



ANNUAL REPORT 2015 - 2016

CONTENTS

S.No.	INDEX	PAGE
1.	DIRECTORS OF THE BOARD	2
2.	AUDITOR'S REPORT	3
3.	BALANCE SHEET	10
	INCOME & EXPENDITURE ACCOUNT	11
	SCHEDULES	12
4.	ACCOUNTING POLICIES	21
5.	NOTES ON ACCOUNTS	23
6.	GOVERNMENT REVIEW REPORT	30
7.	FINANCIAL SUMMARY - FIVE YEARS AT A GLANCE	46





AUDITOR'S REPORT

M.C. RANGANATHAN & CO
CHARTERED ACCOUNTANTS

No.147/1, 2nd Floor
Sucons Sivagami Square,
G.N. Chetty Road,
T.Nagar, Chennai - 600 017.
Ph: 044 - 28156987
E-mail : mcs@camcr.in

AUDITOR'S REPORT TO THE BOARD OF DIRECTORS OF CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

REPORT ON THE FINANCIAL STATEMENTS

1. We have audited the accompanying financial statements of **Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB)**, which comprise the Balance Sheet as at 31st March, 2016 and the Income and Expenditure Account, for the year ended on that date and the Schedules annexed thereto, a summary of Significant Accounting Policies and Notes on Accounts.

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

2. Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of CMWSSB in accordance with the accounting principles generally accepted in India, the Accounting Standards and CMWSSB Act 1978. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error. In making those risk assessments, the management has implemented such internal control that are relevant to the preparation of Financial Statements and designed procedures that are appropriate in the circumstances so that the Internal control with regard to all the activities of the Board are effective.

AUDITOR'S RESPONSIBILITY

3. Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.



4. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to CMWSSB's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of CMWSSB's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.
5. We have taken into account the provisions of the accounting and auditing standards and matters which are required to be included in the audit report.
6. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a **Basis for Qualified Opinion.**

A. GRANTS

- 1) Schedule Q - Notes on Balance Sheet - Note No. II - 4 - Grants from Government - regarding non accounting of Grants received for an amount of Rs.8.97 Crores for the months of February, 2016 and March, 2016 received subsequently in the next financial year similarly grants received for one project is utilised for another project. This is not in accordance with AS 4- Contingencies and Events occurring after the Balance Sheet date and AS 12- Accounting for Government Grants, issued by the Institute of Chartered Accountants of India (ICAI), with resultant understatement of liabilities under the head Grants from Government.
- 2) Schedule Q - Notes on Balance Sheet - Note No. II -2,5& 6- Grants from Government- regarding treatment of Grant received from Government for Mega City Project, Additional central assistance received under the JNNURM project, Desalination plant at Nemmel and other projects during the current year aggregating to Rs. 374.68 Crores as Grants from Government instead of as Contribution as per Accounting Standard (AS) 12 (Revised) issued by the ICAI, with resultant overstatement of Grant Liability and understatement of Contribution.
- 3) Grants have been received for Second Chennai Project (SCP) and Chennai City River Conservation Project (CCRCP). The work has been completed for these projects. The





grant received has been treated as "Liability" and the asset cost has been classified under "PIP". The accounting policy is not explicit on treatment of Grants. The Accounting policy, states that, Grants from Government are shown separately and no repayment is envisaged in respect of Government Grants.

B. CURRENT LIABILITIES AND PROVISIONS

- 1) Schedule Q - Notes on Balance Sheet - Note No. V- 2- Other Liabilities- Others- regarding non reconciliation of balance outstanding in 16 GL account for Debit Balance of Rs 169.92 Crores.
- 2) Schedule Q - Notes on Balance Sheet - Note No. V- 2c - Other liabilities- Others - regarding non squaring off the sum of Rs. 29,172/- relating to ESI payable to contract labour, Pension and Gratuity-Accrued Transferred from MMC- a sum of Rs.20,09,651/- and Outstanding liabilities-PWD a sum of Rs.13,18,201/- which is pending for a long time with resultant overstatement of Liabilities.

C. FIXED ASSETS

- 1) Regarding non reconciliation of opening balances under each head of PIP description as per respective account codes(3367cra) vis a vis the opening balances in respective PIP description in Project Department records(Rs 3441.74crores). Current year conversion of PIP to fixed asset as per Department records is matching with General ledger. Reconciliation for the same has also been made. Due to mismatch of opening balances, closing balance remains un-matched.
- 2) Fixed Assets -regarding non reconciliation of balances outstanding (Dr.) in PIP account is Rs 0.16 crores respectively, the impact whereof on the accounts are not ascertainable. The entity should consider transfer of assets in area offices to Head office by passing journal entry.
- 3) Schedule Q - Notes on Balance sheet - Note VI - 1 -Fixed Assets -regarding non-provision of depreciation at an ad-hoc rate as per Accounting Policy of CMWSSB in the case of 484 instances of PIPs for aggregate amount of Rs.477.35 Crores where there is no transaction in the account as well as no progress in the projects during the year 2014-15 and 2015-16, the impact whereof on the accounts are not ascertainable.
- 4) Schedule Q - Notes on Balance sheet - Note VI - 4 -Fixed Assets -regarding non transfer of ownership of certain Fixed Assets in the name of CMWSSB, with payment of



monetary compensation to the real owners of the said assets which were used by few erstwhile LBs without ownership thereof, the impact whereof on the accounts are not ascertainable. We had asked for the confirmation from the Tahsildar (Land and Estate) and we were not furnished with the same.

- 5) Schedule Q - Notes on Balance sheet - Note VI - 5 - Fixed Assets - regarding non write off of Fixed Assets under the head Drought Relief Works for Rs.110.62 Crores due to their probable outliving, with resultant over statement of Fixed Assets and understatement of Excess of Expenditure over income for the year ended 31st March 2016 and under statement of Accumulated Deficit as of 31st March 2016, for the like amount.

D. INVENTORY

- 1) Schedule Q - Notes on Balance sheet - Note VII - 1a - Regarding non identification of Non Moving/Obsolete stock with required provision thereof, in the absence of Ageing Analysis of Inventory as of 31st March 2016, the impact whereof on the accounts is not ascertainable.
- 2) Schedule Q - Notes on Balance sheet - Note VII - 1b - Regarding non writing-off of balance outstanding of Rs.5 Lakhs in Stores Suspense account with resultant overstatement of Current Assets under the head Inventory, understatement of excess of Expenditure over Income for the year ended 31st March, 2016 and Accumulated Deficit as at 31st March, 2016.
- 3) Schedule Q - Notes on Balance sheet - Note VII - 1c - Regarding non reconciliation of balances outstanding in the GL Shortage of Stores A/c for Rs. 1.94 crores (Dr. balance) and GL Surplus of Stores A/c for Rs.1.88 crores (Cr. Balance), as of 31st March, 2016, the impact whereof on the accounts are not ascertainable.
- 4) Schedule Q - Notes on Balance sheet - Note VII - 1d - Inventory balance (Dr.) as per Inventory certificate and balance outstanding in respective GL accounts (Dr.) relating to 7 stores i.e. ETC stores, Area - 3, Area - 4, Area - 5, Area - 7, Area - 10 and Area - 12, is not in agreement with each other as at 31st March, 2016, the impact whereof on the accounts are not ascertainable.
- 5) Schedule Q - Notes on Balance sheet - Note VII - 1e - Regarding non write back/ write off of balances outstanding in GL Account codes 8252, 8253, 8262, 8264 relating to Inventory with aggregate outstanding balance of Rs.11.70 Lakhs (Cr. Balance) and Rs 19.43 Lakhs (Dr. balance), as at 31st March, 2016, the impact whereof on the accounts are not ascertainable.



- 6) Schedule Q - Notes on Balance sheet - Note VII - 1e-Regarding non passing of required accounting entries in respect of area stores account i.e. HO/Area transaction account for 12 areas for aggregate debit balance of Rs.17.73 Lakhs with resultant understatement of Current Assets as at 31st March, 2016.

E. HO/AREA TRANSACTION

- 1) Schedule Q - Notes on Balance sheet - Note VII - 3a -regarding non reconciliation and netting off of HO/Area transaction account with Net Credit balance of Rs.100.98 Crores, as at 31st March, 2016, the impact whereof on the accounts is not ascertainable.

F. COLLECTION CONTROL ACCOUNT

- 1) Schedule Q - Notes on Balance sheet - Note VII - 3b -regarding non-nullification of balance of Rs.4.07 Crores in Collection Control Account, as at 31st March, 2016, the impact whereof on the accounts is not ascertainable.

G. BANK ACCOUNTS

- 1) Regarding non reconciliation of bank account balances as per CMWSSB's books and the BRS relating to 17 bank accounts i.e. account codes 9124, 9127, 9131, 9132, 9133, 9134, 9135, 9137, 9139, 9140, 9143, 9146, 9147, 9149, 9204, 9241 and 9242 with aggregate credit balance of Rs.129.38 crores as on 31st March, 2016, the impact whereof on the accounts are not ascertainable. However the effect of unadjustment entries on the income & expenditure and assets and liabilities of the Board is not ascertainable at this stage in view of the BRS not done in above Bank codes.

H. FIXED DEPOSITS

- 1) Schedule Q- Notes on Balance sheet - Note VII - 3c -Regarding non reconciliation of Short Term Deposits in sweep with Banks with balance outstanding of Rs.306.63 Crores as of 31st March 2016, the impact whereof on the accounts is not ascertainable.
- 2) Schedule Q- Notes on Balance Sheet - Note No. VII -5a)- regarding non reconciliation of Investments in the form of Fixed Deposits with Banks in between, the balance outstanding as per General Ledger (in respective account codes) and the balance outstanding as per Cash Department records as at 31st March, 2016, the impact whereof on the accounts is not ascertainable.
- 3) Non reconciliation of bank interest, for Head office, with the 26AS data, generated from TRACES.



I. LOANS AND ADVANCES

- 1) Advances to employees-shows credit balance in respect of accounts having code numbers 8600, 8720 and 8820 amounting to Rs 6,64,034.

J. INTEREST ACCRUED

- 1) Schedule Q- Notes on Balance Sheet - Note No. VII -5a ii) & 5 a iii)-regarding non reconciliation of balances outstanding in Interest Accrued (GL code-8520, 8523, 8524) showing a credit balance of Rs.38.25 Crores, the impact whereof on the accounts is not ascertainable.

K. TERMINAL BENEFITS TO EMPLOYEES

- 1) Schedule Q- Notes on Income and Expenditure - Note No. V -Terminal benefits to employees-regarding non provision of Actuarial Liability in respect of Pension, Gratuity, Family Benefit Fund and Leave Encashment as on 31st March 2016, the impact whereof on the accounts are not ascertainable. This is not in accordance with AS-15 "Employee Benefits" issued by ICAI.
- 2) Schedule Q- Notes on Income and Expenditure - Note No. V - Employee Benefits to Employees of LBS - regarding non provision of Actuarial Liability in respect of Pension, Gratuity and Leave Encashment as on 31st March 2016, the impact whereof on the accounts are not ascertainable. This is not in accordance with AS-15 "Employee Benefits" issued by ICAI.

