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LIST OF ABBREVIATIONS

BOD  Biochemical Oxygen Demand
COD  Chemical Oxygen Demand
DBL  Design/Build/Lease
DD   Detailed Design
DPWS Department of Potable Water Supply
DPWT Department of Public Works and Transport (Municipality)
EA   Environmental Assessment
EEA  Environmental Examination Application
EIA  Environmental Impact Assessment
EMIP Environmental Mitigations Plan (part of an EMP)
EMoP Environmental Monitoring Plan (part of an EMP)
EMP  Environmental Management Plan
FS   Feasibility Study
FT   Fraser Tomas (Engineering Consultants)
GHD  Gutteridge, Haskins & Davey (Engineering Consultants)
IEIA Initial Environmental Impact Assessment
JICA Japan International Cooperation Agency
LCPSS Low Cost Pilot Sewerage System
Lpcd Liters per capita per day
Mg/l Milligrams per liter
MIME Ministry of Industry, Mines, and Energy
MoA Ministry of Agriculture
MoE  Ministry of Environment
MPP  Municipality of Phnom Penh
MWRM Ministry of Water Resources and Meteorology
MPWT Ministry of Public Works and Transport
NGO  Non Governmental Organization
PCD  Pollution Control Department (Ministry of Environment)
PG   Provincial Government
PMU  Project Management Unit
PO   Project Owner
PPWSA Phnom Penh Water Supply Authority
PPUWSSP Provincial and Peri-Urban Water Supply and Sanitation Project
RGC  Royal Government of Cambodia
ToR Terms of Reference
TSS  Total Suspended Solids
WB   World Bank
WHO  World Health Organization
WSS  Water Supply and Sanitation
WTC  Willingness to Connect
PROJECT SUMMARY

General
The purpose of the Environmental Assessment is to identify and evaluate the significance of any potential environmental impacts on the proposed construction and development program for a new water supply system for Prasat (District of Kampong Trabaek, Prey Vieng Province) and to recommend avoidance, preventive and mitigation measures to ensure that residual environmental impacts are acceptable and are within the applicable limitation standards prescribed by the Ministry of Environment and the World Bank.

The Local Government of Prasat has initiated the current project, with support of the Provincial Government of Prey Vieng and the Department of Potable Water Supply (DPWS) of MIME. The actual ‘Project Owner’ is the Ministry of Industry, Mines and Energy.

Project description
Based upon the evaluation of the various options for a possible water supply scheme, MIME, with support of the Engineering Consultants GHD/FT, has prepared a viable project proposal. The project will provide piped water supply for a population estimated at 7,091 persons, with service initially to some 51 to 60 percent of the population within the service area at 40 l/cd, increasing to 60 l/cd and serving 90 percent of the population in the service area. Preliminary calculations indicate a required water demand (ADP) of 353 m3/day.

Groundwater will be abstracted via deep bores. The necessary treatment will be applied to comply with Cambodian drinking water quality standards. A treatment plant will be located on the land identified by the District and Commune at the southern extremity of the town. Treatment comprises aeration and disinfection. Water will be pumped from the clearwater tank through a booster pump into the network system serving the town. A single metered connection will be provided to each house, where it is assumed that household “water jar” storage will continue to be used.

No resettlement will be required.

Land Acquisition
The scheme is based on three boreholes sited in open fields to the north of the market. The treatment plant will be located on the nearby vacant land which the Commune has indicated will be available for the scheme.

The land for the proposed wells and pumping stations should be made available by the commune (or purchased) with official documentation as soon as the locations of well and treatment plant are confirmed by the private operator.

The land required is estimated ....m2. The acquisition of land will be facilitated by MIME as part of their responsibility to the project. If possible, the PMU representative will facilitate the issuance of “Deed of Donation” or statements on the willingness to sell prior to the construction to avoid any conflict with the lot owner.