JICA Study Team was held on 28th February 2007 in the Committee Room of P&D Department, Government of Sindh. The Additional Chief Secretary, (Dev.), GoS, Mr Ghulam Sarwar Khoro, chaired the meeting. The list of participant is attached as Appendix-1.
2. Welcoming the participants, the Chairman, Steering Committee, appreciated the Team Leader, JICA Study Team, Mr. Sawara, and asked to present the Progress Report No. 2.
3. Mr. Sawara displayed the schedule and reminded the participants that the JICA Study Team had already prepared and presented the Inception Report and Progress Report No. 1 and the Progress Report No. 2 was being presented. The Interim Report, Draft Final report and the Final report would follow.
4. After the presentation, the Managing Director, KWSB, Brig. Iftikhar Haider, initiated with his reservation that the Progress Report No. 2, had not been discussed with KWSB prior to this presentation. Also, he and his team had not sufficient time to analyze and to authenticate the same with or without modification. He requested to defer the meeting till it was examined and endorsed by the KWSB.
5. Quoting to a news item in the daily Dawn, Karachi, dated: 14th Feb. 2007, which says "leakages account for 45% wastage", the Managing Director, KWSB, informed the participants that the KWSB had been asked by the Federal Government to communicate the exact quantum of leakages. He further said that exactly the same figure was given in the Progress Report No. 2 without confirmation of KWSB. Due to this reason KWSB had not circulated this document to other stakeholders.
6. The Managing Director, KWSB, pointed out the figures like the 35% water losses and "need of 1200 cusecs of water by 2025" have no rationale and without carrying out exercise / supporting document confirming to their suspicion that the report was just a passing reference based on hearsay and not on concrete study and investigations.
7. While referring to the item No. 9 of the minutes of last meeting of the Steering Committee held on 2.10.2006 about lack of coordination, the Managing Director, KWSB, pointed out the same problem still exists and the ADB has complained that the JICA Study Team was not cooperating with them. He said he would like to put on record that the ADB has reported to him that JICA was not listening to them and not sharing the information with them. Responding to their position at the end of the meeting, the Team Leader, JICA Study Team distributed the "Records of Meetings with ADB & its consultants" and stated that the ADB had asked for the Progress Report No.2 which was not possible for them to hand over prior to its approval from the Steering Committee.



8. Regarding the presentation on sewerage, the Managing Director, KWSB, reminded the participants of the short time available for going through the report thoroughly. He further requested to defer the Progress Report No. 2 till the next meeting, so that the KWSB may have sufficient time to analyze the report carefully.

9. The EDO (MPGO), CDGK, Mr. Iftikhar Kaimkhani, pointed out that during the presentation it was stated that three towns (Keamari, Gadap and Bin Qasim) would accommodate 94% of the projected population by 2025. He was of the opinion that based on the previous trend of population expansion in Karachi and experiences of Shah Latif Town, Scheme-33, Gulistan-e-Jauhar, etc., it was very likely to see the increase in density of the existing city area. He also expressed that there would be no two cities by the end of 2025 but present City will expand only.

10. Director (M&E), Local Govt. GoS, Dr. Capt. Sikandar Panhwar, questioned the figure of 15.12 million quoted as the current population of the city. He requested that the figure should be revisited as the government had a different figure in its record. He expressed his agreement with the point of view of the EDO (MPGO), CDGK, that it was not likely to have (as much population as) two cities by the year 2025. He apprised the participants that the Government of Sindh had a "City Development programme" for secondary Cities. And in consequence, if other cities would be developed and would have good facilities and infrastructures, then, the rate of influx to Karachi would be less than expected and presented in the report.

11. Director (M&E), Local Govt. GoS, requested to review the figure stated as "Total Capacity of 4 Sewerage Treatment Plant" (Slide No. 48) and waste calculated against "Raw Water for the System" (Slide No. 33). He said it does not seem to be correct and should be calculated on 60% basis.

