



# CHENNAI METRO RAIL NEWS LETTER

VOLUME-IX ISSUE-11



## Track Progress as on 30.11.2015 (ATA-01)

**CORRIDOR-I** : In Elevated section between Saidapet ramp and Airport, 15364m plinth concrete completed out of 18723m and 19 turnouts were laid out of 23 turnouts and balance work in progress. Casting and finishing of scissor cross over at Airport were completed.

**CORRIDOR-II** : In Elevated section between Thirumangalam and St. Thomas Mount, Track work completed for entire elevated stretch of 24788m track length with 27 turnouts. In the underground section between Thirumangalam ramp to Chennai Central, Track work in progress between Thirumangalam ramp to Egmore and out of 19888m, 7408m plinth concrete completed and 5 turnouts were completed out of 12 turnouts. Casting of scissor cross over completed at Shenoy Nagar and balance track work in progress.

**Depot** : Track work completed for entire depot length of 14606m and 41 numbers of turnouts were laid.



Track work completed at Thirumangalam ramp



Diamond cross over track work completed at Airport station

### Thiru. Madhusudhan Prasad, I.A.S.,

Secretary  
Ministry of Urban Development  
Government of India &  
Chairman, CMRL

### Thiru. Pankaj Kumar Bansal, I.A.S.,

Managing Director  
Chennai Metro Rail Limited

### CHENNAI METRO RAIL LIMITED

"Admin Building" Chennai Metro Rail Depot  
PH Road, Koyambedu, Chennai - 600 107.

☎ 044-2379 2000  
✉ chennaiemtorail@gmail.com  
🌐 www.chennaiemtorail.gov.in

## International Safety Award & International Environmental Best Practice Award 2015

GC/Chennai Metro Rail Engineer **Thiru C. Kannan** is the first candidate from India who has received this prestigious International Safety Award from World Safety Organization (WSO) USA, presented the International award for Achievement in Scientific Research and Development 2015 to Thiru C. Kannan, - Deputy Chief Engineer (Health & Safety) General Consultant (EMBYE) of Chennai Metro Rail Project at a function recently held in Manila Philippines. The award was presented in recognition of the exemplary performance and valuable contribution by safety professionals in cultivation of "Standards that has contributed significantly to the safety interface between the system and the operator of the product and the consumer".

Thiru C. Kannan has also received the following awards from International & National safety & environmental organizations:

- National Award-American Society of Safety Engineers (ASSE)- India Chapter-Safety Professional (SPY) of the Year 2015.
- National Award-Safe Association-India-Best Safety Professional of the Year 2015.
- International Award-National Association of safety Professional:NASP- Outstanding Achievement Award
- International Environmental Best Practice Award 2015 from The Green Organization, UK.

The Managing Director of Chennai Metro Rail Limited, Thiru Pankaj Kumar Bansal, I.A.S., appreciated Thiru C. Kannan and his team efforts towards implementation of safety standards in Chennai Metro Rail Project.



## Tunnel Progress as on 30.11.15

| Package       | TBM   | From                  | To            | Tunnelling length in mtr | Completed in mtr | Percentage completed |
|---------------|-------|-----------------------|---------------|--------------------------|------------------|----------------------|
| <b>UAA 01</b> | TBM 1 | Washerment Metro      | Egmore Metro  | 4445                     | 3164             | 71.2                 |
|               | TBM 2 | Washerment Metro      | Egmore Metro  | 4445                     | 3085             | 69.4                 |
|               | TBM 3 | May Day Park          | Central Metro | 1040                     | 1040             | 100                  |
|               | TBM 3 | May Day Park          | Central Metro | 1040                     | 868              | 83.4                 |
| <b>UAA 02</b> | TBM 1 | May Day Park          | AG-DMS        | 3616                     | 1835             | 50.7                 |
|               | TBM 2 | May Day Park          | AG-DMS        | 3616                     | 1700             | 47                   |
| <b>UAA 03</b> | TBM 1 | Saidapet Metro        | AG-DMS        | 2868                     | 2868             | 100                  |
|               | TBM 2 | Saidapet Metro        | AG-DMS        | 2868                     | 2868             | 100                  |
| <b>UAA 04</b> | TBM 1 | Nehru Park            | Egmore Metro  | 948                      | 948              | 100                  |
|               | TBM 2 | Nehru Park            | Egmore Metro  | 948                      | 948              | 100                  |
|               | TBM 3 | Pachaiyappa's College | Nehru Park    | 1474                     | 1474             | 100                  |
|               | TBM 1 | Pachaiyappa's College | Shenoy Nagar  | 966                      | 966              | 100                  |
|               | TBM 2 | Pachaiyappa's College | Kilpauk       | 898                      | 898              | 100                  |
|               | TBM 2 | Pachaiyappa's College | Shenoy Nagar  | 966                      | 966              | 100                  |
|               | TBM 1 | Kilpauk               | Nehru Park    | 576                      | 576              | 100                  |
| <b>UAA 05</b> | TBM 1 | Shenoy Nagar          | Thirumangalam | 2797                     | 2797             | 100                  |
|               | TBM 2 | Shenoy Nagar          | Thirumangalam | 2797                     | 2797             | 100                  |
| <b>Total</b>  |       |                       |               | <b>36308</b>             | <b>29798</b>     | <b>82.07</b>         |



