

**SOLUTION FOR NATIONAL WATER SUPPLY &
DRAINAGE BOARD CUSTOMERS' PROBLEMS
IN COLOMBO CITY**

SAMBASIVAM LETCHUMANAMOHAN



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Master of Business Administration in Project Management

Department of Civil Engineering

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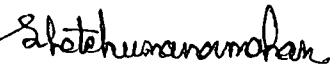
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Abstract

Clean and adequate water is a basic and fundamental requirement of human beings. Focusing on customer requirement is particularly important, where several alternative sources and service providers are available. Customer satisfaction and good customer relationships are important in any business, which is also applicable to the NWS&DB in spite of state monopoly. A satisfied customer would assist by informing any pipe leaks in the distribution system and house connection promptly. This research aims to access the customer satisfaction levels of the NWS&DB customers, identify problems faced by the customers and suggest solutions in order to improve the intuitional and operational system. A questionnaire survey was conducted in 36 householders in Colombo South area who had complained to the NWS&DB.

The important problems identified in the customer's survey are insufficient pressure in the distribution system, inaccurate meter reading, delay to attend repair work and poor quality of repairs. The relevant NWS&DB Engineers were interviewed to collect reasons for the above mentioned problems and the following important human resources management problems were identified.

- Lack of self interest in the repair gangs
- Lack of authority/ funds, to procure sufficient number of equipment

The important reasons for the customers' problems include

- Minimum accountability of repairs as large number of the site gangs carry out the repair works in the whole city rather than a small number attending a specified area.
- Minimum proactive maintenance and repairs are carried out by the existing O&M section, due to lack of motivation
- At present the numbers of repair gangs are insufficient. The problem is worsened due to police requirement to carry out night work.

The important reasons for all customers' problems were analyzed in order to propose a feasible management option on par with the available industry practices. The solution for the problems is recommended as both long term and short term. As a long term solution, decentralization of repairs and O&M of distribution system, and an incentive scheme in order to motivate the workers have been recommended. In order to solve the immediate problem the recommended short term solution is outsourcing of development works and excess activities for which available staff are inadequate. Further recommendations have been made to improve meter reading activity.

Keywords: customers' problems in water supply distribution, management of water supply distribution.

Contents

Declaration of the candidate & Supervisor	i
Acknowledgements	ii
Abstract	iii
Table of content	iv
List of Figures	vi
List of Tables	vi
List of abbreviations	vii
List of Appendices	viii
1.0 INTRODUCTION	1
1.1 Background	1
1.2 Description of the Present Problem.....	2
1.2.1 Condition of NRW in Colombo.....	5
1.2.3 Description of the Problem.....	6
1.3 Significance of NRW in Water Supply Section	8
1.4 Research Questions.....	9
1.5 Research Objectives.....	10
1.6 Methodology.....	10
1.7 Scope of study and limitations.....	11
1.8 Chapter Breakdown	12
2.0 LITERATURE REVIEW.....	13
2.1 Customer Expectations / Behaviour	13
2.1.1 Customer Relations.....	13
2.1.2 Customer Satisfaction	13
2.1.3 Water Quality and its Perception.....	14
2.1.4 Quantity of water used compared to income	16
2.2 Management Options	19
2.2.1 Public Sector Operation	20
2.2.2 Private sector participation	21
2.2.3 Private Sector Performance & Trend.....	22
2.2.4 Private Public Partnership (PPP).....	23
2.2.5 Practices in other Countries	24