12. While requesting the Addl. Secretary, Irrigation & Power Department, the ACS (Dev.), P&D, GoS, / Chairman of Steering Committee, Mr. Ghulam Sarwar Khoro, apprised the participants of two important points that prompted him to invite a representative of Irrigation Department:

- (i) This was important to know the possibility of obtaining additional 1200 cusecs of water from Indus resource. If not, what other scenarios, harnessing of torrential waters or seawater water desalination?
- (ii) If we were talking about Indus water, which was under Sindh Irrigation Authority. Now they have 14 Water Boards and 3 Water Boards in next 3-4 years. They were working to take all rivers in Sindh under their control. So they are going to charge for this water. This aspect should also be borne in mind while carrying out Master Plan Study.

13. The Additional Secretary, Irrigation & Power Department, Mr. Mazhar Ali Shah, informed the participants that they were already providing 1200 cusecs of water to Karachi and it would be difficult for them to enhance the quota. The Federal Govt.'s approval was needed. He requested the KWSB to explore other sources for water.

14. The Chief (PP&H), Planning & Development Department, Mr. Khalid Mahmood Siddiqui, asserted that the feedback of KWSB was most important. He



agreed with the point of view of the Managing Director, KWSB, that lack of coordination does exist. The fact that the all members of Steering Committee did not get the copies of the Progress Report was the example of lack of coordination. Similarly, coordination between the agencies conducting other studies for KWSB also needs to be established. He suggested that KWSB may act as coordinator. The Managing Director, KWSB, requested for Local Govt. Department; but on insistence of Director (M&E), LG department, GoS, the Managing Director KWSB agreed with his suggestion.

15. The Chief (PP&H), Planning & Development Department, further reminded that the minutes of the last meeting of the Steering Committee had asked to include stakeholders and few other members to the Steering Committee. But the case for issuing the notification was still lying with the Local Government Department, GoS, after the draft was prepared by the KWSB. He requested the Director (M&E), Local Govt. Department, GoS, to expedite the case.

16. The Chairman, Steering Committee, Mr. Khoro, said that he has heard the remarks and comments of all the participants. There was not enough time to respond. He requested the participants to give their suggestion in writing so that the Progress Report No. 2 comes with consensus of KWSB and JICA and then re-discuss, possibly in 3 weeks time.

17. After a detailed discussion to hold meeting to incorporate the comments of the KWSB, it was decided that within the next two days there will be two consecutive meetings to hear and listen from both, KWSB and JICA Study Team to identify the shortcomings of the Progress Report No. 2 and resolve / prepare modified Report with joint consensus. Then this finalized report will be circulated to other members of the Steering Committee. The next meeting of the Steering Committee will be held in 3rd week of April 2007 after they receive the joint consensussed Progress Report No. 2.



APPENDIX - A13.2

**Minutes of the Follow-up Meetings
Held on 1st and 2nd March 2007
to Review Progress Report No.2
on Master Plan
for Water Supply and Sewerage System
in Karachi
under JICA Assistance**

A13.2 Minutes of the Follow-up Meetings Held on 1st and 2nd March 2007 to Review Progress Report No.2 on Master Plan for Water Supply and Sewerage System in Karachi under JICA Assistance

**OFFICE OF THE SUPERINTENDING ENGINEER (BWSC)
KARACHI WATER AND SEWERAGE BOARD
Block-B, 9th Mile, Karsaz, Sharae Faisal, Karachi.**

Ref: No.: KWSB/JICACoord/2007/35

Dated: 5th May 2007

The City Nazim

City District Government,
Karachi.

The District Coordination Officer

City District Government,
Karachi.

The Chief (Foreign Aid)

P&D Department, GoS,
Karachi.

The Special Secretary

P&D Department, GoS,
Karachi.

The Managing Director

Karachi Water & Sewerage Board
Karachi.

The EDO (Master Plan)

City District Government,
Karachi.

The Chief (PP&H)

P&D Department, GoS,
Karachi.

