

Annexure 6.1

| Proposed Percapita- Domestic Supply at Design Years | | | | | |
|-----------------------------------------------------|----------------------------|------|------|------|------|
| Sl. No. | Description | 2015 | 2020 | 2035 | 2050 |
| | | lpcd | lpcd | lpcd | lpcd |
| | CHENNAI CORPORATION | | | | |
| 1. | CHENNAI CORE CITY | 110 | 150 | 150 | 150 |
| | MUNICIPALITIES | | | | |
| 2. | Kathivakkam | 90 | 110 | 135 | 150 |
| 3. | Thiruvottiyur | 90 | 110 | 135 | 150 |
| 4. | Manali | 90 | 110 | 135 | 150 |
| 5. | Madhavaram | 90 | 110 | 135 | 150 |
| 6. | Ambattur | 90 | 110 | 135 | 150 |
| 7. | Maduravoyal | 90 | 110 | 135 | 150 |
| 8. | Valasarawakkam | 90 | 110 | 135 | 150 |
| 9. | Alandur | 90 | 110 | 135 | 150 |
| 10. | Ullagaram-Puzhuthivakkam | 90 | 110 | 135 | 150 |
| | TOWN PANCHAYATS | | | | |
| 18. | Chinnasekkadu | 90 | 110 | 135 | 150 |
| 19. | Puzhal | 90 | 110 | 135 | 150 |
| 20. | Porur | 90 | 110 | 135 | 150 |
| 21. | Nandambakkam | 90 | 110 | 135 | 150 |
| 22. | Meenambakkam | 90 | 110 | 135 | 150 |
| 23. | Perungudi. | 90 | 110 | 135 | 150 |
| 24. | Pallikaranai | 90 | 110 | 135 | 150 |
| 25. | Sholinganallur. | 90 | 110 | 135 | 150 |
| | VILLAGE PANCHAYATS | | | | |
| VP.1 | Edayanchavadi | 40 | 90 | 110 | 150 |
| VP.2 | Sadayankuppam | 40 | 90 | 110 | 150 |
| VP.3 | Kadapakkam | 40 | 90 | 110 | 150 |
| VP.4 | Thiyambakkam | 40 | 90 | 110 | 150 |
| VP.5 | Mathur | 40 | 90 | 110 | 150 |
| VP.6 | Vadaperumbakkam | 40 | 90 | 110 | 150 |
| VP.7 | Soorapattu | 40 | 90 | 110 | 150 |
| VP.8 | Kathirvedu | 40 | 90 | 110 | 150 |
| VP.9 | Puthagaram | 40 | 90 | 110 | 150 |
| VP.10 | Nolambur | 40 | 90 | 110 | 150 |
| VP.11 | Karambakkam | 40 | 90 | 110 | 150 |
| VP.12 | Nerkunram | 40 | 90 | 110 | 150 |
| VP.13 | Ramapuram | 40 | 90 | 110 | 150 |
| VP.14 | Mugalivakkam | 40 | 90 | 110 | 150 |
| VP.15 | Manapakkam | 40 | 90 | 110 | 150 |
| VP.16 | Kottivakkam | 40 | 90 | 110 | 150 |
| VP.17 | Palavakkam | 40 | 90 | 110 | 150 |
| VP.18 | Neelankarai | 40 | 90 | 110 | 150 |
| VP.19 | Injambakkam | 40 | 90 | 110 | 150 |
| VP.20 | Karapakkam | 40 | 90 | 110 | 150 |
| VP.21 | OggiamThuraipakkam | 40 | 90 | 110 | 150 |
| VP.22 | Madippakkam | 40 | 90 | 110 | 150 |
| VP.23 | Jalladianpet | 40 | 90 | 110 | 150 |
| VP.24 | Semmanjeri | 40 | 90 | 110 | 150 |
| VP.25 | Uthandi | 40 | 90 | 110 | 150 |
| | REST OF CMA | | | | |
| | MUNICIPALITIES | | | | |
| 11. | Avadi | 70 | 90 | 110 | 135 |
| 12. | Poonamallee | 70 | 90 | 110 | 135 |
| 13. | Thiruverkadu | 70 | 90 | 110 | 135 |
| 14. | Pallavaram | 70 | 90 | 110 | 135 |
| 15. | Pammal | 70 | 90 | 110 | 135 |
| 16. | Anakaputhur | 70 | 90 | 110 | 135 |
| 17. | Tambaram | 70 | 90 | 110 | 135 |