L. MISCELLANEOUS POINTS

- 1) **INTERNAL AUDIT:** Inadequacy of internal audit team and controls commensurate with the size and volume of the organisation. Physical verification of inventory and fixed assets have not been carried out for the year under Audit.
- 2) **REPORTED FRAUD:** In Area VI(Depot 68) , during the surprise visit of Controller of Finance, it was noticed that the consumers were representing that receipts were issued for payment towards taxes and charges and the amounts were not credited to the respective consumers accounts, amounting to Rs.3,07,234/-.

Rs.1,93,477/- has been recovered on 15.10.2015, and Rs.1,11,289/- has been recovered on 08.03.2015.

The findings state that the cash was misappropriated by the then ING Vysya Bank Limited, now known as Kotak Mahindra Bank Cashier. ING Vysya Bank Ltd has was



engaged by CMWSSB to collect both property tax and water and sewer taxes. The internal control mechanism to be strengthened to prevent frauds.

- 3) **BALANCE CONFIRMATION:** Regarding Third party balances which are subject to confirmation and reconciliation, the impact whereof on the accounts is not ascertainable.
- 4) **NON-RECONCILIATION OF DIFFERENCE IN BILLING AND COLLECTION AND UNAPPLIED CASH:** Ten areas have been migrated to fifteen areas, and accounting system has been shifted from Unix system to Oracle during the year under Audit. Existing consumers have been reshuffled within 15 areas. As a result of which, the portion of receivables, has been debited to the said account. At the time of roll out the amount stood at Rs.13.10 crores as on 30.06.2014, and, subsequently as on Balance sheet it is Rs.7.88 crores, after adjusting the collection. This has been done in an ad hoc manner and reconciliation has to be done. This needs to be correlated with the relevant area wise consumer account and accounted accordingly.
- 5) **BALANCES IN CONTROL ACCOUNTS:** In general all control accounts seem to be having a balance when in principle it should show nil balance and these balances are yet to be reconciled and netted-off.

7. OPINION

In our opinion and to the best of our information and according to the explanations given to us **except for the effects of the matters described in the Basis for Qualified Opinion paragraph**, the said Balance Sheet and the Income and Expenditure Account read together with the Notes thereon and Schedules attached thereto give a true and fair view, in conformity with the accounting principles generally accepted in India.

- i) in the case of Balance Sheet of the state of affairs of CMWSSB as at 31st March 2016, and
- ii) In the case of the Income and Expenditure Account of the Deficit (Excess of Expenditure over Income) of CMWSSB for the year ended on that date.

For M.C.Ranganathan & Co.
Chartered Accountants
FRN: 003061S

M.C.SHANTHI
[PARTNER]
M.No.018606

Place : Chennai
Date : 17-05-2018.





Chennai Metropolitan Water Supply and Sewerage Board

BALANCE SHEET AS ON 31st MARCH 2016

DESCRIPTION	SCHEDULE	2015-16 Rs.	2014-15 Rs.
LIABILITIES			
CONTRIBUTIONS	A	16,27,25,25,805.11	15,70,10,06,209.11
GRANTS FROM GOVERNMENT	B	35,66,50,43,831.53	31,45,59,21,572.53
LONG TERM BORROWINGS	C	11,77,32,79,935.00	12,19,82,54,103.00
DEFERRED CREDITS AND DEPOSITS	D	10,23,51,91,921.54	9,40,13,80,615.54
CURRENT LIABILITIES	E	10,86,17,73,584.59	10,24,63,62,415.99
TOTAL		84,80,78,15,077.77	79,00,29,24,916.17
ASSETS			
FIXED ASSETS	F	62,40,63,35,042.09	59,03,26,99,555.22
CURRENT ASSETS, LOANS, ADVANCES DEPOSITS	G	10,70,89,20,085.96	9,78,21,43,861.71
ACCUMULATED DEFICIT		11,69,25,59,949.72	10,18,80,81,499.24
TOTAL		84,80,78,15,077.77	79,00,29,24,916.17

As per our report of even date
For and on behalf of
M.C.RANGANATHAN & CO.
CHARTERED ACCOUNTANT
Firm Regn. No.003061S

ON BEHALF OF THE CMWSS BOARD

Sd/-
K. MUTHUKUMARASWAMY
FINANCE DIRECTOR

Sd/-
SATYABRATA SAHOO, I.A.S.,
MANAGING DIRECTOR

Sd/-
M.C. SHANTHI
PARTNER
M.No.018606

Place : CHENNAI
Date :17.05.2018

**INCOME AND EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2016**

DESCRIPTION	SCHEDULE	2015-16 Rs.	2014-15 Rs.
INCOME			
SALE OF WATER & SEWERAGE CHARGES	H	2,84,99,85,916.04	2,85,58,46,897.65
WATER AND SEWERAGE TAX	I	1,63,56,07,646.40	1,54,78,28,544.93
GRANTS AND SUBSIDIES		3,87,45,24,763.00	2,08,97,04,681.00
OTHER INCOME	J	55,29,86,021.37	79,79,65,651.92
PRIOR PERIOD ADJUSTMENT	N	9,94,96,866.54	-
PROVISION FOR DOUBTFUL DEBTS			
- WATER CHARGES METERED		-	1,70,15,955.00
EXCESS OF EXPENDITURE OVER INCOME		1,50,44,78,450.48	2,77,20,53,920.61
TOTAL		10,51,70,79,663.83	10,08,04,15,651.11
EXPENDITURE			
OPERATING AND MAINTENANCE EXPENDITURE	K	5,11,92,03,046.37	4,64,52,38,341.92
PAYMENTS AND PROVISIONS TO EMPLOYEES	L	1,96,72,31,621.03	1,92,35,65,913.07
OFFICE ADMINISTRATIVE EXPENSES	M	9,54,04,334.95	7,02,29,200.41
PRIOR PERIOD ADJUSTMENT	N	-	33,96,86,698.42
WATER LORRY HIRE CHARGES/ DROUGHT RELIEF EXPENSES/ FLOOD RELIEF EXPENDITURE		80,55,10,804.39	51,62,77,479.61
DEPRECIATION		1,66,05,93,676.09	1,65,58,57,010.68
DEBT SERVICE CHARGES	O	81,92,04,509.00	91,39,20,252.00
PROVISION FOR DOUBTFUL DEBTS			
- WATER CHARGES METERED		32,46,974.00	-
- WATER CHARGES UNMETERED		65,86,829.00	10,48,199.00
- TAXES		3,20,97,869.00	1,45,92,556.00
TOTAL		10,51,70,79,663.83	10,08,04,15,651.11

As per our report of even date
For and on behalf of
M.C.RANGANATHAN & CO.,
CHARTERED ACCOUNTANT
Firm Regn. No.003061S

ON BEHALF OF THE CMWSS BOARD
Sd/-
K. MUTHUKUMARASWAMY
FINANCE DIRECTOR

Sd/-
SATYABRATA SAHOO, I.A.S.,
MANAGING DIRECTOR

Sd/-
M.C. SHANTHI
PARTNER
M.No.018606

Place : CHENNAI
Date :17.05.2018



SCHEDULES

SCHEDULE - A - CONTRIBUTIONS

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Contribution from Government	4,87,96,58,365.32	4,87,96,58,365.32
Contribution from Public	6,93,12,77,387.02	6,83,19,91,066.02
Excess of assets over Liabilities transferred from CMC	15,91,67,365.25	15,91,67,365.25
Excess of assets over Liabilities transferred from P.W.D.	5,18,87,380.46	5,18,87,380.46
Excess of assets over Liabilities transferred from Adhoc Board	8,42,251.86	8,42,251.86
Excess of Liabilities over Assets transferred from ULB's	-43,69,42,738.80	-43,69,42,738.80
Capital Reserves	3,58,10,68,291.00	3,10,88,35,016.00
Fixed assets renewal fund	1,10,55,67,503.00	1,10,55,67,503.00
TOTAL	16,27,25,25,805.11	15,70,10,06,209.11

SCHEDULE - B - GRANTS FROM GOVERNMENT

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Second Chennai Project	1,37,37,90,000.53	1,37,37,90,000.53
CCRCIP	3,51,59,00,000.00	3,51,59,00,000.00
JNNURM	3,02,51,08,485.00	2,69,06,02,485.00
Desalination plant at Nemmeli	8,92,63,84,351.00	8,92,63,84,351.00
Others	7,78,68,77,325.00	6,52,38,58,285.00
CMCDM	5,98,58,00,000.00	3,83,65,00,000.00
ULB Grants	1,90,34,07,692.00	1,90,34,07,692.00
Devolution Fund	3,14,77,75,978.00	2,68,54,78,759.00
TOTAL	35,66,50,43,831.53	31,45,59,21,572.53

SCHEDULE - C - LONG TERM BORROWINGS

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Loans From Government	7,27,51,13,540.00	7,27,51,13,540.00
Loan from Financial Institutions	4,49,81,66,395.00	4,92,31,40,563.00
TOTAL	11,77,32,79,935.00	12,19,82,54,103.00



SCHEDULE - D - DEFERRED CREDITS AND DEPOSITS

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
(I) DEPOSITS FROM PUBLIC:		
- Service Connections - Sew.	41,66,664.00	10,35,54,345.00
- General Works	9,58,76,69,370.21	8,77,08,08,166.21
- MLA Constituency Development Scheme	5,22,02,426.00	2,33,99,608.00
(II) SEC. DEPOSITS & RETENTION MONEY:		
A. RETENTION MONEY :		
- Suppliers	2,86,93,354.00	2,80,97,701.00
- Contractors	3,33,81,611.00	43,53,51,168.93
B. SECURITY DEPOSITS		
- Staff	66,597.40	66,597.40
- Consumers	1,16,74,109.00	1,16,74,109.00
- Contractors	51,73,36,589.93	2,84,27,720.00
- Miscellaneous	1,200.00	1,200.00
TOTAL	10,23,51,91,921.54	9,40,13,80,615.54

SCHEDULE - E - CURRENT LIABILITIES

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
(A) SUNDRY CREDITORS		
- Suppliers	10,70,43,045.24	10,14,25,363.90
- Contractors	96,01,89,022.00	83,24,67,828.50
- Expenses	55,33,35,200.30	50,51,24,835.10
INTEREST ACCURED		
- Government Loans	6,81,82,62,710.00	6,20,42,16,418.00
- Financial Institutions	14,69,75,624.00	12,05,53,473.00
(B) OTHER LIABILITIES		
- Staff	1,49,95,10,861.28	1,51,78,09,104.88
- Others	77,64,57,121.77	96,47,65,392.61
TOTAL	10,86,17,73,584.59	10,24,63,62,415.99



Chennai Metropolitan Water Supply and Sewerage Board

SCHEDULE - F - FIXED ASSETS

DESCRIPTION	Rs.	2015-16 Rs.	2014-15 Rs.
A. WATER SUPPLY AT COST	31,52,16,00,161.95		
Less: Depreciation	-12,90,88,04,873.39	18,61,27,95,288.56	18,44,00,41,452.55
B. SEWERAGE AT COST	14,20,59,84,940.20		
Less: Depreciation	-6,45,14,94,229.84	7,75,44,90,710.36	6,48,09,74,893.10
C. GENERAL AT COST	80,96,82,950.97		
Less: Depreciation	-55,63,37,518.57	25,33,45,432.40	25,68,01,818.04
D. PROJECT In PROGRESS			
1. WATER SUPPLY			
Deposit Works	3,79,54,31,557.57		
Other Works	15,95,98,08,819.39	19,75,52,40,376.96	19,51,93,24,698.69
2. SEWERAGE			
Deposit Works	7,28,85,45,295.13		
Other Works	7,18,85,30,121.38	14,47,70,75,416.51	12,86,44,19,907.78
3. GENERAL		22,36,40,103.14	27,53,49,109.29
E. DROUGHT / FLOOD RELIEF WORKS		1,10,62,35,599.82	1,07,84,89,451.94
F. DROUGHT RELIEF WORKS GENERAL		22,35,12,114.34	11,72,98,223.83
TOTAL		62,40,63,35,042.09	59,03,26,99,555.22