2.2.6	Regulatory agencies.....	26
3.0	METHODOLOGY.....	27
3.1	Questionnaire Survey	27
3.1.1	Description of sample.....	27
3.1.2	Water Source	27
3.1.3	Water quantity / duration of supply.....	28
3.1.4	Billing and Payment	28
3.1.5	Repair Work.....	29
3.1.6	Commercial Services of NWS&DB	29
3.2	Analysis	29
4.0	ANALYSIS AND DISCUSSION OF RESULTS.....	31
4.1	Results of questionnaire survey	31
4.1.1	Water Source for different uses	31
4.1.2	Water Quality / Quantity.....	31
4.1.3	Billing & Payment	32
4.1.4	Pipe line Repair Work	33
4.1.5	Commercial Service Level of NWSDB.....	34
4.2	Analysis.....	34
4.2.1	Water Quality and Reliability.....	35
4.2.2	Willingness to pay for improved quality	35
4.2.3	Billing & Payment	36
4.2.4	Repair Work.....	36
4.2.5	Summary of identified Problems	37
4.2.6	Management Options	38
4.2.7	Detailed Problems and Reasons	39
4.2.8	Proposed Alternative Options	41
4.3	Discussion	48
4.3.1	Challenges of Incentive System	48
4.3.2	Challenges of Privatization	48
4.3.3	Challenges of Public Private Participation	50
4.3.4	Strengths and Weaknesses of Decentralization	58
4.3.5	Current Status of Work load.....	59
4.3.6	General Concept for the Solution	59
4.3.7	Verification of Proposal.....	63

5.0	CONCLUSION AND RECOMMENDATIONS.....	65
5.1	Conclusion.....	65
5.2	Recommendation	66
5.3	Further Studies	68
	REFERENCE.....	69

List of Figures

Figure 1.1	Network of Colombo City.....	3
Figure 1.2	Administration boundaries for billing and collection activities.....	4
Figure 1.3	Number of connection for various categories in the Colombo city	7
Figure 2.1	PPP Models	24
Figure 4.1	Householder Treatment of drinking water.....	31
Figure 4.2	Opinion of water quality reliability.....	32
Figure 4.3	Pipeline Repair Work.....	33
Figure 4.4	Level of Commercial Service.....	34
Figure 4.5	Organization Chart.....	51
Figure 4.6	Current Status of Work load.....	59
Figure 4.7	Concept for solution	60
Figure 4.8	Short Term Solution for pipeline repair works.....	62
Figure 4.9	Long term solution for pipeline repair works.....	62

List of Tables

Table 1.1 Colombo City administration boundaries for billing & collection activities Category wise numbers of connections in Colombo city.....	5
Table 1.2 Category wise numbers of connections in Colombo city.....	7
Table 1.3 NRW Components.....	9
Table 2.1 House hold Water Treatment used in Chennai India.....	16
Table 2.2 Quantity used compared to income in Chennai, India	17
Table 2.3 Sampling for survey	19
Table 2.4 Management types in European Union Member States.....	25
Table 4.1 Opinion of water quality reliability	32
Table 4.2 Problems Identified From Customers.....	37
Table 4.3 Problems Identified From the NWS&DB Staff.....	38
Table 4.4 Short listing of management option	39
Table 4.5 Comparison Analysis of Options.....	43
Table 4.6 Rank of identified options	47
Table 4.7 Comparison Analysis of Alternative Options.....	54
Table 4.8 Rank of identified alternative options.....	57
Table 4.9 Concept for the Solution.....	61



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LIST OF ABBREVIATIONS

AGM	-Assistant General Manager
Addl. G.M.	- Additional General Manager
UFW	- Unaccounted for water
BOT	- Build-Operate-Transfer
CMC	- Colombo Municipal Council
DGM	- Deputy General Manager
EA	- Engineering Assistant
Eg	- Example

Lpcd	- Liters per person per capita per day
mgd	- million gallons per day
NWS&DB	- National Water Supply & Drainage Board
NRW	- Non-Revenue Water
O&M	- Operation & Maintenance
OIC	- Officer in Charge
OPD	- Operation and Development
PPP	- Private Public Partnership
UFW	- Unaccounted for water
PSP	- Private Sector Participation
PVC	- Poly Vinyl Chloride
PPCP	- Public Private Community Participation
WHO	- World Health Organization



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LIST OF APPENDICES

	Description	Page
Appendix 1	Consumers Questionnaire Survey Format	71
Appendix 2	Consumers Questionnaire Survey Results	74
Appendix 3	O&M staff Questionnaire Survey Format	77
Appendix 4	O&M staff Questionnaire Survey Results	79
Appendix 5	Distance Analysis	82
Appendix 6	Verification of Proposal Format	83
Appendix 7	Verification of Proposal Results	84