| Proposed Percapita- Domestic Supply at Design Years | | | | | |
|-----------------------------------------------------|--------------------------------------------|--------------|--------------|--------------|--------------|
| Sl. No. | Description | 2015 lpcd | 2020 lpcd | 2035 lpcd | 2050 lpcd |
| | TOWN PANCHAYATS | | | | |
| 26. | Chitlapakkam | 70 | 90 | 110 | 135 |
| 27. | Kundrathur | 55 | 70 | 90 | 110 |
| 28. | Madambakkam | 70 | 90 | 110 | 135 |
| 29. | Mangadu | 70 | 90 | 110 | 135 |
| 30. | Peerkankaranai | 55 | 70 | 90 | 110 |
| 31. | Perungalathur | 55 | 70 | 90 | 110 |
| 32. | Sembakkam | 70 | 90 | 110 | 135 |
| 33. | Thiruneermalai | 70 | 90 | 110 | 135 |
| 34. | Minjur | 55 | 70 | 90 | 110 |
| 35. | Naravarikuppam | 70 | 90 | 110 | 135 |
| 36. | Thirumazhisai | 70 | 90 | 110 | 135 |
| 37. | Thirunindravur | 70 | 90 | 110 | 135 |
| | PANCHAYAT UNIONS | | | | |
| 38. | Minjur (4 villages) | | | | |
| 39. | Sholavaram (40 Villages) | | | | |
| 40. | Puzhal (20 villages) | | | | |
| 41. | Villivakkam (21 Villages) | | | | |
| 42. | Thiruvallur (1 village) | | | | |
| 43. | Poonamallee (42 villages) | | | | |
| 44. | Kundrathur (28villages) | | | | |
| 45. | Sriperumbudur (4 villages) | | | | |
| 46. | St.Thomas Mount (23 Viilages) | | | | |
| 47. | Kattankulathur (6 villages) | | | | |
| | VILLAGE PANCHAYATS IN CMA (189 VPs) | | | | |
| | UNION: MINJUR | | | | |
| 1 | Athipattu | 40 | 55 | 70 | 90 |
| 2 | Ennore | 40 | 55 | 70 | 90 |
| 3 | Nandiambakkam | 40 | 55 | 70 | 90 |
| 4 | Vallur | 40 | 55 | 70 | 90 |
| | UNION: SHOLAVARAM | | | | |
| 1 | Alamathi | 40 | 55 | 70 | 90 |
| 2 | Angadu | 40 | 55 | 70 | 90 |
| 3 | Arumandai | 40 | 55 | 70 | 90 |
| 4 | Athur | 40 | 55 | 70 | 90 |
| 5 | Attanthangal | 40 | 70 | 90 | 110 |
| 6 | Chinnamullaivoyal | 40 | 55 | 70 | 90 |
| 7 | Erumaivettipalayam | 40 | 55 | 70 | 90 |
| 8 | Girudalapuram | 40 | 55 | 70 | 90 |
| 9 | Kandigai | 40 | 55 | 70 | 90 |
| 10 | Karanodai | 40 | 55 | 70 | 90 |
| 11 | Kodipallam | 40 | 55 | 70 | 90 |
| 12 | Kummanur | 40 | 55 | 70 | 90 |
| 13 | Madiyur | 40 | 55 | 70 | 90 |
| 14 | Mafuskhanpet | 40 | 55 | 70 | 90 |
| 15 | Marambedu | 40 | 55 | 70 | 90 |
| 16 | Melsingilimedu | 40 | 55 | 70 | 90 |
| 17 | Nallur | 40 | 55 | 70 | 90 |
| 18 | Nayur | 40 | 55 | 70 | 90 |
| 19 | Nerkundram | 40 | 55 | 70 | 90 |
| 20 | Old Erumaivettipalayam | 40 | 55 | 70 | 90 |
| 21 | Orakkadu | 40 | 55 | 70 | 90 |
| 22 | Padianallur | 40 | 70 | 90 | 110 |
| 23 | Pannivakkam | 40 | 55 | 70 | 90 |
| 24 | Periyamullaivoyal | 40 | 55 | 70 | 90 |
| 25 | Perungavoor | 40 | 55 | 70 | 90 |
| 26 | Pudupakkam | 40 | 55 | 70 | 90 |

| Proposed Percapita- Domestic Supply at Design Years | | | | | |
|-----------------------------------------------------|---------------------------|--------------|--------------|--------------|--------------|
| Sl. No. | Description | 2015 lpcd | 2020 lpcd | 2035 lpcd | 2050 lpcd |
| 27 | Budur | 40 | 55 | 70 | 90 |
| 28 | Seemapuram | 40 | 55 | 70 | 90 |
| 29 | Sekkanjeri | 40 | 55 | 70 | 90 |
| 30 | Sembilivaram | 40 | 55 | 70 | 90 |
| 31 | Sholavaram | 40 | 55 | 70 | 90 |
| 32 | Siruniam | 40 | 55 | 70 | 90 |
| 33 | Soorapattu | 40 | 55 | 70 | 90 |
| 34 | Sothupakkam | 40 | 55 | 70 | 90 |
| 35 | Sothuperumbedu | 40 | 55 | 70 | 90 |
| 36 | Thirunilai | 40 | 55 | 70 | 90 |
| 37 | Valuthigaimedu | 40 | 55 | 70 | 90 |
| 38 | Vellivoyal | 40 | 55 | 70 | 90 |
| 39 | Vichoor | 40 | 55 | 70 | 90 |
| 40 | Vijayanallur | 40 | 55 | 70 | 90 |
| | UNION: PUZHAL | | | | |
| 1 | Alinjivakkam | 40 | 70 | 90 | 110 |
| 2 | Amulavoyal | 40 | 55 | 70 | 90 |
| 3 | Ariyalur | 40 | 55 | 70 | 90 |
| 4 | Athivakkam | 40 | 70 | 90 | 110 |
| 5 | Chettimedu | 40 | 55 | 70 | 90 |
| 6 | Elanthancheri | 40 | 70 | 90 | 110 |
| 7 | Grant Lyon | 40 | 70 | 90 | 110 |
| 8 | Kosappur | 40 | 70 | 90 | 110 |
| 9 | Lyon | 40 | 70 | 90 | 110 |
| 10 | Manjambakkam | 40 | 70 | 90 | 110 |
| 11 | Palavoyal | 40 | 70 | 90 | 110 |
| 12 | Payasambakkam | 40 | 70 | 90 | 110 |
| 13 | Sendrambakkam | 40 | 70 | 90 | 110 |
| 14 | Sirugavur | 40 | 55 | 70 | 90 |
| 15 | Thandalkalani | 40 | 70 | 90 | 110 |
| 16 | Theerthakiriyampattu | 40 | 70 | 90 | 110 |
| 17 | Vadagarai | 40 | 70 | 90 | 110 |
| 18 | Vaikkadu | 40 | 70 | 90 | 110 |
| 19 | Vilakkupattu | 40 | 70 | 90 | 110 |
| 20 | Vilangadupakkam | 40 | 70 | 90 | 110 |
| | UNION: VILLIVAKKAM | | | | |
| 1 | Adayalampattu | 40 | 90 | 110 | 135 |
| 2 | Alathur | 40 | 55 | 70 | 90 |
| 3 | Arakkambakkam | 40 | 55 | 70 | 90 |
| 4 | Ayappakkam | 40 | 90 | 110 | 135 |
| 5 | Chettiyaragaram | 40 | 90 | 110 | 135 |
| 6 | Kadavur | 40 | 55 | 70 | 90 |
| 7 | Karlapakkam | 40 | 55 | 70 | 90 |
| 8 | Kilakondaiyur | 40 | 55 | 70 | 90 |
| 9 | Melpakkam | 40 | 55 | 70 | 90 |
| 10 | Morai | 40 | 55 | 70 | 90 |
| 11 | Palavedu | 40 | 55 | 70 | 90 |
| 12 | Pammadukulam | 40 | 55 | 70 | 90 |
| 13 | Pandeswaram | 40 | 55 | 70 | 90 |
| 14 | Pothur | 40 | 55 | 70 | 90 |
| 15 | Pulikutti | 40 | 55 | 70 | 90 |
| 16 | Sivabudham | 40 | 90 | 110 | 135 |
| 17 | Tenambakkam | 40 | 55 | 70 | 90 |
| 18 | Thandalam | 40 | 90 | 110 | 135 |
| 19 | Vanagaram | 40 | 90 | 110 | 135 |
| 20 | Vellacheri | 40 | 55 | 70 | 90 |
| 21 | Vellanur | 40 | 55 | 70 | 90 |
| | UNION: THIRUVALLUR | | | | |