**SCHEDULE - G - CURRENT ASSETS, LOANS, ADVANCES & DEPOSITS**

DESCRIPTION	Rs.	2015-16 Rs.	2014-15 Rs.
A. INVENTORY		8,31,80,462.84	11,18,33,395.58
B. SUNDRY DEBTORS			
Water Charges Metered	24,99,86,751.01		
Less: Provision for doubtful debts	-6,94,87,333.18	18,04,99,417.83	16,75,11,519.59
Water Charges Un-metered	35,56,29,315.75		
Less: Provision for doubtful debts	-18,62,57,028.84	16,93,72,286.91	11,00,90,826.23
Tax	1,54,66,86,821.08		
Less: Provision for doubtful debts	-11,37,65,087.93	1,43,29,21,733.15	1,14,40,40,908.89
Due from Public Authorities		1,99,56,271.27	1,99,56,271.27
Debtors Control			
- Mobile Water Supply to Govt.	17,34,26,434.97		
- Sewerage Service Charges	23,97,90,255.48		
- Water Supply others	-94,820.50		
- Control Surcharges	20,32,76,253.19		
- Dis Cheque	2,78,238.00		
- Raw Sewage	12,70,751.00	61,79,47,112.14	56,59,43,857.32
Rent Receivable		1,28,82,739.00	57,39,797.00
CMWSSB Group Gratuity Trust		1,21,17,987.50	1,21,17,987.50
Tax Deducted at Source		3,74,54,470.70	3,52,60,331.70
Head Office/Area-Transactions		1,00,98,04,477.34	33,92,42,786.02
Collection Control		-4,07,36,235.13	5,68,14,704.13
C. CASH AND BANK BALANCES			
- Current A/c with Scheduled Banks Balances with RBI		68,92,86,250.26	2,88,40,50,670.24
- Short-Term Dep. with Scheduled Banks		3,06,63,18,075.00	1,04,15,39,401.00
- Cash in hand		70,943.35	27,456.35
- Imprest Account - Adv to Staff		1,04,892.00	98,325.00



Chennai Metropolitan Water Supply and Sewerage Board

DESCRIPTION	Rs.	2015-16 Rs.	2014-15 Rs.
D. LOANS AND ADVANCES			
- Contractors		14,78,72,342.00	41,61,25,404.00
- Suppliers		1,46,53,075.40	1,00,69,552.40
- Expenses		1,62,60,398.60	1,55,57,576.10
- Employees		8,33,48,012.29	8,38,52,365.79
- Others		4,99,449.79	4,99,449.79
E. DEPOSITS AND INVESTMENTS			
I. STAFF			
- SPL P.F. Investments		6,70,55,538.00	6,25,65,226.00
- G.P.F. Investments		75,81,37,207.34	70,61,24,558.34
- Pension Fund Investment		1,36,94,51,430.00	1,14,73,86,568.00
- Inv. on CMWSSB Emp. Spl Med Fund		1,68,88,420.00	1,57,01,565.00
- Accident Coverage Investment		1,05,38,569.00	95,34,399.00
Interest Accrued - Others		-12,57,93,872.35	-11,20,57,888.00
Interest Accrued - CPS fund Investments		-25,52,17,782.73	-14,67,88,270.73
Interest Accrued - Pension Investments		-15,27,967.00	-4,26,240.00
II. Others			
- Deposits		13,56,60,674.46	10,50,21,050.46
- Trust and Retention Investment		47,09,29,600.00	44,85,93,355.00
- Fixed Asset Renew. Fund Investment		70,89,84,127.00	63,97,46,361.00
TOTAL		10,70,89,20,085.96	9,78,21,43,861.71



SCHEDULE - H - SALE OF WATER & SEWER CHARGES

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
A) METERED		
Domestic	15,59,85,585.00	16,04,34,533.75
Commerical	1,19,51,20,615.22	1,23,45,09,730.50
Institutional	12,13,80,862.00	13,34,11,899.50
Municipalities	8,73,65,796.00	14,96,16,841.05
B) UN METERED		
Domestic	35,91,26,154.00	33,45,26,644.50
Commerical	19,74,01,212.00	18,09,27,910.00
Institutional	21,28,080.00	22,20,300.00
Sale of treated Water	14,50,88,097.25	12,93,89,717.30
Mobile Water Supply	38,47,35,788.00	29,77,44,055.10
Sewer Charges	20,16,53,726.57	23,30,65,265.95
TOTAL	2,84,99,85,916.04	2,85,58,46,897.65

SCHEDULE - I - WATER & SEWERAGE TAX

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Water Tax	34,96,69,430.98	33,37,82,483.00
Sewerage Tax	1,28,59,38,215.42	1,21,40,46,061.93
TOTAL	1,63,56,07,646.40	1,54,78,28,544.93

SCHEDULE - J - OTHER INCOME

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Sale of Scrap	11,79,500.00	2,83,86,009.00
Interest From Banks	20,96,27,954.00	12,15,20,834.00
Interest from others	7,12,71,168.20	14,56,32,403.00
Sale of tender forms	3,47,600.00	3,04,000.00
Liquidated Damages	2,85,10,052.00	96,77,305.00
Consultancy charges earned	66,39,800.00	4,01,82,800.00
Other Miscellaneous Income	23,54,09,947.17	45,17,31,974.85
Profit on sale of fixed assets	0.00	5,30,326.07
TOTAL	55,29,86,021.37	79,79,65,651.92



SCHEDULE - K - O & M EXPENSES

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
A. OPERATING EXPENSES		
Power	1,81,53,40,239.00	1,57,17,02,849.20
Chemicals	2,92,40,776.16	4,38,95,158.95
Fuel & Lubricants	7,66,62,579.19	7,54,26,574.90
Less: Project Appropriation	-2,29,98,774.00	-1,58,24,681.00
Loose Tools	18,05,277.35	15,36,519.14
Freight & Insurance	0.00	61,103.00
Sewerage Lorry Hire Charges	1,77,95,224.00	3,29,02,773.00
Desilting	10,01,18,519.00	9,89,24,591.40
Other Operating Expenses	1,90,93,51,188.54	1,68,74,25,827.00
TOTAL - A	3,92,73,15,029.24	3,49,60,50,715.59
B. REPAIRS AND MAINTENANCE		
Pipelines, Pumping Plants & Other Equipments	75,56,88,849.53	72,28,30,858.65
Building & Civil Works	18,37,43,452.51	17,35,24,505.74
Vehicles	25,94,687.00	15,39,337.00
Other Repairs & Maintenance	24,98,61,028.09	25,12,92,924.94
TOTAL - B	1,19,18,88,017.13	1,14,91,87,626.33
GRAND TOTAL	5,11,92,03,046.37	4,64,52,38,341.92

SCHEDULE - L - PAYMENTS & PROVISIONS TO EMPLOYEES

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Salaries, Wages & Allowances	2,45,50,13,938.18	2,34,99,52,325.13
Employees Welfare Expenses	9,91,85,261.85	16,35,17,767.94
Contribution to Deputationists	21,73,668.00	6,07,539.00
TOTAL	2,55,63,72,868.03	2,51,40,77,632.07
Less: Project Appropriation	-58,91,41,247.00	-59,05,11,719.00
TOTAL	1,96,72,31,621.03	1,92,35,65,913.07



SCHEDULE - M - O & A EXPENSES

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
OFFICE EXPENSES:		
Rent, Rates & Taxes	83,84,173.00	76,37,347.00
Electricity	1,74,87,045.00	1,09,94,942.00
Wireless & Mass Comm,Charges	2,04,713.00	7,66,119.00
Telephone Charges	96,80,182.26	93,32,101.81
Postage & Telegram	77,55,786.00	58,52,105.00
Printing & Stationery	1,46,73,852.20	1,11,93,889.00
Exhibition & Publicity	32,84,181.00	24,47,132.00
Other Office Expenses	1,73,11,701.33	74,50,555.00
Travel and Conveyance	3,83,39,780.00	3,12,85,280.00
ADMINISTRATIVE EXPENSES		
Audit Fees	1,79,315.00	2,65,540.00
Legal Charges	12,65,007.00	14,00,857.00
Consultancy Fees and Expenses	11,77,896.00	7,15,828.00
Bank Charges	16,55,518.63	11,63,322.10
Honorarium	7,640.00	2,21,355.00
Other Administrative Expenses	78,63,207.53	62,23,972.50
Guarantee Commission Account	48,65,248.00	53,25,316.00
TOTAL	13,41,35,245.95	10,22,75,661.41
LESS : Project Appropriation	-3,87,30,911.00	-3,20,46,461.00
TOTAL	9,54,04,334.95	7,02,29,200.41



Chennai Metropolitan Water Supply and Sewerage Board

SCHEDULE - N - PRIOR PERIOD ADJUSTMENT

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
A. DEBIT:		
Water and Sewer Tax	19,76,44,367.04	8,03,39,358.44
Water Charges Unmetered	5,97,93,856.75	3,03,80,465.34
Water Charges metered	1,49,74,223.59	61,79,950.84
Sewer Charges	2,93,80,481.38	1,23,59,901.67
Depreciation	13,69,97,678.45	58,30,22,481.94
Miscellaneous	20,000.00	0.00
SUB TOTAL 'A'	43,88,18,607.21	71,22,82,158.23
B. CREDIT:		
Water and Sewer Tax	35,29,24,838.20	23,17,52,059.27
Water Charges Unmetered	10,62,38,902.49	8,73,62,149.94
Water Charges metered	2,68,35,292.63	1,78,27,081.74
Sewer Charges	5,23,08,440.43	3,56,54,162.46
Miscellaneous	0.00	6.40
SUB TOTAL 'B'	53,83,07,473.75	37,25,95,459.81
TOTAL (A+B)	-9,94,96,866.54	33,96,86,698.42

SCHEDULE - O - DEBT SERVICE CHARGES

DESCRIPTION	2015-16 Rs.	2014-15 Rs.
Interest on govt loans	61,40,46,292.00	58,63,47,779.00
Interest on Private Financial Institutions	29,27,22,256.00	34,77,57,911.00
TOTAL	90,67,68,548.00	93,41,05,690.00
Less: Interest Capitalization	8,75,64,039.00	2,01,85,438.00
TOTAL	81,92,04,509.00	91,39,20,252.00



SCHEDULE - P **SIGNIFICANT ACCOUNTING POLICIES**

1) Accounting Concepts:

The financial statements are prepared under the historical cost convention and on "Going Concern" basis. CMWSSB follows mercantile system of accounting.

Contribution from Public - The amount received from the public during the previous financial year towards water/sewer connections is transferred during the subsequent financial year to Contribution from Public.

2) Inventory Valuation:

Stores materials are valued at Weighted Average Cost method.