*Diamond crossing grouting work in progress at Shenoy Nagar Metro Station*



*Saidapet Tunnel*



*Work in progress at Anna Nagar Tower Station*

## Progress of Depot work as on 30.11.2015

| S.NO. | DESCRIPTION                                   | STATUS OF WORK                                       |
|-------|---|--|
| 1     | Stabling Shed, Rolling Stock Shed, Road Works | Completed  |
| 2     | Effluent Treatment Plant                      | Civil structural works are in progress               |
| 3     | Under Ground Services                         | Cover slab works in progress, trenches are completed |
| 4     | Compound Wall                                 | Completed  |



Depot View

### Welcome to the Metro Family

#### CMRL Project

Thiru Stanislaus M, PRO  
Emp No. 1254

Thiru Udayakumar T, Consultant (LA)  
Emp No. 1255



#### O&M Staff

Thiru Sakthivel, PJE (Electrical), Emp No. 5259  
Tmt Thulasi, DJE (Electrical), Emp No. 5260  
Tmt Abinaya, JE (Electrical), Emp No. 5261  
Thiru Livingston, JJE (Electrical), Emp No. 5262  
Tmt Uma Devi, SJE (Electrical), Emp No. 5263  
Tmt Shanmugapriya, KJE (Electrical), Emp No. 5264  
Thiru Rajendran, KJE (Electrical), Emp No. 5265  
Tmt Latha Priya, SJE (Electrical), Emp No. 5266

### Interconnection of 1200mm diahume pipe

Existing 1200 mm diahume pipe below 1.80 m depth from road level was rectified by CMRL which caused a major water leak near Jawahar Nehru Salai.



# Progress of civil works in Elevated Sections as on 31.10.15

## Progress flyover work at Vadapalani

| Item                     | Total Nos | Completed Nos |
|--------------------------|-----------|---------------|
| Pile, Pile caps<br>Piers | Completed | Completed     |
| Pier Caps                | 33        | 26            |
| I Girder Casting         | 78        | 77            |
| I Girder Erection        | 78        | 33            |
| Deck Slab                | 29        | 3             |



Work in progress at Vadapalani Flyover



Vadapalani Flyover



Work in progress at Meenambakkam towards Airport Viaduct

## Progress from Nanganallur Road to Airport

| Item                                 | Total Nos  | Completed No's |
|--------------------------------------|------------|----------------|
| Open<br>Foundation                   | Completed  | Completed      |
| Pier, Cut & Cover<br>Ramp Excavation | Completed  | Completed      |
| Pcc, Portal Beam                     | Completed  | Completed      |
| Rcc Works                            | 21,000 cum | 20,940 cum     |
| Span Erection                        | 107        | 97             |