| Proposed Percapita- Domestic Supply at Design Years | | | | | |
|-----------------------------------------------------|---------------------------|--------------|--------------|--------------|--------------|
| Sl. No. | Description | 2015 lpcd | 2020 lpcd | 2035 lpcd | 2050 lpcd |
| 1 | Pakkam | 40 | 55 | 70 | 90 |
| | UNION: POONAMALLEE | | | | |
| 1 | Agaramel | 40 | 70 | 90 | 110 |
| 2 | Agraharam | 40 | 70 | 90 | 110 |
| 3 | Amudurmedu | 40 | 70 | 90 | 110 |
| 4 | Anaikattucheri | 40 | 70 | 90 | 110 |
| 5 | Annambedu | 40 | 70 | 90 | 110 |
| 6 | Ariyapancheri | 40 | 70 | 90 | 110 |
| 7 | Ayalcheri | 40 | 70 | 90 | 110 |
| 8 | Chembarambakkam | 40 | 70 | 90 | 110 |
| 9 | Chokkanallur | 40 | 70 | 90 | 110 |
| 10 | Goparasanallur | 40 | 90 | 110 | 135 |
| 11 | Kannapalaiyam | 40 | 70 | 90 | 110 |
| 12 | Karunakaracheri | 40 | 70 | 90 | 110 |
| 13 | Kattupakkam | 40 | 90 | 110 | 135 |
| 14 | Kavalacheri | 40 | 90 | 110 | 135 |
| 15 | Kilmanambedu | 40 | 70 | 90 | 110 |
| 16 | Kolappancheri | 40 | 70 | 90 | 110 |
| 17 | Korattur | 40 | 70 | 90 | 110 |
| 18 | Kuthambakkam | 40 | 70 | 90 | 110 |
| 19 | Melmanambedu | 40 | 70 | 90 | 110 |
| 20 | Melpakkam | 40 | 70 | 90 | 110 |
| 21 | Meppur | 40 | 70 | 90 | 110 |
| 22 | Mothirambedu | 40 | 70 | 90 | 110 |
| 23 | Nadukkuthagai | 40 | 55 | 70 | 90 |
| 24 | Narasingapuram | 40 | 70 | 90 | 110 |
| 25 | Nazarethpettai | 40 | 90 | 110 | 135 |
| 26 | Neman | 40 | 70 | 90 | 110 |
| 27 | Nemilicheri | 40 | 90 | 110 | 135 |
| 28 | Nochimedu | 40 | 70 | 90 | 110 |
| 29 | Palanjur | 40 | 70 | 90 | 110 |
| 30 | Panaveduthottam | 40 | 70 | 90 | 110 |
| 31 | Parivakkam | 40 | 90 | 110 | 135 |
| 32 | Parvatharajapuram | 40 | 70 | 90 | 110 |
| 33 | Pidarithangal | 40 | 70 | 90 | 110 |
| 34 | Senneerkuppam | 40 | 90 | 110 | 135 |
| 35 | Sithukadu | 40 | 70 | 90 | 110 |
| 36 | Soranjeri | 40 | 70 | 90 | 110 |
| 37 | Thirukovilpattu | 40 | 70 | 90 | 110 |
| 38 | Thirumalarajapuram | 40 | 70 | 90 | 110 |
| 39 | Thirumanam | 40 | 70 | 90 | 110 |
| 40 | Varadharajapuram | 40 | 90 | 110 | 135 |
| 41 | Vellavedu | 40 | 70 | 90 | 110 |
| 42 | Voyalanallur | 40 | 70 | 90 | 110 |
| | UNION: KUNDRATHUR | | | | |
| 1 | Ayyappanthangal | 40 | 90 | 110 | 135 |
| 2 | Chikkarayapuram | 40 | 70 | 90 | 110 |
| 3 | Chinnapanicheri | 40 | 70 | 90 | 110 |
| 4 | Erumaiyur | 40 | 55 | 70 | 90 |
| 5 | Gerugambakkam | 40 | 90 | 110 | 135 |
| 6 | Kavanur | 40 | 70 | 90 | 110 |
| 7 | Kolapakkam | 40 | 70 | 90 | 110 |
| 8 | Kolathuvancheri | 40 | 70 | 90 | 110 |
| 9 | Kollaicheri | 40 | 70 | 90 | 110 |
| 10 | Kovur | 40 | 70 | 90 | 110 |
| 11 | Kozhumanivakkam | 40 | 70 | 90 | 110 |
| 12 | Madanandapuram | 40 | 90 | 110 | 135 |
| 13 | Malayambakkam | 40 | 55 | 70 | 90 |