3) Events occurring after Balance Sheet date:

Events occurring after the Balance Sheet date are those that occur between the Balance Sheet date and the date on which the financial statements are compiled/ approved.

4) Prior period items:

Income / Expenditure which arises in the current year as a result of omissions in the preparation of financial statements of earlier years are treated as prior period item. Prior period expenses and Income have been recognized as per accounting requirements. In addition to that income/expenses relating to previous year which materializes during the current year have also been considered as prior period items.

5) Depreciation:

Depreciation on Fixed Assets is charged on Straight - Line Method (SLM) basis, as per the rates approved by CMWSSB's Board. Depreciation is charged for the full year if assets are brought to accounts before 30th September and for half year if the assets are brought to accounts after 1st October till 31st March. Depreciation on Assets completed and put to use included in Project-In-Progress (PIP), for which Completion Report is awaited, is charged at an adhoc rate of 5%, on SLM basis.

6) Revenue Recognition:

CMWSSB follows mercantile system of accounting and recognizes income and expenses on accrual basis, including provisions / adjustments for committed obligation and amounts determined as payable or receivable during the year excepting, interest on loans to staff and terminal benefits payable to employees, which is accounted on cash basis.



7) Provision For Doubtful Debts:

The provision for Doubtful Debts on Sundry Debtors for Water Charges and Taxes is made/written back, on the differential amount, at 20% and 10% for metered and un-metered Debtors respectively and at 10% for Taxes.

8) Fixed Assets:

Fixed Assets are stated at cost of acquisition / construction, less accumulated Depreciation. Cost is inclusive of the expenditure for installation and erection in bringing Fixed Assets to usable condition. Project-In-Progress (PIP) is accounted with expenses incurred thereon, based on progress of the Project. Salaries, Wages & Allowances, Office expenses & Administrative expenses and Fuel & Lubricants are appropriated to PIP at percentages fixed by the Board.

9) Grants:

Grants from Government are shown separately. No repayment is envisaged in respect of such grants.

10) Investments:

Investments are generally in the form of Fixed Deposits with the Banks which are accounted on the basis of Principal deposit amount. The interest earned on the Fixed Deposits is credited to Income and Expenditure Account, excepting those Fixed Deposits which belong to specific Funds/Projects, in which case the interest earned is credited to respective Funds /Projects account.

11) Retirement Benefits to Employees:

The Terminal Benefits payable to Employees are accounted on cash basis.

12) Borrowing costs:

The borrowing cost attributable to qualifying assets is capitalized.

13) Contingent Liabilities:

Claims against CMWSSB not acknowledged as debts are disclosed as Contingent Liabilities depending on facts of each case and after due evaluation of relevant legal aspects.

14) Liquidated Damages:

The Liquidated damages is to be treated as other income.



SCHEDULE – Q

NOTES ON ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2016

NOTES ON BALANCE SHEET:

I. SCHEDULE - A – CONTRIBUTION:

1. Contribution from Public:

Rs. 693.13 Crores (Previous Year - 693.20 Crores) being the amount received from the public during the previous Financial Year, towards Water/Sewer connections, has been transferred to 'Contribution from Public' during the current financial year.

2. Excess of Assets over Liabilities:

The amount representing Excess of Assets over Liabilities transferred from CMC, FWD and Adhuc Board respectively Rs.15.92 Crores, Rs. 5.19 Crores and Rs.0.08 Crores during the inception of the Board are shown under Schedule A - Contribution, as per the practice in the prior years.

3. Excess of Liabilities over Assets:

Excess of Liabilities over Assets transferred from erstwhile 42 LBs an aggregate of Rs. 43.69 Crores as of 31st March 2016 (Previous Year Rs. 43.69 Crores), shown under Schedule A - Contribution, as per the practice in the previous years.

4. Capital Reserves:

An amount of Rs. 47.23 Crores (Previous Year Rs. 33.59 Crores) received towards Infrastructure Development Charges through Chennai Metropolitan Development Authority (CMDA) and from applicants directly during the year has been credited to Capital Reserve Account, as per the practice in the previous years.

5. Fund:

The fund represents Fixed Asset Renewal Fund for Rs. 110.56 Crores against which investments are made to the extent of Rs. 70.90 crores during the year. The balance in the fund account represents non appropriation of funds towards additions to Fixed Assets in the earlier year/s.

II. SCHEDULE - B – GRANTS FROM GOVERNMENT :Rs. 3566.50 Crores (Previous Year- 3145.59 crores)

The Grants received for various Projects from Government viz. Second Chennai project (SCP), Chennai City River Conservation Project (CCRCP), JNNURM, CMCDM and Urban Local Bodies (ULB) etc are shown separately as detailed hereunder:

1. Grants from Government (SCP and CCRCP) – Rs.488.97 Crores (Previous Year – Rs. 488.97 Crores):

The balance outstanding in the above account as of 31st March 2016 in respect of the following projects remain the same as prior to the year 2008-09 for SCP (Rs. 137.38 Crores) and since 2009-10 for CCRCP (Rs.351.59 Crores).



2. Grants from Government (JNNURM) – Rs. 302.51 Crores (Previous Year – Rs. 269.06 Crores):

The Board has received Grant of Rs. 33.45 crores towards execution of various projects under Jawaharlal Nehru National Urban Renewal Mission (JNNURM Transition Phase) during the year 2015-16.

3. Devolution Fund – Rs. 314.78 Crores (Previous Year – Rs. 268.55 Crores) :

The fund represents grants received from State's tax revenue at fixed rate, utilized for Development of Schemes along with Corporation of Chennai.

A sum of Rs. 46.23 Crores (Previous year – 56.24 Crores) received during this year represents the Grant for the months of March 2015 to January 2016. The Grant for the months of February 2016 and March 2016 aggregating Rs. 8.97 Crores was received in April 2016 and hence not accounted during the current financial year.

4. Grants from Government - CMCDM (Mega City Project) – Rs. 598.58 Crores (Previous Year Rs. 383.65 Crores):

Grant of Rs.214.93 Crores has been received during the current year from Government of Tamil Nadu for Mega City Projects 2011-12, 2012-13 and 2013-14 respectively Rs.25.97 crores, 45.68 crores and Rs. 143.28 crores against the Grants sanctioned under CMCDM for the scheme 2011-12, 2012-13 and 2013-14 respectively Rs.189 crores, 390.20crores and Rs.513.33 crores.

5. Grants from Government – Others Rs. 778.69 Crores (Previous Year Rs. 652.39Crores):

Grant of Rs.126.30 Crores has been received from Government for additional central assistance received towards the projects of Desalination Plant at Nemmeli, Plugging of sewage outfall, Infrastructure amenities works, Flood & Drought works and TNIPP.

III. SCHEDULE - C – LONG TERM BORROWINGS:

1. Loans from Government – Rs. 727.51 Crores (Previous Year – Rs. 727.51 Crores):

The loan sanctioned by Tamil Nadu Government represents Chennai Project -I & II and other schemes. There was no repayment of Principal and Interest on these Loans during the year. The total over-dues of principal and Interest aggregates to Rs.1204.81 Crores as of 31st March 2016.

2. Loans from Financial Institutions – Rs. 449.81 Crores (Previous Year – 492.31Crores) :

- a. The erstwhile LEs had availed loans from Tamil Nadu Urban Finance and Infrastructure Development Corporation Limited (TUFIDCO) and Tamil Nadu Urban Infrastructure Financial Services Limited (TNUIFSL). The Government of Tamil Nadu has been approached for sanction of Grant towards liquidation of dues for the periods from 2012 to 2031 to these two financial institutions, for the revised outstanding amount of Rs. 164.60 Crores. (Rs.129.73 Crores for TUFIDCO and Rs.34.87 Crores for TNUIFSL respectively.)



- b. The Loans availed by the Board from TUFIDCO was defaulted from April 2015 to Mar 2016. However the overdues was adjusted from O&M grant received in respect of Added areas to the tune of Rs. 23.94 crores for the period April 2015 to December 2015 for MCP(added area and CMWSSB), TIPS and April 2015 to March 2016 for takeout finance loan.
- c. A sum of Rs.14.24 Crores was sanctioned as loan by TUFIDCO during the year under JnNURM Transition Phase for 14 projects.

IV. SCHEDULE - D - DEFERRED CREDITS AND DEPOSITS:

1. MLA Constituency Development Scheme account - Rs. 5.22 Crores - (Previous Year Rs. 2.34 Crores)

The amount received during the year is Rs. 2.88 Crores towards improvement of water and sewer connection in the respective Constituency.

V. SCHEDULE - E - CURRENT LIABILITIES AND PROVISIONS:

1. Other Liabilities-Staff-GPF-Rs.36.04 Crores (Previous Year-Rs. 40.78 Crores)

General Provident Fund (GPF) balance represents the contribution of Staff/ Labour is after setting off the Advances to Staff/Labour.

2. Other Liabilities - Others

The balances in the respective account codes 5390 and 5410 amounting to Rs. 0.33 crores are outstanding for long period.

The balances outstanding in the general ledger account codes 5250, 5311, 5315, 5370, 5450, 5451, 5520, 5530, 5580, 5600, 5630, 5650, 5660, 5760, 5810, 9009 amounting to Rs.169.92 crores showing debit balances is under reconciliation.

VI. SCHEDULE - F - FIXED ASSETS:

1. Fixed Assets includes Rs.81.40 Crores, being Projects commissioned, in respect of three projects viz., SCP, 530 Million liters per Day (MLD) Project, and CCRCP for which Completion Reports are yet to be received. For the above commissioned projects adhoc rate of depreciation (5%) is provided as per the prevailing practice amounting to Rs.4.07 Crores for the financial year 2015-16.
2. Project in Progress (PIP)-Sewerage-Deposit works includes Rs.166.36 Crores, being the expenditure incurred for Madurai and Kumbakonam sewerage works under CCRCP (Madurai Rs.114.39Crores and Kumbakonam Rs.51.97Crores respectively) against the deposits received from Madurai - 117.58 crores and Kumbakonam Rs.52.56 Crores respectively. However completion report has been received for major part. There are certain completion report still pending and the amount of which has been treated as PIP.
3. In respect of shortfall in the deposit, the Board Fund is utilized but the interest is not charged for the same. Similarly if there is an excess deposit received, interest is not paid by the Board being the Local Bodies, as per the conventional practice followed by the Board.



4. Salaries, Wages & Allowances, Office expenses & Administrative expenses and Fuel & Lubricants have been appropriated to PIP at the rate of, i.e. 23%, 30% and 30% respectively.
5. In respect of few of the erstwhile LBs, the assets which were used by them were not owned by them. The LBs were having physical possession of the same. The transfer of ownership with monetary compensation or continuance of existing arrangement is yet to be finalized.
6. The fixed assets inter alia includes Drought Relief Works a sum of Rs.107.85 Crores since 2010-11 and Rs.2.77 Crores during the current financial year. Depreciation is not considered on these assets. As the assets put into use during 2010-11 would have outlived and their working condition is unlikely, write off of the said assets after obtaining approval from the appropriate authority is under preparation.
7. The Fixed assets which were commissioned in the earlier years are capitalized during the current year on receipt of respective completion certificates, under the categories i.e. Water, Sewerage and General for an aggregate amount of Rs.168.91 crores on which total depreciation of Rs.13.70 crores is charged and accounted under Prior Period Adjustment Account.

