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VOLUME  
9

Sept  
2017

# NEWS LETTER

## Underground Sections & Tunneling Work Progress as on 31.09.2017

| Package      | TBM   | From               | To            | Tunnelling length in mtr | Completed in mtr | Percentage completed |
|--------------|-------|--------------------|---------------|--------------------------|------------------|----------------------|
| UAA 01       | TBM 1 | Washermenpet Metro | Egmore Metro  | 4445                     | 4445             | 100                  |
|              | TBM 2 | Washermenpet Metro | Egmore Metro  | 4445                     | 4445             | 100                  |
|              | TBM 3 | May Day Park       | Central Metro | 2080                     | 2080             | 100                  |
| UAA 02       | TBM 1 | May Day Park       | AG-DMS        | 3616                     | 3555             | 98.3                 |
|              | TBM 2 | May Day Park       | AG-DMS        | 3616                     | 2997             | 82.88                |
| UAA 03       |       | Saidapet Metro     | AG-DMS        | 5736                     | 5736             | 100                  |
| UAA 04       |       | Egmore Metro       | Shenoy Nagar  | 6776                     | 6776             | 100                  |
| UAA 05       |       | Shenoy Nagar       | Thirumangalam | 5594                     | 5594             | 100                  |
| UAA 08       | TBM 1 | Washermenpet       | Korukkupet    | 2000                     | 1272             | 63.6                 |
|              | TBM 2 | Washermanpet       | Korrukupet    | 2000                     | 1665             | 83.25                |
| <b>Total</b> |       |                    |               | <b>40308</b>             | <b>38565</b>     | <b>95.68</b>         |



Tiling Work in progress at  
Egmore Metro Station



Work in progress at  
Saidapet Metro Station

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CHENNAI METRO RAIL LIMITED



## Major milestone in Phase 1 Extension underground tunneling works achieved with break-through of first TBM

On 24th September 2017, the first of the two Tunnel Boring Machines, operated by M/s. Afcons Infrastructure Limited, makes breakthrough at the cut-and-cover retrieval shaft at Korukkupet had completed its drive from Washermentpet to Korukkupet as part of Phase 1 Extension's underground section covering a total of 1.8 km-long drive.

During the drive since its launch at Washermentpet, the Herrenknecht TBM has travelled beneath the Railway tracks at Washermentpet with active rail traffic till date in addition to crossing under 480 buildings of mixed developments and 310 numbers of wells/borewells of which 10 were open wells. The TBM was driven through the Theagaraya Underground station box of Phase 1 Extension of the Chennai Metro Rail Project. Intensive instrumentation and monitoring was undertaken by the contractor during the tunnel progress to maintain the structural integrity of existing buildings.

It is a major milestone in the tunneling works with the TBM progressing at an average rate of around 11m per day including interventions from the day it was launched at Washermentpet in April this year. This is significant since it is one of the highest average rates achieved by TBMs operated in Chennai till date. The works in this contract commenced in July 2016 with the presence of the Hon'ble Chief Minister of Tamil Nadu at ground breaking.

The second TBM is also following closely and shall be ready for break-through after completing the balance length of around 465m of tunnel drive. 2636 numbers of precast tunnel lining segments required for the TBM drive had been casted at the state-of-the-art casting yard facility installed at Parivakkam for this purpose.

From here onward, the works to get the TBM out, cover up the shaft, complete cross passage works, clean up the tunnel and handover to the interfacing contractor of UAA-09 contract i.e., M/s.ITNL-KMBJV who will complete the works of stations, complete architectural detailing, and allow for laying track, installation of all critical electrical-signalling-telecommunication systems for proceeding to conduct trials, obtain necessary approvals and commence commercial operations. The works of elevated corridor of Phase 1 Extension is also on-going.

The Phase-1 Extension will seamlessly integrate with the Phase 1 Corridor 1 thereby introducing direct connectivity from Wimco Nagar to Chennai Air Port once all the works in elevated and the underground portions of the Phase 1 Extension corridor are completed.



## Self Learning - Achievement



As a part of self-learning and upgrading the professional skills towards gaining more knowledge and contribution towards higher achievement of organisation goals, WgCdr D GURUNATH REDDY, Additional General Manager (Contract Management) has with his own initiative and interest applied for the massive online study programme of public procurement and contract management conduct by the world bank. The two certificates received by him is a mark of achievement, distinction and outstanding dedication for demonstrating higher learning abilities.

CMRL wishes and congratulates WgCdr D GURUNATH REDDY Additional General Manager - Contract Management for his accomplishment and I am sure he will be a source of inspiration & motivation for all others of CMRL to follow.



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**Published by :**  
Chennai Metro Rail Limited

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