COMPREHENSIVE IMPROVEMENT PROGRAM
ICWD Water Supply System

OUTLINE FACTS

March 09, 1998, LWUA entered into a contract with C. Lotti & Associati, Societa di Engegneria S.P.A. in asso. with Renardet S.A., Schema Konsult, Inc., DCCD Eng'g Corp., Eng'g & Dev't. Corp. of the Phils., Test Consultants, Inc., Technological Alternatives Consultants, Inc. for consultancy services required for the STWSSP covering 80 towns nationwide partially funded by the national government under a loan from ADB #1472-PHI. The consultants are to review & update technical feasibility studies & prepare the detailed design of about 20 sub-projects identified by LWUA including ICWD that began on Jan. 18, 1999.

EXISTING WATERWORKS FACILITIES OF ICWD

Source facilities composed of 3 springs with pumping stations & 2 deep wells (Perpetual Help & Sta. Teresita) with a total capacity of 157 lps; 440 cum ground reservoir at Boguitis, San Roque; four 1.5 hp booster pumps; 61.97 km distribution lines with diameter ranging from 50 to 200mm; 3 chlorination facilities; 36 valves; 26 fire hydrants. Non-Revenue Water of 24%.

SERVICE AREA

Eight (8) central barangays, parts of 7 brgys. outside the urban area incldg. Sta. Teresita. The proposed improvement will serve 6 additional in the river area: La Medalla, La Trinidad, Salvacion, Sto. Niño, La Anunciacion & San Antonio making a total of 21 barangays.

POPULATION

1995 NSO census reveals Iriga City has a population of 82,482 w/ a growth rate of 2.122%. December, 1998 estimated service area population is 35,836. By year 2010, estimated total served pop'n is 57,654.

SERVICE CONNECTION

By year 2010, total service connection is estimated @ 10,532.

WATER DEMAND

Estimated to increase from 11,238 cumd in 1996 to 27,198 cumd by 2010 or 314.80 lps on peak hour demand. (cumd-cubic meter per day).

PROPOSED FACILITIES & IMPROVEMENTS

PHASE 1

1. Drilling of 2 wells & construction of pump houses
2. Installation of 1 pump @ MPS w/ pump house
3. Construction of 552 cum concrete ground reservoir
4. Inst. of approx. 58 km pipelines varying from 50-300mm
5. Inst. of 970 service connections
6. Inst. of 84 valves
7. Inst. of 19 fire hydrants
8. Inst. of 3 flow meters
9. Provision of one generating set
10. Const. of 6 line booster pump houses
11. Const. of 6 booster pump reservoirs w/ a total vol. of 148 cum.

PHASE 2

1. Const. of 1,088 cum concrete ground reservoir
2. Inst. of 1 additional pump @ BPS
3. Inst. of 5 booster pumps
4. Inst. of 12.6 km distribution lines varying from 50-250mm dia.
5. Inst. of 18 fire hydrants
6. Inst. of 14 valves
7. Inst. of 345 new service connections
8. Inst. of one 100mm flowmeter @ BPS
9. Const. of one line booster in Sto. Domingo
10. Const. of 5 booster pumps w/ a total vol. Of 52 cum

INSTITUTIONAL DEVELOPMENT

1996 feasibility study final draft is still recommended. An increase of personnel from 50 to 88 in 2010).

COST OF DEVELOPMENT

Phase 1-P54.314.7 Million; Phase 2-P17.110.4 Million Total-P71.425.1 Million (basic construction cost) consisting of P45.472 Million in local component & P25.953 in foreign exchange component less works already constructed as anticipated implementations evaluated @ P4.897 Million totaling P66.528 Million.

FINANCIAL FEASIBILITY

ICWD equity of P7.307 Million in cash & P4.897 in completed works funded by ICWD.

LAND ACQUISITION

A total of 1,895 sqm. e.g., 36 sqm for the emergency storage area, 60 sqm for the proposed well site @ GPS & 935 sqm for the line booster pumping stations

OTHER FACILITIES

9 proposed pumping houses (2 in GPS, 1 in MPS & 6 line booster pumps four of which with standby pumps.