VII. SCHEDULE - G – CURRENT ASSETS, LOANS, ADVANCES AND DEPOSITS:

1. Inventory - Rs. 8.32 Crores - (Previous Year - Rs. 11.18 Crores)

- a) The ageing analysis of inventory as of 31st March 2016 is made. Consequently non moving/obsolete stock is identified and action is taken for replacement or to be brought for auction.
- b) The Inventory includes balance outstanding in the following two accounts in which there is no movement/ the movement is sporadic, since the year 2011 onwards, in respect of which reconciliation process is initiated.

Shortage of stores (A/c code 8240)	Rs.1.94 crores Dr Balance
Surplus of stores (A/c code 8230)	Rs.1.86 crores Cr balance
- c) Inventory inter alia includes Rs. 5.00 lakhs in Stores Suspense account (comprising of Rs.3.46 lakhs relating RO-II and Rs.1.54 lakhs relating to H.O).
- d) In seven stores account viz.ETC, Area - 3, Area - 4, Area - 5, Area - 7, Area - 10 and Area - 12 Stores, the inventory value as per inventory certificate and the balance outstanding in respective GL account codes of relevant stores account code nos. 8200, 8213, 8214, 8215, 8217, 8220 and 8222 is not in agreement with each other, for which reconciliation is in progress.
- e) Inventory includes balances outstanding in the adjustment accounts viz. Stores Control Account, Stores Adjustment, In-transit Inventory Value and Inventory Resources are under reconciliation.



2. Sundry Debtors - Rs. 235.74 Crores:

- a) Provision for doubtful debts has been provide for the sundry debtors under the heads water charges and water and sewer tax outstanding as on 31st march 2016 as per the policy followed by the Board.
- b) Sundry Debtors for Sewerage Service Charges have not been considered for making Provision for Doubtful Debts, as per extant policy.
- c) Sundry Debtors includes a sum of Rs. 1.21 Crores under the account of CMWSSB Group Gratuity Trust.

3. HO/Area Transaction – Rs. 100.98 Crores:

The balance outstanding in the HO/Area transaction is under reconciliation.

4. Collection Control Account - Rs. 4.07 Crores (net credit balance):

The balance outstanding in the Collection Control account is under reconciliation.

5. Short Term Deposits with Banks -Rs. 306.63 Crores:

The particulars and breakup of Short Term Deposits in Sweep with Banks as of 31st March 2016, is under reconciliation.

6. Loans and Advances-Rs.26.26 Crores:

Loans and Advances – Expenses – Rs. 1.63 Crores (Previous Year – Rs. 1.56 Crores):

The above includes an amount of Rs.0.67 Crores being advance given to Southern Railways which remain outstanding for more than nine years.

Deposits and Investments-Rs.315.51 Crores (Previous Year – Rs. 287.54 Crores):

Deposits and Investments – Staff/Others

- i) In respect of Investments in the form of Fixed Deposits with Banks, the balance outstanding as per General Ledger (In respective account codes) and the balance outstanding as per Cash Department records is under verification and reconciliation as at 31st March 2016.
- ii) In Interest accrued- Pension Investments account (GL 8523) and CPS (GL 8524), there is Credit Balance of Rs. 25.52 crores and 0.15 crores as of 31st March 2016, for which particulars are under analysis and reconciliation.
- iii) In Interest Accrued- Others account (GL 8520), there is a Credit balance of Rs.12.58 crores as of 31st March 2016, for which particulars is under analysis and reconciliation.



NOTES ON INCOME AND EXPENDITURE ACCOUNT:

I. SCHEDULE - H - SALE OF WATER AND SEWERAGE CHARGES

Sale of water - Unmetered - Domestic - Rs. 35.91 Crores (Previous Year - 33.45 Crores)

The amount shown under this head is inclusive of amount pertaining to erstwhile LBs. However such charges are collected during the year as per the rates applicable in the case of erstwhile LBs instead of CMWSSB's rate, as approved by Board.

II. Grants and Subsidies- Rs. 387.45 Crores (Previous Year - Rs. 208.97 Crores):

1. The above includes Grant from Government of Rs. 175 Crores for purchase of desalinated water from Minjur desalination plant.
2. Government has sanctioned sum of Rs.104.00 Crores towards Nemmeli O&M expenditure incurred for the period 2011-12 to 2013-14. Out of which Rs.35 Crores was released during the current financial year.
3. A sum of Rs. 38.18 Crores sanctioned as a grant towards O&M expenditure in respect of Added Areas of Chennai city for the years 2013-14 & 2014-15 from O&M GFF, of which Rs.31.63 crores received during the current financial year.

III. SCHEDULE - I - WATER AND SEWERAGE TAX:

Water and Sewer tax - Rs. 163.56 Crores (Previous Year - Rs. 154.78 Crores):

The amount shown under Water and Sewer Tax is inclusive of amount pertaining to the erstwhile Local Bodies.

IV. SCHEDULE - J - OTHER INCOME

1. Interest from Banks - Rs. 20.96 Crores (Previous year - Rs. 12.15 Crores)

The Term Deposits with Bank as of 31.03.2016 are Rs. 306.63 Crores (Previous year Rs. 104.15 Crores). The interest accrued on Fixed Deposits with Banks during the year amounting to Rs. 8.81 Crores.

2. Discount Earned - Rs. 1.86 Crores (Previous year - Rs. 3.64 Crores)

The above amount represents discount availed on payments made by the Board to its suppliers of project materials, before prescribed due date.

3. Sale of Scrap - Rs. 0.12 Crores (Previous year - Rs. 2.84 Crores)

The above amount represents the amount received by the Board for the scrap during the auction of obsolete and unused materials made as scrap after obtaining the orders from competent authority during the year.



V. SCHEDULE - L - PAYMENTS AND PROVISIONS TO EMPLOYEES:

1. Pension:

The accumulated balance in Pension Fund is Rs. 92.54 Crores (Previous Year Rs. 92.25 Crores). The amount invested is Rs. 136.95 Crores (Previous Year Rs. 114.74 Crores). Further, an investment of Rs. 12.87 Crores (Previous Year Rs. 11.92 Crores) has been made under Contributory Pension Scheme (CPS). Actuarial Valuation for Pension is being discussed with consultants and will be brought into accounts after ascertaining the liability.

2. Gratuity:

- a) Group Gratuity Scheme (GGS) / Fund have been created with LIC of India. Contribution to the scheme is charged to revenue.
- b) Actuarial Valuation for Gratuity is being discussed with consultants and will be brought into accounts after ascertaining the liability.

3. Leave Encashment:

The Leave Encashment benefit to the Employees on retirement is accounted on cash basis.

VI. SCHEDULE - O - DEBT SERVICE CHARGES - FINANCIAL INSTITUTIONS

The Interest on loan from Financial Institutions during the year is Rs. 29.27 Crores out of which Rs. 8.76 Crores has been capitalized.

VII. TAXES ON INCOME:

In view of sustained losses incurred, tax liability may not accrue in near future and hence provision for Deferred Tax has not been made.

VIII. OTHERS:

1. Contingent Liabilities:

Claims against CMWSSB not acknowledged as debt amount to Rs.11.05 Crores (Previous Year Rs. 17.05 Crores) in respect of 161 court cases (Previous year 255 court cases), which are under litigation.

2. Third Party balances are subject to confirmation and reconciliation.

3. Previous year's figures have been suitably regrouped wherever necessary in conformity with current year's classification.

ON BEHALF OF THE CMWSS BOARD

Sd/-
K. MUTHUKUMARASWAMY
FINANCE DIRECTOR

Sd/-
SATYABRATA SAHOO, I.A.S.,
MANAGING DIRECTOR

As per our report of even date
For and on behalf of
M.C.RANGANATHAN & CO.,
CHARTERED ACCOUNTANT
Firm Regn. No.003061S

Sd/-
M.C. SHANTHI
PARTNER
M.No.018606

Place : CHENNAI
Date :17.05.2018





Chennai Metropolitan Water Supply and Sewerage Board

MUNICIPAL ADMINISTRATION & WATER SUPPLY (METRO WATER) DEPARTMENT
TAMIL NADU GOVERNMENT'S REVIEW ON THE WORKING OF
CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD
FOR THE YEAR ENDED 31st MARCH 2016

A. FINANCIAL:

1. The Chennai Metropolitan Water Supply and Sewerage Board was constituted under the CMWSS Act 1978 (TN Act 28 of 1978) for exclusively attending to the growing needs of the citizens in Chennai city and for planned development, appropriate regulation of water supply and sewerage services in Chennai Metropolitan Area, with particular reference to adequate supply of safe and good quality drinking water, treatment and disposal of sewage and thereby the protection of public health and for all matters connected therewith or incidental thereto.
2. The total assets of the Board as on 31st March 2016 stood at ₹ 7311.53 Crores, consisting of net Fixed Assets of ₹ 6240.63 Crores and current assets of ₹ 1070.89 Crores represented by Sundry Debtors, Loans, Advances and Deposits etc.
3. The total liabilities of the Board stood at ₹ 8480.78 Crores, consisting of Contribution of ₹ 1627.25 Crores, Grants from Government of ₹ 3566.50 Crores, Long Term Borrowings of ₹ 1177.33 Crores and Current Liabilities including Deferred Credits and Deposits of ₹ 2109.70 Crores.

The following statement shows the Revenue Income from Water and Sewerage Charges and Water and Sewerage Tax:

	(₹ in Lakhs)	
	2015-16	2014-15
A. WATER AND SEWERAGE CHARGES		
METERED		
Domestic	1559.86	1604.35
Commercial	11951.20	12345.10
Institutional	1213.81	1334.12
Municipalities	873.66	1496.17
UN-METERED		
Domestic	3591.26	3345.27
Commercial	1974.01	1809.28
Institutional	21.28	22.20
Mobile Water Supply to private customers	3847.36	2977.44
Sewerage charges	2016.54	2330.65
Sale of raw / secondary treated sewage	1450.88	1293.90
Total (A)	28499.86	28558.48
B. WATER AND SEWERAGE TAX		
Water Tax	3496.70	3337.82
Sewerage Tax	12859.38	12140.46
Total (B)	16356.08	15478.28
Grand Total (A+B)	44855.94	44036.76
C. OTHER INCOME	5529.86	7979.66
D. PROVISIONS WRITTEN BACK	-	170.15
E. GRANTS AND SUBSIDIES	38745.25	20897.05
F. PRIOR PERIOD ADJUSTMENT	994.97	-
TOTAL INCOME - (A+B+C+D+E+F)	90126.02	73083.62
G. EXPENDITURE	105170.80	100804.15
H. DEFICIT	15044.78	27720.53



The Deficit of ₹ 150.45 Crores is due to Non revision of tariff since 2004 and escalation of cost in O&M of the water & sewerage systems.