SUB: MINUTES OF THE FOLLOW UP MEETINGS HELD ON 1ST & 2ND MARCH 2007 TO IDENTIFY THE SHORTCOMINGS OF THE PROGRESS REPORT NO. 2 OF MASTER PLAN STUDY CONDUCTED JICA STUDY TEAM AND TO RESOLVE / PREPARE MODIFIED REPORT WITH JOINT CONSENSUS.

Enclosed, please find herewith, the minutes of the meetings held on 1st & 2nd March 2007 as follow up to identify the shortcomings of the Progress Report No. 2 of Master Plan Study conducted JICA Study Team and to resolve / prepare modified Report with joint consensus, as per item No. 17 of minutes of the Steering Committee meeting held on 28th February 2007, approved by the Chairman Steering Committee / Additional Chief Secretary (Dev.), Government of Sindh.

5/5/2007
**Dy. Project Coordinator,
JICA Study Team /
Director Training, KWSB**

Encl: As above

C.C.:

1. The Chairman, Steering Committee / Addl. Chief Secretary (Dev.), GoS, Karachi.
2. The Dy. Managing Director (Planning), KWSB, Karachi.
3. The Secretary, Steering Committee / CE (Projects), KWSB Karachi
- ✓ 4. The Team Leader, JICA Study Team.
5. The Project Coordinator, SE (BWSC), KWSB.

FOLLOW UP MEETING ON PROGRESS REPORT NO. 2 (1.3.2007)

A follow up meeting of the KWSB Team and the JICA Study Team, was held in the Committee Room of MD Secretariat, at 2:00 p.m. on 1st March 2007, to review the Progress Report No. 2 (water and institutional strengthening parts) which was presented in the Steering Committee a day earlier. The Managing Director, KWSB, chaired the meeting.

Following participants were there:

1. Brig. Iftikhar Haider
The Managing Director, KWSB
2. Mr. Mohammad Suleman Chandio
The DMD (Planning), KWSB
3. Mr. Mashkoor ul Hasnain
The CE (Projects), KWSB
4. Mr. Sadanobu Sawara
The Team Leader/Water Supply Planning, JICA Study Team
5. Mr. Takehiko OGA
The Dy. Team Leader/Water Supply Facility Planning I, JICA Study Team
6. Mr. Tony De Seta
Water Services Operation & Management, JICA Study Team

1. The Managing Director, KWSB welcomed the JICA Study Team and desired for a whole hearted honest feedback from both sides on the issues to be identified, settled and incorporated in the Progress Report No. 2.

2. The Managing Director, KWSB, informed the JICA Study Team that it is better to add 2 weeks before the Steering Committee meeting is held to review the Draft of Progress Report No. 2. This addition of two weeks would require for detailed analysis of reports prior to placing before Steering Committee meetings in future. Mr. Tony De Seta of JICA Study Team offered to work closely during the period to save this time. The Managing Director appreciated the offer.

3. While explaining the need to incorporate KWSB's point of view in the Progress Report, the Managing Director, KWSB, requested to consider the KWSB as their main client and sponsor of the Study, as the JICA is merely a funding agency on behalf of KWSB. The Team Leader informed that he will have to discuss this issue with JICA HQ.

4. Due to time constrain, the Managing Director, KWSB, handed over a questionnaire of KWSB to the Team Leader (07 pages), identifying the issues which need to be gone through / addressed by JICA Study Team and then the same may be discussed with the Managing Director, KWSB, or the DMD (Planning), KWSB, to incorporate into the Draft Progress Report No. 2 Master Plan with consensus of KWSB.

5. The Managing Director, KWSB, pointed out few issues which must be well researched and thoroughly investigated before putting into the Master Plan.

(i) The Managing Director, KWSB, asked about the justification of the figures that whether there is a formula or method to calculate the %age of water loss through leakages. The Team Leader informed that it is not possible to measure the %age of leakages. After detailed discussion, he agreed to talk to JICA HQ to have a project to undertake study for near-to real measurement of leakages by using the portable Flow Meter at the ends of Bulk water supply and retail distribution and represent the figures in Master Plan based upon this study.