| Proposed Percapita- Domestic Supply at Design Years | | | | | |
|-----------------------------------------------------|-----------------------------------|--------------|--------------|--------------|--------------|
| Sl. No. | Description | 2015 lpcd | 2020 lpcd | 2035 lpcd | 2050 lpcd |
| 14 | Mowlivakkam | 40 | 90 | 110 | 135 |
| 15 | Naduveerapattu | 40 | 55 | 70 | 90 |
| 16 | Nandambakkam | 40 | 55 | 70 | 90 |
| 17 | Palanthandalam | 40 | 55 | 70 | 90 |
| 18 | Paraniputhur | 40 | 70 | 90 | 110 |
| 19 | Periyapanicheri | 40 | 70 | 90 | 110 |
| 20 | Poonthandalam | 40 | 55 | 70 | 90 |
| 21 | Rendamkattalai | 40 | 70 | 90 | 110 |
| 22 | Sirukalathur | 40 | 55 | 70 | 90 |
| 23 | Srinivasapuram | 40 | 70 | 90 | 110 |
| 24 | Thandalam | 40 | 70 | 90 | 110 |
| 25 | Tharapakkam | 40 | 70 | 90 | 110 |
| 26 | Thelliaragaram | 40 | 70 | 90 | 110 |
| 27 | Thirumudivakkam | 40 | 70 | 90 | 110 |
| 28 | Varadharajapuram | 40 | 70 | 90 | 110 |
| | UNION: SRIPERUMPUDUR | | | | |
| 1 | Chembarambakkam (pt) Tank portion | 40 | 55 | 70 | 90 |
| 2 | Chettipattu | 40 | 55 | 70 | 90 |
| 3 | Daravur | 40 | 55 | 70 | 90 |
| 4 | Kattirambakkam Tank portion | 40 | 55 | 70 | 90 |
| | UNION:ST.THOMAS MOUNT | | | | |
| 1 | Agaramthen | 40 | 70 | 90 | 110 |
| 2 | Arasankalani | 40 | 90 | 110 | 135 |
| 3 | Cowl Bazaar | 40 | 90 | 110 | 135 |
| 4 | Kasbapuram | 40 | 70 | 90 | 110 |
| 5 | Koilambakkam | 40 | 90 | 110 | 135 |
| 6 | Kovilancheri | 40 | 70 | 90 | 110 |
| 7 | Kulathur | 40 | 90 | 110 | 135 |
| 8 | Maduraipakkam | 40 | 70 | 90 | 110 |
| 9 | Medavakkam | 40 | 90 | 110 | 135 |
| 10 | Meppedu | 40 | 70 | 90 | 110 |
| 11 | Moovarasampettai | 40 | 90 | 110 | 135 |
| 12 | Mudichur | 40 | 70 | 90 | 110 |
| 13 | Mulacheri | 40 | 70 | 90 | 110 |
| 14 | Nanmangalam | 40 | 90 | 110 | 135 |
| 15 | Ottiyambakkam | 40 | 90 | 110 | 135 |
| 16 | Perumbakkam | 40 | 90 | 110 | 135 |
| 17 | Perundavakkam | 40 | 90 | 110 | 135 |
| 18 | Polichalur | 40 | 90 | 110 | 135 |
| 19 | Sithalapakkam | 40 | 90 | 110 | 135 |
| 20 | Thiruvancheri | 40 | 70 | 90 | 110 |
| 21 | Tirusulam | 40 | 90 | 110 | 135 |
| 22 | Vengaivasal | 40 | 90 | 110 | 135 |
| 23 | Vengapakkam | 40 | 70 | 90 | 110 |
| | UNION:KATTANKULATHUR | | | | |
| 1 | Kilambakkam | 40 | 70 | 90 | 110 |
| 2 | Kolapakkam | 40 | 70 | 90 | 110 |
| 3 | Mannivakkam | 40 | 70 | 90 | 110 |
| 4 | Nedungundram | 40 | 70 | 90 | 110 |
| 5 | Puthur | 40 | 70 | 90 | 110 |
| 6 | Vandalur | 40 | 70 | 90 | 110 |