4. The total income during the year 2015-16 was in the order of ₹ 901.26 Crores and the expenditure was ₹ 1051.71 Crores, resulting in a net deficit of ₹ 150.45 crores, against the deficit of ₹ 277.20 Crores during the previous year (2014-15). The Board is providing effective and efficient services and continues to strive to achieve its goals and objectives, though the total revenue income is lesser than the total expenditure.
5. Every year the Board executes various projects to augment water supply and other related works. Therefore, a portion of interest amount is deducted from the total interest accrued for the year and the same is added to the project expenditure as capitalized interest. During the year a sum of ₹ 8.76 Crores was deducted from the total interest of ₹ 90.68 Crores and capitalized. After capitalization of interest, a sum of ₹ 81.92 Crores has been shown as interest under the Income and Expenditure Account for the year 2015-16.
6. For capacity enhancement and improvements to water supply and sewerage system, the Board has implemented two Desalination Plants, one at Minjur on DBOOT basis and another at Nemmeli with Government of India assistance and several other projects under Jawaharlal Nehru National Urban Renewal Mission (JNNURM), TNUDF III, JICA/JAIOA scheme etc.,

B. **PHYSICAL**

Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) was constituted in August 1978. CMWSSB is vested with the responsibility of promoting and securing the planned development of water supply and sewerage services, operation, maintenance and creation of the required infrastructure and implementation of prospective plans to meet the requirements of Chennai Metropolitan area for the present and future.

Chennai Metropolitan Water Supply and Sewerage Board is currently providing services through 15 Area Offices and 200 Depot Offices covering an area of 426 Sq.Km with a population of 67.27 lakhs (as per 2011 census). It also serves some local bodies, bulk and industrial consumers.

Local bodies and major bulk consumers of CMWSSB

Sl. No.	Local bodies and Bulk consumers	Water supplied (in Million Litres per day)
1	Pallavaram Municipality	2.90
2	Pammal Municipality	3.00
3	Anskaputhur Municipality	1.90
4	Avadi Municipality	1.10
5	Pozhichalur Village Panchayat	1.20
6	Cowl Bazaar Village Panchayat	0.25
7	Railways & Government Hospital	10.00
8	Aavin	0.40
9	Cantonment (Defence Offices & Quarters)	1.60
10	Industrial consumers	22.88
	Total	45.23

1. **Sources of Drinking Water for Chennai City**

Chennai city draws water from surface sources, desalination plants and ground water to meet its water requirement.



1.1 Surface Water

Surface water is one of the main sources for Chennai. The reservoirs at Poondi, Redhills (Puzhal), Chembarambakkam and Cholavaram near Chennai city, Veeranam lake in Cuddalore district and the Telugu Ganga Project are the main surface water sources.

Storage capacity of reservoirs supplying water to Chennai

SLNo	Reservoir	Storage Capacity (In Mcft)
1	Poondi	3,231
2	Redhills (Puzhal)	3,300
3	Chembarambakkam	3,645
4	Cholavaram	881
5	Veeranam	1,465
	Total	12,522

New Veeranam water supply project was commissioned in 2004 as an additional source of water to Chennai city. It supplies 180 MLD of water to the city from Veeranam lake throughout the year.

Krishna water is being received for Chennai city from Kandaleru reservoir situated in Andhra Pradesh under Telugu Ganga Project. As per the agreement signed between the Governments of Tamil Nadu and Andhra Pradesh, 12 TMC of water per annum is to be supplied to Chennai for its drinking water needs. The water receipts have been between 4.5 TMC to 8.2 TMC during the past many years. In 2014-15, the receipt of water till 31.08.2015 is 5.569 TMC.

During the past three years, rainfall has been less than normal and this is the third consecutive year of deficit rainfall in the catchment areas of reservoirs. This has caused a serious strain on the ability of the Board to maintain city water supply.

Rainfall in the catchment areas of the city reservoirs

Year	Rainfall in mm		Deficit in %
	Normal	Actual	
2012	1293.42	981.80	-24.09
2013	1297.50	1064.87	-17.93
2014	1286.21	1025.80	-20.25

1.2 Desalination Plants

The availability of surface water is mainly dependent on the monsoon. Failure of monsoons leads to acute shortages in reservoir levels and affects water supply to Chennai city. The non-availability of perennial rivers near Chennai adds to the challenge. To drought proof the growing metropolis, the Hon'ble Chief Minister in a far sighted move, announced the setting up of desalination plants in 2003-04. The Government has established two 100 MLD desalination plants which are currently operational. These plants now contribute about 1/3rd of the city's supply.



1.2.1 Desalination plant at Kattupalli, Minjur

A 100 MLD (Million litres per day) desalination plant at Kattupalli, Minjur, built on Design, Build, Own, Operate and Transfer (DBOOT) basis is under operation and supplies water to the northern parts of Chennai city viz., Manali, Madhavaram, Ennore, Kathivakkam, Thiruvottiyur, Tondiarpet and Vyasarpadi.

1.2.2 Desalination plant at Nemmeli

A 100 MLD desalination plant was constructed at Nemmeli at a cost of ₹ 805.08 crore with assistance from Government of India and Government of Tamil Nadu. The plant was inaugurated on 22.02.2013 by the Hon'ble Chief Minister. The plant is under operation and water from this plant is being supplied to the southern parts of Chennai viz., Sholinganallur, Neelangudi, Injambakkam, Karapakkam, Semmancherry, Thorapakkam, Perungudi, Kottivakkam, Palavakkam, Thiruvannamiyur, Velachery, Taramani, Pallipattu, Adyar, Besant Nagar, Nandanam, MRC Nagar, Raja Annamalaipuram and Mylapore.

Deficit monsoons for the past three years in the catchment areas have increased our reliance on desalination plants and these have helped ease the water supply situation in the city.

1.3 Ground water

Ground water aquifers at Minjur, Tamarsipakkam, Poondi and Neyveli supply about 60 MLD of water to the city.

1.4 Operations and Maintenance of water supply

The City's water supply has been reorganised due to the continuous failure of the monsoon in the years 2012 - 2014. Presently, the Board is supplying 540 MLD (Million litres per day) of water to Chennai city. Various projects have been taken up by CMWSSB to provide comprehensive water supply and sewerage services to the city's newly added areas.

CMWSSB operates water treatment plants at Kilpauk, Redhills, Chembarambakkam, Surapattu, Vadakuthu and desalination plants at Kattupalli-Minjur and Nemmeli for providing safe and potable water to the city.

Treatment capacity of water treatment plants

Water treatment plants	Treatment capacity in MLD
Kilpauk	270
Redhills	300
Chembarambakkam	530
Vadakuthu	180
Surapattu	14
Desalination plants at Kattupalli-Minjur and Nemmeli	200
Total	1494

Since its inception in 1978, the Board's water supply operations have seen a manifold increase.



Growth in Water supply operations

Description	In 1978	In 2015
Operational area (sq.km)	174	426
Population (in lakh)	28.60	71.88
Water Supply (MLD)	240	540
Length of water mains (Km)	1,250	6,520
Distribution stations	3	74
Water treatment capacity (MLD)	182	1,494
No. of Consumers	1,16,000	6,61,405

The total revenue expenditure for the year 2014-15 is estimated at ₹ 987.26 crore. The total income of the Board is estimated at ₹ 497.53 Cr. Of this, the income from Water and Sewerage Taxes is ₹ 119.10 crore, water and sewerage charges is ₹ 335.65 crore and other income is ₹ 42.78 crore. The Government of Tamil Nadu provides grants to the Board for purchase of desalinated water and other purposes. CMWSSB received a sum of ₹ 227.80 crore as grant during the year 2014-15.

2. Water supply- New Schemes

For augmenting water supply to under served areas with special attention on covering the 42 newly added areas to Chennai Corporation, CMWSSB is taking up various schemes.

Stage of Water supply schemes in 42 added areas

Total No. of added areas	Water supply works completed	Works under Progress	Works to be taken up
42	8	28	6

Water supply schemes have been completed in 8 added areas viz. Kathivakkam, Valasarvaikkam, Porur, Thiruvottiyur, Ambattur, Maduravoyal, Alandur and Meenambakkam.

In 28 added areas namely Nerikundram, Ullagaram-Puzhuthivakkam, Madhavaram, Ramapuram, Nolambur, Karambakkam, Manapakkam, Nandam-bakkam, Sholinganallur, Karapakkam, Injambakkam, Okktyum Thorapakkam, Edayancharvadi, Sadayan-kuppam, Kadapakkam, Theeyambakkam, Vadaperumbakkam, Manali, Surapattu, Kathirvedu, Puchagaram, Puzhal, Pallikaranai, Kottivakkam, Chinnasekkadu, Mugalivakkam, Perungudi and Palavakkam, water supply schemes are in progress.

Water supply schemes in 6 added areas namely Mathur, Jalladampettai, Madipakkam, Neelankarai, Semmancheri and Uthandi will be taken up with Government of India / Chennai Mega City Development Mission funds shortly.

2.1 Desalination Plants Announced 400 MLD Desalination Plant at Perur along ECR, Chennai

The Hon'ble Chief Minister of Tamil Nadu has announced on the floor of assembly in 2013 that a 400 MLD desalination Plant would be constructed at Pattipulam along the East Coast Road in South Chennai.



As the land proposed for the project was found to have some legal problems, the location was shifted to a nearby site at Perur on the East Coast Road.

The Detailed Project Report for setting up the 400 MLD capacity SWRO desalination plant at Perur, has been prepared at a cost of ₹ 4070.67 Cr. This includes the product water conveyance main also. The DPR has been sent to Government of India to be posed for funding under JICA, and is under process.

2.2 150 MLD Desalination Plant at Nemmeli along ECR Chennai

An announcement under rule 110 by the Hon'ble Chief Minister was made on the floor of assembly on 16.04.13 that another 150 MLD capacity desalination plant will be set up in the vacant land of 10.50 acres available in the premises of the 100 MLD desalination plant at Nemmeli.

The Detailed Project Report for setting up 150 MLD capacity desalination plant in the available vacant land of the existing Nemmeli desalination plant has been prepared at a cost of ₹ 1371.86 Cr. This includes the product water conveyance Main also. The Government of Tamil Nadu has accorded Administrative sanction for DPR. The DPR has been sent to Government of India for seeking funds from Government of India and assistance from KfW and the tender will be invited shortly.

2.3 Laying of water supply transmission main to Tambaram, Pallavaram and Pammal areas

A project to lay a 1200 mm transmission main from Poonamallee bye-pass junction to Tambaram for a length of 22 kms, to extend water supply to Tambaram, Pallavaram, Pammal and other local bodies has been sanctioned by Government at a cost of ₹ 93.48 Cr. from the Infrastructure and Amenities Fund and work is completed.

2.4 Laying second water transmission main from Chembarambakkam to Poonamallee bye pass junction

The work of laying, a second pipe line of 2000 mm diameter from Chembarambakkam Water Treatment Plant to Poonamallee bye-pass junction for a length of 6.5 Kms to convey the full quantity of 530 MLD of treated water from Chembarambakkam to the city, at an estimated cost of ₹ 41.35 Cr. is under progress.

2.5 Laying of pipeline from the newly formed reservoir at Kannankottai and Theruvokandigai to convey water to the poondi reservoir

The work of laying 900 mm dia. pumping main for transmission of water from the proposed Theruvokandigai reservoir to Krishna canal for a length of 17 Km is under progress. The estimated cost is ₹ 93.77 crore.