(ii) The Managing Director, KWSB, asked for the rationale / exercise in support of putting 1200 cusecs as the demand of water as per WHO standards and may be elaborated the demand / actual requirement. He clearly told that availability of bulk water shall not be declared as demand / requirement. As a matter of fact, the projected requirement may increase to 1200 cusecs or even decrease if it actually worked out at minimum WHO standards. He asked the Team to calculate and suggest the per capita requirement of water on the basis of condition and habitual trends of usage of water in various segments of population in Karachi like Kutchi Abadies, Industrial and Residential zones. The current per capita consumption of various third world countries and especially Asian countries may also be taken into consideration for this purpose.

(iii) This was advised that we may explore the possibilities of Storage Reservoir other than Kinjhar Lake for storage / settled water. Suggestion for a separate study to explore locations like Hadero Lake, etc., which may be incorporated in the Report.

(iv) The Managing Director, KWSB, advised not to include the map Location of the Proposed Filtration Plants of K-IV Project as the alternate route is not yet approved by the govt.

(v) Referring to the area selected for DNI, the Managing Director, KWSB, appreciated the criterion for the selection and requested to include some more towns but all the services of water supply, sewerage, drains, recovery, etc., shall be taken into account to really be symbol of improved service delivery, cost recovery and all other aspects, including institutional strengthening as a financially sustainable organizational set-up.

(vi) The Managing Director, KWSB, desired that all the data of plots / water and sewerage utility requirements shall be obtained from LDA, MDA and other Cantonment Boards to incorporate in Master Plan. It was informed that the In-charge Officer (Land & Estate) will deliver the papers, plans and requirements of various developing schemes of LDA, MDA, etc., to JICA so that they may verify whether the same has been included in the Report or not? The Deputy Team Leader informed that he is waiting for final population projections of Towns and UCs.

(vii) The Managing Director, KWSB, suggested to consider Hilly / high mountains for identification of Main Storage reservoirs, like COD, that will help KWSB to avoid pumping stations to save energy and O&M expenses as main suggestions / target achievements.

(viii) Regarding Hydraulic based boundaries the Team Leader informed that commercial / corporate style management is not possible Town-wise. To monitor the Town-wise quantum assessment of Bulk water supply, the Flow Meter will be used. The Managing Director, KWSB, advised to incorporate the same with clarity / details in the report.

- (ix) Regarding structure of Governance of Board the Managing Director, KWSB, asked to give 3-4 options for the shape of the board and not only one as suggested in the report. He emphasized to elaborate the upper level of the structure and asked to suggest something practical about the governance issue as many of the installations and land are with agencies other than CDGK.

Finally, all the observations / comments need to be answered / commented upon and included in the Progress Report No. 2 before its finalization.

FOLLOW UP MEETING ON PROGRESS REPORT NO. 2 (2.3.2007)

Another follow up meeting of the KWSB and the JICA Study Team, was held on next subsequent day on 2.3.2007 at 4:00 p.m. in the Committee Room of MD Secretariat, to review the Progress Report No. 2 (sewerage part) which was presented in the Steering Committee on 28th Feb 2007. The Managing Director, KWSB, chaired the meeting.

Following participants were there:

1. Brig. Iftikhar Haider
The Managing Director, KWSB
2. Mr. Mohammad Suleman Chandio
The DMD (Planning), KWSB
3. Mr. Mashkoor ul Hasnain
The CE (Projects), KWSB
4. Mr. Sadanobu Sawara
The Team Leader/Water Supply Planning, JICA Study Team
5. Mr. Tony De Seta
Water Services Operation & Management, JICA Study Team
6. Mr. Masakazu Nakao
Sewerage Facility Planning I, JICA Study Team
7. Mr. Kunimasa Izumi
Sewerage Facility Planning II, JICA Study Team

1. The Managing Director, KWSB, enquired the Sewerage Engineer, Mr Nakao, about the standards used in the report. Mr Nakao conformed that they have used National Environmental Quality Standards (NEQS). The Team Leader, Mr. Sawara explained further that WHO standards are for water quality while for sewerage treatment, each country uses its own standards. The Managing Director, KWSB, requested to stick with these standards and asked the CE (Project) to direct the Chief Chemist, KWSB, to provide relevant standards to the JICA Study Team.