Annexure 6.2 -Total Water demand Based on the Projected populations

| Description | YEAR | | | |
|---------------------------------------------|-------------|-------------|-------------|--------------|
| | 2015 | 2020 | 2035 | 2050 |
| CHENNAI OLD CORPORATION | | | | |
| Population (in thousands) | 4728 | 4830 | 5138 | 5437 |
| Domestic (MLD) | 520 | 724.53 | 770.66 | 815.54 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 52 | 72 | 77 | 82 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 26 | 36 | 39 | 41 |
| Sub Total | 598 | 832.53 | 886.66 | 938.54 |
| Treatment Loss @ 5% | 30 | 42 | 44 | 47 |
| NRW @ 10% | 60 | 83 | 89 | 94 |
| Total | 688 | 958 | 1020 | 1080 |
| EXPANDED CITY AREA | | | | |
| Population (in thousands) | 2326 | 2727 | 4042 | 5536 |
| Domestic (MLD) | 177.1 | 284.4 | 515.45 | 830.37 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 18 | 28 | 52 | 83 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 9 | 14 | 26 | 42 |
| Sub Total | 204.1 | 326.4 | 593.45 | 955.37 |
| Treatment Loss @ 5% | 10 | 16 | 30 | 48 |
| NRW @ 10% | 20 | 33 | 59 | 96 |
| Total | 234 | 375 | 682 | 1099 |
| CHENNAI CITY INCLUDING EXPANDED AREA | | | | |
| Population (in thousands) | 7054 | 7557 | 9180 | 10973 |
| Domestic (MLD) | 697 | 1009 | 1286 | 1646 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 70 | 100 | 129 | 165 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 35 | 50 | 65 | 83 |
| Sub Total | 802.2 | 1158.9 | 1480.1 | 1893.9 |
| Treatment Loss @ 5% | 40 | 58 | 74 | 95 |
| NRW @ 10% | 80 | 116 | 148 | 189 |
| Total | 922 | 1333 | 1702 | 2178 |
| ADDED AREA-REST OF CMA | | | | |
| MUNICIAPALTIES | | | | |
| Population (in thousands) | 1110 | 1299 | 2096 | 3414 |
| Domestic (MLD) | 77.71 | 116.9 | 230.51 | 460.93 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 8 | 12 | 23 | 46 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 4 | 6 | 12 | 23 |
| Sub Total | 89.71 | 134.9 | 265.51 | 529.93 |
| Treatment Loss @ 5% | 4 | 7 | 13 | 26 |
| NRW @ 10% | 9 | 13 | 27 | 53 |
| Total | 103 | 155 | 306 | 609 |
| TOWN PANCHAYATS | | | | |
| Population (in thousands) | 516 | 664 | 1150 | 1727 |
| Domestic (MLD) | 33.49 | 55.229 | 118.71 | 218.99 |

| Description | YEAR | | | |
|------------------------------------------|-------------|--------------|--------------|--------------|
| | 2015 | 2020 | 2035 | 2050 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 3 | 6 | 12 | 22 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 2 | 3 | 6 | 11 |
| Sub Total | 38.49 | 64.229 | 136.71 | 251.99 |
| Treatment Loss @ 5% | 2 | 3 | 7 | 13 |
| NRW @ 10% | 4 | 6 | 14 | 25 |
| Total | 44 | 73 | 158 | 290 |
| VILLAGE PANCHAYAT | | | | |
| Population (in thousands) | 1257 | 1683 | 3055 | 4570 |
| Domestic (MLD) | 50.27 | 119.89 | 271.31 | 505.87 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 5 | 12 | 27 | 51 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 3 | 6 | 14 | 25 |
| Sub Total | 58.27 | 137.89 | 312.31 | 581.87 |
| Treatment Loss @ 5% | 3 | 7 | 16 | 29 |
| NRW @ 10% | 6 | 14 | 31 | 58 |
| Total | 67 | 159 | 359 | 669 |
| TOTAL FOR CMA OUTSIDE CORPORATION | | | | |
| Population (in thousands) | 2883 | 3646 | 6300 | 9712 |
| Domestic (MLD) | 161 | 292 | 621 | 1186 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 16 | 29 | 62 | 119 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 8 | 15 | 31 | 59 |
| Sub Total | 185.5 | 336.02 | 713.53 | 1363.8 |
| Treatment Loss @ 5% | 9 | 17 | 36 | 68 |
| NRW @ 10% | 19 | 34 | 71 | 136 |
| Total | 213 | 387 | 821 | 1568 |
| ALL CMA | | | | |
| Population (in thousands) | 9937 | 11204 | 15480 | 20684 |
| Domestic (MLD) | 859 | 1301 | 1907 | 2832 |
| Industrial Dem. @ 10% of Dom. Dem. (MLD) | 86 | 130 | 191 | 283 |
| Commercial Dem. @ 5% of Dom. Dem.(MLD) | 43 | 65 | 95 | 142 |
| Sub Total | 987.6 | 1496 | 2193 | 3257 |
| Treatment Loss @ 5% | 49 | 75 | 110 | 163 |
| NRW @ 10% | 99 | 150 | 219 | 326 |
| Total | 1136 | 1721 | 2522 | 3746 |
| | | | | |

Annexure 6.3 - SECTORWISE WATER UTILISATION-PER CAPITA SUPPLY
Per Capita Supply of 150 lpcd

| Sl. No. | Description | Percapita Domestic supply | Allocation in LPCD | | | |
|--------------|------------------|---------------------------|--------------------|----------------|----------------|-----------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 12 | 12 | 0 | 0 | 12 |
| 4. | Washing Utensils | 20 | 20 | 0 | 0 | 20 |
| 5. | Bathing | 30 | 30 | 0 | 0 | 30 |
| 6. | Washing Clothes | 50 | 40 | 5 | 5 | 50 |
| 7. | Toilet flushing | 30 | 15 | 8 | 7 | 30 |
| Total | | 150 lpcd | 125 lpcd | 13 lpcd | 12 lpcd | 150 lpcd |
| | | in % | 83% | 9% | 8% | 100% |