2.6 Water Supply Schemes under the Chennai Mega City Development Mission (CMCDM)

The Chennai Mega City Development Mission to improve infrastructure and basic amenities in Chennai city with special focus on the newly added areas was launched by the Hon'ble Chief Minister. The status of the works taken up under the scheme is as follows :-



Water supply works taken up under CMCDM

Sl. No.	Name of the scheme	Est. cost (₹ in Crs)	Status of works	
2011-12				
1	Laying of water supply lines in uncovered areas of Slums	23.56	Works completed	
2	Providing Under Ground Tanks and Water filling points in Newly Added areas	12.23		
3	Replacement of choked water mains / PVC mains	20.71		
2012-13 Water Supply Schemes				
4	Nolambur	18.00	Nolambur, Karambakkam, Nandambakkam and Injambakkam works are completed. Regarding Ramapuram, Manapakkam and Okkiyam thoraipakkam, 52% of works are completed. Termination letter issued on 28.11.2018 for slow progress of work. Action has been initiated for preparation of estimate for the balance works for inviting retender. Remaining works are under progress.	
5	Karambakkam	20.56		
6	Ramapuram	32.54		
7	Manapakkam	10.92		
8	Nandambakkam	6.00		
9	Okkiyam-Thoraipakkam	46.00		
10	Injambakkam	22.30		
11	Sholinganallur-Karapakkam	35.70		
2013-14 Water Supply Schemes				
12	Sadayankuppam	28.21		Work in Progress
13	Edayanchavadi			
14	Kadapakkam			
15	Manali		21.33	
16	Pallikaranai		42.82	
17	Mugalivakkam		31.37	
18	Chinnasekkadu	11.00		
19	Kottivakkam	23.00	Work in Progress	
20	Perungudi	45.00		
21	Palavakkam	30.00		
22	Vadaperumbakkam & Theeyumbakkam	20.00	Work in Progress	



Sl. No.	Name of the scheme	Est. cost (₹ in Crs)	Status of works
23	Surapattu	82.61	87% of works completed. Now, Termination letter issued on 20.11.2019 for slow progress of work. Action has been initiated for preparation of estimate for the balance works for inviting tender.
24	Kathirvedu		
25	Puthagaram		
26	Puzhal		
Total		588.86	

2.7 Jawaharlal Nehru National Urban Renewal Mission (JnNURM)

Under the Jawaharlal Nehru National Urban Renewal Mission, the Government of India was giving a grant of 35% and the State Government was contributing 15% of the project cost as an interest free loan. The status of the works taken up under the scheme are:-

Sl. No.	Name of the scheme	Est. cost (₹ in Crs)	Status of works
1	Improvement works to water supply system in Chennai city	322.00	Works completed
Water Supply Schemes			
2	Maduravoyal	23.30	Works completed
3	Thiruvottiyur	85.11	
4	Ambattur	267.08	
5	Alandur improvement works	64.39	
6	Ullagaram-Puzhuthivakkam	24.24	Work in Progress.
7	Nerkundram (Balance works)	17.28	Work in Progress.
Total		803.40	
Deposit works for other Local Bodies			
1	Avadi	103.84	Most of the scheme work completed and commissioned. Balance works are in progress.
2	Sriperumbudur	42.20	Work in Progress.
Total		146.04	

JnNURM scheme has since been discontinued by the Government of India.

2.8 Japan International Cooperation Agency (JICA)

Madhavaram water supply scheme has been taken up with JICA assistance. The details are as follows:-



Chennai Metropolitan Water Supply and Sewerage Board

Scheme	Est. cost (₹ In Crs)	Status of works
Madhavaram	55.00	76% of works are completed. Termination letter issued on 16.11.2018 due to slow progress of work. Action has been initiated for preparation of estimate for the balance works for inviting resender.

2.9 Tamil Nadu Urban Development Project – III (TNUDP-III)

Sl. No.	Scheme	Est. cost (₹ In Crs)	Status of works
1	Pammal	43.10	Work in Progress.
2	Pallavaram	99.95	Work in Progress.
	Total	143.05	

3. Sewerage services

CMWSSB is providing sewerage services to Chennai city including waste water treatment, reuse of treated water and power generation from Sewage Treatment Plants. Sewage Treatment Plants at Chennai have an installed capacity of 727 MLD.

Sewage generated from houses and other buildings is collected through the sewerage system of a length of 4500 kms. This sewage is taken to 266 sewage pumping stations. The sewerage system of the city is divided into 5 zones with independent zonal collection, conveyance, treatment and disposal facilities. The collected sewage from pumping stations is conveyed to 12 Sewage Treatment Plants.

Capacity of Sewage Treatment Plants

Sl. No.	Treatment Plant	Capacity in mld
1	Nesapakkam (3 units)	117
2	Kodungatyr (3 units)	270
3	Koyambedu (3 units)	214
4	Perungudi (3 units)	126
	Total - 12 units	727

**Sewage Treatment Plants under construction**

Sl. No.	Location	Capacity in mld	Estimate cost (₹ in Crore)	Present stage
1	Thiruvottiyur	31	26.33	Work in Progress
2	Sholinganallur-I	18	33.71	All Works are completed. Commissioning works are under progress.
3	Sholinganallur-II	54	65.97	51% of works are completed and balance works are in progress.
Total		103	126.01	

The sewerage services of the Board have increased manifold since its inception in 1978.

Improvements in sewerage services

Sl. No.	Description	In 1978	In 2018
1	Length of sewer mains (in Km)	1,223	4500
2	No. of pumping stations	58	253
3	Sewage treatment capacity (MLD)	57	727
4	No. of consumers	1,14,000	8,43,623

During 2017-18, 11,961 house service connections have been effected in Chennai City.

3.1 Sewerage Schemes taken up under the Chennai Mega City Development Mission (CMCDM)

Under this fund, the following schemes have been taken up in the newly added areas:

Stage of underground Sewerage Schemes in 42 added areas.

Total No. of added areas	Works completed	Works in Progress	Works to be taken up		To be Dropped
			Tender Stage	DPRs under preparation	
42	9	12	4	14	3

Under ground sewerage schemes have been completed in 9 of the 42 added areas. They are Valasaravakkam, Alandur, Madhavaram, Meenambakkam, Maduravoyal, Surapattu, Puthagaram, Kathirvedu and Nolambur.

In 12 added areas namely Perungudi, Porur, Ullagaram-Puzhuthivakkam, Pallikarasa, Ambattur, Thiruvottiyur, Kathivakkam, Ramapuram, Sholinganallur, Karapakkam, Mugalivakkam and Nerlundram under ground sewerage schemes are under progress.

The UGSS for Edayanchavadi, Sadayankuppam and Kadapakkam are proposed to be dropped due to low population density. It will be taken up in 2021 after the required population growth.



The UGSS for Manali, Chinna sekkadu, Manapakkam and karapakkam are in tender stage.

DPR under preparation for the Balance of 14 added areas viz. Injambakkam, Okkiyam-Thoraipakkam, Jalladampettai, Nandambakkam, Kottivakkam, Palayakkam, Neolankarai, Madipakkam, Puzhal, Mathur, Theeyambakkam, Vadaperumpakkam, Semmencherry and Uthandi.

Sewerage Schemes taken up under CMCDM

Sl. No.	Name of the Scheme	Est. cost (₹ in Crs)	Status of works
2011-12			
1	Laying of force mains between pumping stations	9.26	Works completed
2	Enlargement of Sewage Pumping Mains	20.39	
3	Insertion of UGSS openings in Mogappair, construction of Roadside pumping stations with submersible pumpsets	14.08	
4	Improvement to existing Sewage Pumping stations	11.24	
5	Enlargement of sewer mains	31.18	
6	Procurement of sewerage maintenance equipments	9.90	Machines purchased and deployed
7	Re-routing and enlargement of Sewage Pumping Mains and allied works	36.55	Works completed
2012-13 Under Ground Sewerage Schemes			
8	Kathivakkam	86.15	Work in Progress.
9	Sholinganallur-Karapakkam	110.90	
10	Ramapuram	48.50	66% of works completed. Now, Termination notice issued to the contractor due to slow progress of work. Action has been initiated for preparation of estimate for the balance works for inviting retender.
11	Procurement of sewerage maintenance equipments	15.20	Machines purchased and deployed
2013-14 Under Ground Sewerage Schemes			
12	Thiruvottiyur (Annal Sivagami Nagar)	8.51	Works completed
13	Nolambur	26.01	
14	Surapattu	35.00	
15	Puthagaram & Kathirvedu	60.00	
16	Mugaliyakkam	77.50	Work just commenced
Total		600.37	



3.2 Jawaharlal Nehru National Urban Renewal Mission (JNNURM)

Under the Jawaharlal Nehru National Urban Renewal Mission, the Government of India was giving a grant of 35% and the State Government contribution is 15% as an interest free loan. The works taken up under the scheme are:-

Sl. No.	Name of the Scheme	Est. cost (₹ in Crs)	Status of works
1	Providing water supply and sewerage facilities along Rajiv Gandhi Salai	41.77	Works completed
Under Ground Sewerage Schemes			
2	Ullagaram-Puzhuthivakkam	28.08	Works completed
3	Ambattur (Package-II, III, IV & V)	130.91	Works completed under Packages III, IV & V). For Package II, retender is invited for balance works in 6 packages. Out of which, works orders have been issued for 5 packages and work are under progress for the remaining 1 package tenders are under evaluation. All works will be completed by Dec.2019
4	Maduravoyal	57.45	Works completed
5	Porur	38.29	Works completed but can be commissioned only after completion of Ramapuram UGSS
6	Perungudi	20.19	Work in Progress
7	Pallikaranai	58.61	94% of Works completed. Now, action is being initiated for terminate the contractor due to slow progress of work. Action has been initiated for preparation of estimate for the balance works for inviting retender.
Total		375.30	
Deposit works for other local bodies			
8	Avadi Municipality	158.05	Work in Progress
9	Tambaram Municipality	160.97	Work in Progress
10	Thirumazhisai Town Panchayat	20.47	Works completed



Chennai Metropolitan Water Supply and Sewerage Board

Sl. No.	Name of the Scheme	Est. cost (₹ in Cro)	Status of works
11	Sriperumbudur Town Panchayat	47.40	79% of Works completed. Now, action is being initiated for terminate the contractor due to slow progress of work. Action has been initiated for preparation of estimate for the balance works for inviting retender
Total		386.89	

3.3 Tamil Nadu Urban Development Project - III (TNUDDP- III)

Under this scheme, assistance has been provided for the following three works:-

Works taken up under TNUDDP - III

Sl. No.	Name of the Scheme	Est. cost (₹ in Cro)	Status of works
1	Madhavaram – UGSS	50.22	Works completed
2	Thiruvottiyur – UGSS	87.63	Retender is invited for the balance works after terminate the contractor due to slow progress of work and is under evaluation.
3	Ambatur Phase – I – UGSS	65.75	Works completed
Total		203.60	

3.4 Power generation from Sewage treatment plants

In the last 8 years, CMWSS Board has commissioned 6 Nos. of Sewage Treatment Plants (STPs) with a total capacity of 378 MLD. In these plants, electricity is generated by using Biogas produced from the plants. This generated power is used to operate the sewage treatment plants.