2. The Managing Director, KWSB, desired to know the methodology, the JICA Study Team has used to calculate the amount of sewage generated. Mr. Nakao informed that he had first deducted 45% loss from the amount that is given in the Water part of the report. Then he calculated on 70% basis. He said that after meeting with the DMD (Planning), KWSB he has now calculated with 60% of Bulk production but the result is almost the same. The Managing Director reminded him to review the quantity as per technological requirement / document supportive in the light of the discussion held with the Team Leader, JICA Study Team, a day earlier, regarding the demand of water to calculate on actual requirement and not on the basis of availability of bulk water. That figure, then, should be applied for all other calculations and projections in sewerage sector.

3. Since there are many areas under the control of other constituent bodies / agencies hence, the Managing Director, KWSB, requested to consider the quantity of effluents from all the areas of the City District as a whole. It appears that in the Progress Report only the DHA and Cantonments have been taken into account.

4. The Managing Director, KWSB, reminded the participants of the fact that there is a difference between the effluents of residential units, and the industrial unit. Therefore, these should have been calculated separately, and not as a whole, because the technologies to treat those are different. Mr. Sawara said they will have to confirm this with JICA TOR; if it is not there, they will request JICA HQ to incorporate this part. After detailed discussion on the issue, Mr. Sawara agreed to recommend in the Progress Report that each industrial unit should have its own primary treatment facility. In case they do not have it, a combined facility may be provided to industrial areas and the industrial units of each area will have to share the cost in Capital and O&M Costs of respective Combined Effluent Treatment Plant.

5. The Study, apparently, focuses on effluent of TPs and could not take into account the effluent going directly into the sea through drains and nallahs. The Managing Director, KWSB, requested to consider and incorporate this aspect as well and ensure that they meet the overall BOD (treated and un-treated sewage) quantum as per requirement of NEQS. The assimilative capacity of receiving body of sea may also be highlighted to assess required BOD value of discharge acceptable including need of further Sewerage Treatment Plants, if required.

6. The JICA Team was also requested to consider to include Intermediate TPs in the DNI. These may be planned for facility on small scale to be operated as DNI project similar to the suggestions made in water sector. At a later stage, during the discussion, the Managing Director, KWSB, further requested the Study Team to visit the suggested DNI Areas for reviewing the suggestions with the perspective of sewerage facility, when they will return back in last week of April.

7. With reference to the point No. 4.2.1. of the Progress Report, regarding "Sewerage and Drainage" the Managing Director, KWSB, requested to also include Drains (also being sewage carrier) in Master Plan and they shall also identify the areas where, the report indicates, the discharge of sewage to roads and/or open spaces, so that KWSB can take corrective measures immediately. Mr. Nakao informed that he observed it one place only. On exploring the issue further, it appeared that the same was the problem of overflow in sewerage pipes rather than any normal discharge route.

8. It was found that Rehabilitation and/or Increase in Capacity of existing Pumping Stations are not covered in the report. The Managing Director, KWSB, requested the JICA Study Team to see whether a study to deal with this subject is possible in the outsourcing contract?

9. During the discussions, it was felt that Mr. Nakao was emphasizing the projections for the year 2025. The Managing Director, KWSB, requested to put the figures showing the incremental projections, for example, year 2015, 2020, etc, as well, because the projects can only be developed incrementally to be cost effective.

Finally, all the observations / comments need to be answered / commented upon and included in the Progress Report No. 2 before its finalization.