Per Capita Supply of 135 lpcd

| Sl. No. | Description | Percapita Domestic supply | Allocation in LPCD | | | |
|--------------|------------------|---------------------------|--------------------|----------------|----------------|-----------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 12 | 12 | 0 | 0 | 12 |
| 4. | Washing Utensils | 20 | 20 | 0 | 0 | 20 |
| 5. | Bathing | 30 | 30 | 0 | 0 | 30 |
| 6. | Washing Clothes | 40 | 30 | 10 | 0 | 40 |
| 7. | Toilet flushing | 25 | 10 | 5 | 10 | 25 |
| Total | | 135 lpcd | 110 lpcd | 15 lpcd | 10 lpcd | 135 lpcd |
| | | in % | 81% | 11% | 7% | 100% |

Per Capita Supply of 110 lpcd

| Sl. No. | Description | Percapita Domestic supply | Allocation in LPCD | | | |
|--------------|------------------|---------------------------|--------------------|----------------|----------------|-----------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 10 | 10 | 0 | 0 | 10 |
| 4. | Washing Utensils | 20 | 20 | 0 | 0 | 20 |
| 5. | Bathing | 25 | 25 | 0 | 0 | 25 |
| 6. | Washing Clothes | 30 | 22 | 8 | 0 | 30 |
| 7. | Toilet flushing | 17 | 0 | 7 | 10 | 17 |
| Total | | 110 lpcd | 85 lpcd | 15 lpcd | 10 lpcd | 110 lpcd |
| | | in % | 77% | 14% | 9% | 100% |

Per Capita Supply of 90 lpcd

| Sl. No. | Description | Percapita Domestic supply | Allocation in LPCD | | | |
|--------------|------------------|---------------------------|--------------------|--------------|---------------|-------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 27 | 10 | 17 | 0 | 27 |
| 4. | Washing Utensils | | | | | |
| 5. | Bathing | 25 | 25 | 0 | 0 | 25 |
| 6. | Washing Clothes | 30 | 20 | 10 | 0 | 30 |
| 7. | Toilet flushing | | | | | |
| Total | | 90 | 63 | 27 | 0 | 90 |
| | | in % | 70% | 30% | 0% | 100% |

Per Capita Supply of 70 lpcd

| Sl. No. | Description | Per capita Domestic supply | Allocation in LPCD | | | |
|---------|------------------|----------------------------|--------------------|--------------|---------------|-------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 20 | 0 | 20 | 0 | 20 |
| 4. | Washing Utensils | | | | | |
| 5. | Bathing | 22 | 22 | 0 | 0 | 22 |
| 6. | Washing Clothes | 20 | 10 | 10 | 0 | 20 |
| 7. | Toilet flushing | | | | | |
| | Total | 70 | 40 | 30 | 0 | 70 |
| | | in % | 57% | 43% | 0% | 100% |

Per Capita Supply of 55 lpcd

| Sl. No. | Description | Per capita Domestic supply | Allocation in LPCD | | | |
|---------|------------------|----------------------------|--------------------|--------------|---------------|-------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 15 | 0 | 15 | 0 | 15 |
| 4. | Washing Utensils | | | | | |
| 5. | Bathing | 15 | 10 | 5 | 0 | 15 |
| 6. | Washing Clothes | 17 | 12 | 5 | 0 | 17 |
| 7. | Toilet flushing | | | | | |
| | Total | 55 | 30 | 25 | 0 | 55 |
| | | in % | 55% | 45% | 0% | 100% |

Per Capita Supply of 40 lpcd

| Sl. No. | Description | Per capita Domestic supply | Allocation in LPCD | | | |
|---------|------------------|----------------------------|--------------------|--------------|---------------|-------------|
| | | | Fresh water | Local source | Recycle water | Total |
| 1. | Drinking | 3 | 3 | 0 | 0 | 3 |
| 2. | Cooking | 5 | 5 | 0 | 0 | 5 |
| 3. | House Cleaning | 10 | 10 | 0 | 0 | 10 |
| 4. | Washing Utensils | | | | | |
| 5. | Bathing | 10 | | 10 | 0 | 10 |
| 6. | Washing Clothes | 12 | | 12 | 0 | 12 |
| 7. | Toilet flushing | | | | | |
| | Total | 40 | 18 | 22 | 0 | 40 |
| | | in % | 45% | 55% | 0% | 100% |