Power generation from Sewage Treatment Plants 2014-15

Sl. No.	Sewage treatment plant	Treatment capacity in mld	Average Power Produced in KwH/day	Total power requirement in KwH/day	Percentage of power requirement met through in house production
1	Kodungaiyur	110	14,000	13,500	103.70
2	Koyambedu	60	5,000	9,000	55.55
3	Nesapakkam-I	40	5,800	5,800	100.00
4	Nesapakkam-II	54	3,000	9,000	33.33
5	Perungudi I	60	7,200	8,500	84.71
6	Perungudi II	54	7,000	8,500	82.35
Total		378	42,000	54,300	77.35



This has reduced the dependence of the STPs on electricity drawn from the TANGEDCO Grid by about 77%. In the last 8 years, electricity worth ₹ 39.60 Crore has been produced. In 2014-15, the value of electricity produced is ₹ 6.25 Cr. This initiative is proposed to be continued in the upcoming Sewage Treatment Plants wherever feasible.

The utilization of biogas for production of power reduces the emission of green house gases such as Methane (CH₄) and Carbon dioxide (CO₂) into the atmosphere and also consumption of Electricity from TANGEDCO.

3.5 Mechanisation of sewer cleaning operations

The Board has mechanized the operation and maintenance of the city's sewerage system. CMWSSB has procured adequate number of machines and is presently operating 119 jet Rodding machines, 241 Desilting machines, 28 jetting cum suction machines and 43 Super Sucker machines for effective maintenance of its sewer system.

3.6 Preventive maintenance of sewer system

CMWSSB is maintaining sewer lines of 3994 kms. to serve a total 7,76,488 consumers which includes 6,61,405 consumers having water connections. Chennai city has a flat terrain and this is a challenge.

CMWSSB has now implemented preventive maintenance for its sewer network. According to the field conditions, sewers have been classified depending on the periodicity of maintenance required. Accordingly, the equipment is deployed and the sewer network is maintained by the Board.

The number of sewer blocks in the city has considerably reduced due to the implementation of Preventive maintenance. The number of sewer block complaints has come down by 38.87%.

3.7 Plugging of sewage outfalls

During the Budget 2012-13, it was proposed to plug 337 sewage outfalls at a cost of ₹ 300 Crore. This would prevent untreated sewage from entering Chennai city water ways. This sewage would be appropriately treated and disposed.

In the first phase, works for plugging 179 of the 337 outfalls were taken up and are in progress. An amount of ₹150 Crore was sanctioned under Infrastructure and Amenities Fund. These works will be completed by December 2019.

In the second phase, to carry out the balance works for plugging, 158 sewage outfalls, Government has sanctioned ₹163 crore vide G.O.(Ms)No.158, MA&WS (MW) Dept. Dated 11.12.2014 and the works are under progress.

3.8 Reuse of raw sewage and secondary treated water in Industries

CMWSSB is also supplying 36 MLD of secondary treated water to M/s. Chennai Petroleum Corporation Ltd., M/s. Madras Fertilizer Ltd., and M/s. Manali Petro Products Ltd. The revenue accrued to the Board is ₹13.50 crore for the year 2014-15.



3.9 New Proposals

3.9.1 Recycling of waste water - 45 MLD TTRO Plant at Keyambedu

Administrative sanction has been accorded by the Government of Tamil Nadu for construction of a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) plant at Keyambedu to supply treated water to the industries at Irungakamkottai / Sriperumbudur / Oragadam etc. at a cost of ₹ 394 crore. Now, the work is under progress.

3.9.2 Recycling of waste water - 45 MLD TTRO Plant at Kodungaiyur under TNSUDP

The Hon'ble Chief Minister of Tamil Nadu has announced on the floor of the Assembly that Government would promote reuse of treated waste water for industrial purposes in place of fresh water. To cater to the Industries and Power plants in North Chennai, another 45 MLD TTRO Plant would be set up at Kodungaiyur at a cost of ₹ 255 crore with funding from TNSUDP. Administrative approval has been accorded by Government of Tamil Nadu and the work on this project is under progress.

4. Rain Water Harvesting

Thanks to the vision and efforts of the Hon'ble Chief Minister, CMWSSB started implementing the rain water harvesting programme in 2002. This made Chennai a pioneer in Rain water harvesting. The Board has taken the following steps to popularise rainwater harvesting in Chennai.

To avail new/renewal of water and sewer connections, installation of Rain Water Harvesting structures has been made mandatory for all buildings irrespective of size and area.

In Chennai city about 7,20,000 buildings exist with a total no. of 8,27,800 RWH structures. During the year 2014-15, a total number of 8,615 rainwater harvesting structures were constructed. Recharge potential from Rain Water Harvesting structures is 2.30 TMC. Awareness campaigns and special camps are conducted before monsoon every year to encourage consumers to maintain the structures properly. The Area / Depot Engineers are monitoring the installation and maintenance of Rainwater Harvesting Structures in Chennai city.

Following the implementation of the Rain Water Harvesting scheme, ground water levels and its quality is improving every year, especially during the monsoon period.

5. Maintenance of Lakes

There are 21 lakes in the Chennai city area with a water spread area of 641.58 Hectares. Lakes serve the important function of impounding rain water and recharging the under ground water table. The recharge potential of these lakes is 1.05 TMC. CMWSSB intends to ensure the integrity of these lakes so that their recharge potential is fully harnessed.

6. Grievance Redressal

The Board has taken the following steps to improve service delivery, ensure transparency and speedily redress grievances of consumers.



6.1 24x7 Complaints Registration & Monitoring System

A 24x7 complaint cell is functioning at the CMWSSB Head Office to receive, register and monitor the grievances of the consumers. Consumers can register their complaints / grievances either in person or by dialing 45674567. The registered complaints are immediately transferred online and also by SMS to the respective Depot Engineer to rectify the defects. Accordingly, rectification of the defects is being attended to immediately. On an average, 85 complaints are being registered in the complaint cell daily. The grievance redressal system has been revamped to make it user friendly. A separate grievance redressal and facilitation office has been set up to serve the consumers.

CMWSSB has implemented Short Message Service (SMS) to enable the consumer can register a complaint over mobile phone and get an acknowledgement for the complaint from the Board through SMS. Action taken is informed to the consumer through SMS after redressal of the complaint.

6.2 Complaint redressal through website

CMWSSB has a website www.chennaiwater.tn.nic.in. Consumers can register their complaints through the Board's website. The complaints registered are forwarded to the respective Area Offices and the same are redressed as per the Citizens' Charter.

6.3 Open House Meeting

The Board conducts Open House Meetings in all the Area Offices between 10.00 A.M. and 1.00 P.M. on the 2nd Saturday of every month to improve service delivery. The Senior Officers of the Board preside over these meetings. The complaints / grievances / suggestions received during these meetings are also attended to immediately.

HARMANDER SINGH
PRINCIPAL SECRETARY TO GOVERNMENT



FINANCIAL SUMMARY – FIVE YEARS AT A GLANCE

(Rs. in Crores)

PARTICULARS	2015-16	2014-15	2013-14	2012-13	2011-12
A. INCOME					
Sale of water & Water and Sewerage Tax	448.56	440.37	372.4	367.11	341.38
Other Income	452.70	290.47	343.4	240.47	188.78
Total Income (A)	901.26	730.84	715.80	607.58	530.16
B. EXPENDITURE					
Salaries & Wages	196.72	192.36	157.27	153.71	158.66
Repairs and Maintenance	558.79	465.43	439.47	327.3	263.27
Interest	81.92	91.39	90.57	96.05	93.99
Depreciation	166.86	165.59	146.38	138.43	130.15
Other Expenditure	47.41	93.28	64.84	59.17	65.81
Total Revenue Expenditure (B)	1051.70	1008.05	898.53	774.66	711.88
Excess of Expenditure over Income (A-B) – Deficit	-150.44	-277.21	-182.73	-167.08	-181.72
Contributions	1627.25	1570.10	1483.68	1423.72	1231.77
Grants from Government	3566.50	3145.59	2507.97	1939.42	1485.63
Long term borrowings	1177.33	1219.83	1267.69	1310.30	1370.32
Fixed Assets	6240.63	5903.27	5452.42	4857.10	4480.87
Net Current Assets	-1038.80	-986.56	-934.69	-742.52	-784.95
Accumulated Surplus / Deficit	-1169.25	-1018.81	-741.60	-558.87	-391.76
No. of employees as at the end of year	3,094	3,234	3,483	3,573	3,929



REASONS FOR THE DELAY IN PLACING THE ANNUAL REPORT WITH ANNUAL ACCOUNTS OF CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD FOR THE YEAR 2015-16 ON THE TABLE OF THE HOUSE OF LEGISLATIVE ASSEMBLY

1.	a)	When the Annual Accounts have to be finalized by the Government Companies as per the instructions of the Finance Department.	30.06.2016
	b)	The actual date of finalization of accounts	17.05.2018
	c)	The reason for not finalizing the accounts on due date:	Due to integration of accounts of 42 local bodies into re-organisation cities there was considerable delay in completion of accounts. Rollout of accounts from Unix to Oracle in added areas has taken place during 2014-15 and subsequently delay for the financial year 2015-16.
2.	a)	When the auditors have to be appointed to audit the accounts	As and when C&AG recommends the Auditor and approved by Government
	b)	The date on which the auditors were appointed	22.09.2017
	c)	The reasons for not appointing the auditor on the due date	Board Meeting was not held for a period of seven months
3.	a)	When the auditors have to finalise the audit	31.10.2016
	b)	The actual date of finalizing the audit	17.05.2018
	c)	The reasons for not finalizing the audit on the due date	The accounts of erstwhile Local Bodies have been integrated with CMWSS Board accounts. Due to this reason, the Accounts could not be produced to Auditors within the scheduled time for the years 2011-12 to 2013-14. The Rollout of accounts from Unix to Oracle in added areas has taken place during 2014-15. Hence, there is subsequent delay occurred in completion 2015-16 accounts.
4.	a)	When the comments of the Accountant General have to be obtained	Not Applicable
	b)	The actual date on which the comments were received	Not Applicable
	c)	The reasons for delay if any	Not Applicable



Chennai Metropolitan Water Supply and Sewerage Board

5.	a)	The date on which the Annual Accounts have to be placed before Board Meeting	30.11.2016
	b)	The date on which actually placed	05.07.2018
	c)	The reasons for delay	The accounts of erstwhile Local Bodies have been integrated with CMWSS Board accounts. Due to this reason, the Accounts could not be produced to Auditors within the scheduled time for the years 2011-12 to 2013-14. The Rollout of accounts from Unix to Oracle in added areas has taken place during 2014-15 there is subsequent delay occurred in completion 2015-16 accounts.
6.	a)	The date on which the printed annual report have to be received	31.12.2016
	b)	The reasons for not receiving on due date	The accounts of erstwhile Local Bodies have been integrated with CMWSS Board accounts. Due to this reason, the Accounts could not be produced to Auditors within the scheduled time for the years 2011-12 to 2013-14. The Rollout of accounts from Unix to Oracle in added areas has taken place during 2014-15 there is subsequent delay occurred in completion 2015-16 accounts.
7.	a)	The date on which the accounts have to be sent to the Government	31.12.2016
	b)	The actual date on which the accounts were sent	25.10.2018
	c)	The reason for delay if any	-
8.	a)	The date on which the annual report were received by the Government	-
	b)	The time taken to review the report	-
	c)	Reasons for delay	-
9.	a)	The date on which the annual accounts should be placed on the table of the legislative assembly	Before 31.03.2017
	b)	The date on which the annual accounts should be sent to legislative assembly	Before ensuing session

HARMANDER SINGH
PRINCIPAL SECRETARY TO GOVERNMENT