| Annexure-6.4- ALLOCATION OF FRESH WATER, LOCAL SOURCE AND RECYCLED WATER-MLD | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------|-------------|--------------|----------------|------------|-------------|--------------|----------------|------------|-------------|--------------|----------------|-------------|-------------|--------------|----------------|-------------|
| Description | 2015 | | | | 2020 | | | | 2035 | | | | 2050 | | | |
| | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total |
| CHENNAI CORE CITY | | | | | | | | | | | | | | | | |
| Domestic Demand | 520 | | | | 725 | | | | 771 | | | | 816 | | | |
| % of allocation | | | | | | | | | | | | | | | | |
| Domestic Supply | 416 | 104 | 0 | 520 | 604 | 63 | 58 | 725 | 642 | 67 | 62 | 771 | 680 | 71 | 65 | 816 |
| Ind. Demand (10% of Dom.Dem.) | 52 | | | | 72 | | | | 77 | | | | 82 | | | |
| % of allocation | 65.5% | | 34.5% | | 50% | 15% | 35% | | 45% | 15% | 40% | | 40% | 15% | 45% | |
| Industrial Supply | 34 | | 18 | 52 | 36 | 11 | 25 | 72 | 35 | 12 | 31 | 77 | 33 | 12 | 37 | 82 |
| Com. Demand (5% of Dom.Dem.) | 26 | | | | 36 | | | | 39 | | | | 41 | | | |
| % of allocation | 100% | | 0% | | 50% | 25% | 25% | | 50% | 25% | 25% | | 50% | 25% | 25% | |
| Commercial Supply | 26 | | 0 | 26 | 19.0 | 9.0 | 9.0 | 37 | 19 | 9.6 | 9.6 | 39 | 20 | 10.2 | 10.2 | 41 |
| Total | 476 | 104 | 18 | 598 | 659 | 83 | 92 | 834 | 696 | 88 | 102 | 886 | 733 | 93 | 112 | 938 |
| Add for 5% for Treatment Loss | 24 | | 1 | 25 | 33 | | 5 | 38 | 35 | | 5 | 40 | 37 | | 6 | 42 |
| Add for 10% for Transmission Loss | 48 | | 2 | 49 | 66 | | 9 | 75 | 70 | | 10 | 80 | 73 | | 11 | 84 |
| Total Pro. Supply incl. Losses | 548 | 104 | 21 | 672 | 758 | 83 | 106 | 947 | 801 | 88 | 117 | 1006 | 843 | 93 | 129 | 1065 |
| EXPANDED CITY AREA | | | | | | | | | | | | | | | | |
| Domestic Demand | 177 | | | | 284 | | | | 515 | | | | 830 | | | |
| % of allocation | | | | | | | | | | | | | | | | |
| Domestic Supply | 118 | 60 | 0 | 177 | 215 | 50 | 19 | 284 | 414 | 61 | 40 | 515 | 692 | 72 | 66 | 830 |
| Ind. Demand (10% of Dom.Dem.) | 18 | | | | 28 | | | | 52 | | | | 83 | | | |
| % of allocation | 65.5% | | 34.5% | | 50% | 15% | 35% | | 45% | 15% | 40% | | 40% | 15% | 45% | |
| Industrial Supply | 12 | | 6 | 18 | 14 | 4 | 10 | 28 | 23 | 8 | 21 | 52 | 33 | 12 | 37 | 83 |
| Com. Demand (5% of Dom.Dem.) | 9 | | | | 14 | | | | 26 | | | | 42 | | | |
| % of allocation | 100% | | 0% | | 50% | 25% | 25% | | 50% | 25% | 25% | | 50% | 25% | 25% | |

| Annexure-6.4- ALLOCATION OF FRESH WATER, LOCAL SOURCE AND RECYCLED WATER-MLD | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------|-------------|--------------|----------------|-------|-------------|--------------|----------------|-------|-------------|--------------|----------------|-------|-------------|--------------|----------------|-------|
| Description | 2015 | | | | 2020 | | | | 2035 | | | | 2050 | | | |
| | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total |
| Commercial Supply | 9 | | 0 | 9 | 8.0 | 4.0 | 4.0 | 16 | 13 | 6.4 | 6.4 | 26 | 21 | 10.4 | 10.4 | 42 |
| Total | 138 | 60 | 6 | 204 | 237 | 59 | 33 | 329 | 450 | 75 | 67 | 593 | 746 | 95 | 114 | 955 |
| Add for 5% for Treatment Loss | 7 | | 0 | 7 | 12 | | 2 | 14 | 23 | | 3 | 26 | 37 | | 6 | 43 |
| Add for 10% for Transmission Loss | 14 | | 1 | 14 | 24 | | 3 | 27 | 45 | | 7 | 52 | 75 | | 11 | 86 |
| Total Pro. Supply incl. Losses | 159 | 60 | 7 | 225 | 272 | 59 | 38 | 369 | 518 | 75 | 78 | 670 | 858 | 95 | 131 | 1084 |
| CHENNAI CITY INCLUDING EXPANDED AREA | | | | | | | | | | | | | | | | |
| Domestic Demand | 697 | | | | 1009 | | | | 1286 | | | | 1646 | | | |
| % of allocation | | | | | | | | | | | | | | | | |
| Domestic Supply | 534 | 164 | 0 | 697 | 818 | 113 | 77 | 1009 | 1057 | 127 | 102 | 1286 | 1372 | 143 | 132 | 1646 |
| Ind. Demand (10% of Dom.Dem.) | 70 | | | | 101 | | | | 129 | | | | 165 | | | |
| % of allocation | 65.5% | | 34.5% | | 50% | 15% | 35% | | 45% | 15% | 40% | | 40% | 15% | 45% | |
| Industrial Supply | 46 | | 24 | 70 | 50 | 15 | 35 | 101 | 58 | 19 | 51 | 129 | 66 | 25 | 74 | 165 |
| Com. Demand (5% of Dom.Dem.) | 35 | | | | 50 | | | | 64 | | | | 82 | | | |
| % of allocation | 100% | | 0% | | 50% | 25% | 25% | | 50% | 25% | 25% | | 50% | 25% | 25% | |
| Commercial Supply | 35 | | 0 | 35 | 26.0 | 13.0 | 13.0 | 52 | 32 | 16.1 | 16.1 | 64 | 41 | 20.6 | 20.6 | 82 |
| Total | 614 | 164 | 24 | 802 | 895 | 141 | 126 | 1162 | 1147 | 163 | 170 | 1479 | 1479 | 188 | 226 | 1893 |
| Add for 5% for Treatment Loss | 31 | | 1 | 32 | 45 | | 6 | 51 | 57 | | 8 | 66 | 74 | | 11 | 85 |
| Add for 10% for Transmission Loss | 61 | | 2 | 64 | 89 | | 13 | 102 | 115 | | 17 | 132 | 148 | | 23 | 170 |
| Total Pro. Supply incl. Losses | 706 | 164 | 28 | 897 | 1029 | 141 | 145 | 1315 | 1319 | 163 | 195 | 1676 | 1700 | 188 | 260 | 2149 |
| Rest of CMA | | | | | | | | | | | | | | | | |

| Annexure-6.4- ALLOCATION OF FRESH WATER, LOCAL SOURCE AND RECYCLED WATER-MLD | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------|-------------|--------------|----------------|------------|-------------|--------------|----------------|-------------|-------------|--------------|----------------|-------------|-------------|--------------|----------------|-------------|
| Description | 2015 | | | | 2020 | | | | 2035 | | | | 2050 | | | |
| | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total |
| Domestic Demand | 161 | | | | 292 | | | | 621 | | | | 1186 | | | |
| % of allocation | | | | | | | | 0 | | | | 0 | | | | |
| Domestic Supply | 86 | 76 | 0 | 162 | 192 | 100 | 0 | 292 | 455 | 128 | 38 | 620 | 940 | 165 | 81 | 1186 |
| Ind. Demand (10% of Dom.Dem.) | 16 | | | | 29 | | | | 62 | | | | 119 | | | |
| % of allocation of total Domestic Demand | 100% | | 0% | | 50% | 25% | 25% | | 50% | 25% | 25% | 1 | 50% | 25% | 25% | |
| Industrial Supply | 16 | | 0 | 16 | 15.0 | 7 | 7 | 29 | 31 | 16 | 16 | 62 | 59 | 30 | 30 | 119 |
| Commercial Demand | 8 | | | | 15 | | | | 31 | | | | 59 | | | |
| % of allocation of total Domestic Demand | 100% | | 0% | | 50% | 25% | 25% | | 50% | 25% | 25% | | 50% | 25% | 25% | |
| Commercial Supply | 8 | | 0 | 8 | 7 | 4 | 4 | 15 | 16 | 8 | 8 | 31 | 30 | 15 | 15 | 59 |
| Total | 110 | 76 | 0 | 186 | 215 | 110 | 11 | 336 | 501 | 151 | 61 | 714 | 1029 | 210 | 125 | 1364 |
| Add for 5% for Treatment Loss | 6 | | 0 | 6 | 11 | | 1 | 11 | 25 | | 3 | 28 | 51 | | 6 | 58 |
| Add for 10% for Transmission Loss | 11 | | 0 | 11 | 21 | | 1 | 23 | 50 | | 6 | 56 | 103 | | 13 | 115 |
| Total Pro. Supply incl. Losses | 127 | 76 | 0 | 203 | 247 | 110 | 13 | 370 | 576 | 151 | 70 | 798 | 1183 | 210 | 144 | 1537 |
| All CMA | | | | | | | | | | | | | | | | |
| Total Domestic Demand in CMA | 859 | | | | 1301 | | | | 1907 | | | | 2832 | | | |
| Total Domestic Supply in CMA | 620 | 240 | 0 | 859 | 1011 | 213 | 77 | 1301 | 1511 | 255 | 140 | 1907 | 2311 | 308 | 213 | 2832 |
| Total Industrial Demand | 86 | | | | 130 | | | | 191 | | | | 283 | | | |
| Total Industrial Supply | 62 | 0 | 24 | 86 | 65 | 22 | 43 | 130 | 89 | 35 | 67 | 191 | 125 | 54 | 104 | 283 |
| Total Commercial Demand | 43 | | | | 65 | | | | 95 | | | | 142 | | | |
| Total Commercial Supply | 43 | 0 | 0 | 43 | 33 | 17 | 17 | 67 | 48 | 24 | 24 | 95 | 71 | 35 | 35 | 142 |
| Total | 724 | 240 | 24 | 988 | 1110 | 251 | 137 | 1498 | 1648 | 314 | 231 | 2192 | 2507 | 397 | 352 | 3256 |
| Add for 5% for Treatment Loss | 36 | | 1 | 37 | 55 | | 7 | 62 | 82 | | 12 | 94 | 125 | | 18 | 143 |

| Annexure-6.4- ALLOCATION OF FRESH WATER, LOCAL SOURCE AND RECYCLED WATER-MLD | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------|-------------|--------------|----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|----------------|-------------|
| Description | 2015 | | | | 2020 | | | | 2035 | | | | 2050 | | | |
| | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total | Fresh water | Local Source | Recycled water | Total |
| Add for 10% for Transmission Loss | 72 | | 2 | 75 | 111 | | 14 | 125 | 165 | | 23 | 188 | 251 | | 35 | 286 |
| Total Pro. Supply incl. Losses | 833* | 240 | 28 | 1100 | 1276* | 251 | 157 | 1685 | 1895* | 314 | 265 | 2474 | 2883* | 397 | 405 | 3685 |
| Less for Treatment losses for DSPs as there will be no treatment losses | -8 | | | | -17 | | | | -25 | | | | -39 | | | |
| Net Fresh water Demand | 825 | | | | 1259 | | | | 1870 | | | | 2844 | | | |