Work in progress from Nanganallur Road to Airport



Little Mount Station



Work in progress at Little Mount Station

# Progress of works in Under Ground Sections

| Name of Work  | Status of the Work  |
|---|---|
| <p><b>UAA 01</b></p> <p>Washermenpet Metro, Mannadi, High Court, Central Metro, Egmore Metro and May Day Park</p> | <ul style="list-style-type: none"> <li>• <b>Washermenpet Metro Station</b> : 251m out of 314m roof slab completed. 251m out of 314m concourse slab completed. Station box - Base to concourse staircase 3nos completed, 135 out of 164 OTE duct erection completed. Architectural finishing works in progress at Station &amp; Entry/Exit.</li> <li>• <b>Mannadi Station</b> : Architectural works in progress. Ancillary building retaining wall construction in progress. Utility gallery walls completed. ES-02, ES 01 roof slab completed. Staircase completed at ES 01.</li> <li>• <b>High Court Station</b> : 215 out of 231 diaphragm wall panels for Entry / Exit structures Completed. ES 05, ES 01, VS 06 &amp; ES 04 base slab construction completed. ES 01, ES 04 Roof slab construction in progress. ES 02 - Base slab construction in progress. ES-06 - Base Slab construction in progress.</li> <li>• <b>Central Metro Station</b> : Roof slab construction completed. 232m out of 384m concourse slab completed. 60m out of 384m Upper track slab completed. Rock bolting in progress at High Court side shaft Base slab. Confinement walls construction in progress at SHC Shaft. Station box - Concourse and upper track slab excavation in progress. Rippon building 36m out of 80m base slab completed.</li> <li>• <b>Egmore Metro Station</b> : Utility gallery Construction completed Ancillary Building Ground floor slab construction in progress. Architectural &amp; MEP works in progress.</li> </ul> |
| <p><b>UAA 02</b></p> <p>Government Estate, LIC and Thousand Lights</p>  | <ul style="list-style-type: none"> <li>• <b>Government Estate Station</b> : 48 m of roof slab for Entry "B" &amp; 12m for Entry "A" completed. Block works, platform wall &amp; slab works are under progress.</li> <li>• <b>LIC Station</b> : Block works &amp; Top slab under progress at Concourse level.</li> <li>• <b>Thousand Lights Station</b> : Ancillary building footing works are completed &amp; columns are cast and Utility gallery works is under progress.</li> </ul>  |
| <p><b>UAA 03</b></p> <p>AG-DMS, Teynampet, Nandanam and Saidapet Metro</p>  | <ul style="list-style-type: none"> <li>• <b>AG - DMS Station</b> : All 33 plunge columns, 22 no's of diaphragm wall panels of Entrances, 81.50m of concourse slab and 17.30m of Base completed.</li> <li>• <b>Teynampet Station</b> : 70 no's of diaphragm wall panels of Entry/Exit structure and all 230 m of Roof Slab and 40m of Concourse Slab completed.</li> <li>• <b>Nandanam Station</b> : 232 m of Roof Slab (west side) and 146.60m on east side and 28.60m of Concourse Slab completed.</li> <li>• <b>Saidapet Station</b> : 50 no's of diaphragm wall panels of Entrances completed.</li> <li>• <b>Saidapet Ramp</b> : 149 m Base Slab and 44 m Roof Slab completed.</li> </ul>  |
| <p><b>UAA 04</b></p> <p>Nehru Park, Kilpauk and Pachaiyappa's College.</p>  | <ul style="list-style-type: none"> <li>• <b>Nehru Park Station</b> : D'wall panels in Entry-A and 10 panels in Entry B completed. Block work and plastering in progress at Ancillary building. Utility gallery work in progress. Preparations in progress for resuming diaphragm wall work at Entry-B.</li> <li>• <b>Kilpauk Station</b> : Plastering and painting work in progress at Ancillary building. Part Roof slab casted at Entry-C and waterproofing work in progress. Preparations in progress for diaphragm wall work of vent shaft near Entry-B.</li> <li>• <b>Pachaiyappa's College</b> : 175/182 nos - OTE duct erection work in progress. Block work and plastering in progress at Ancillary building. Base slab rebar work in progress at Entry-C.</li> <li>• <b>Cross Passage Work</b> : Out of total 11no. of cross passages, 6 CP's completed 100% and 3 CP's of 80% done. Grouting work in progress at remaining 2 CP's.</li> </ul>   |
| <p><b>UAA 05</b></p> <p>Shenoy Nagar, Anna Nagar East, Anna Nagar Tower and Thirumangalam</p>                     | <ul style="list-style-type: none"> <li>• <b>Shenoy Nagar Station</b> : Architectural and MEP works in progress, False ceiling and raised floor works in all the system rooms in progress. Above ground structure construction in progress.</li> <li>• <b>Anna Nagar East Station</b> : Four entry exit structure civil works nearing completion. SWC Room works in progress. MEP and Architectural finishes work in progress.</li> <li>• <b>Anna Nagar Tower Station</b> : False ceiling and raised flooring in SWC rooms in progress. Three Entry exit structural works nearing completion. Chiller plant installed, UPS has been commissioned.</li> <li>• <b>Thirumangalam Station</b> : False ceiling and raised flooring in SWC rooms in progress. Four Entry exit structural works nearing completion.</li> <li>• <b>Thirumangalam Ramp</b> : All structural works completed, final restoration work in progress.</li> </ul>   |



Work in progress at High Court Station



Utility gallery rebar work in progress at Nehru Park Station



Ancillary building DG area work in progress at Pachaiyappa's Station



Work in progress at Shenoy Nagar Station



Work in progress at Anna Nagar East Station

## Rolling Stock work progress - Oct 2015

The total order quantity for design, manufacture, supply, testing and commissioning of trains from Alstom Transport is 42. Out of which 9 trains are imported from Alstom, Brazil and remaining 33 trains are being delivered from Alstom Factory set up at Sricity, Andhra Pradesh as a measure of promoting indigenization and technology transfer of Metro train manufacture.

### **Trains delivered to depot:**

A total of 29 trains including the 9 trains of import category, have been delivered to CMRL Koyambedu Depot.

### **Trains under testing at CMRL facility:**

All nine trains in the import category from Alstom, Brazil have been delivered to the Koyembedu depot and have completed static inspection followed by all major type and routine tests in depot and mainline.

The first twenty (train No. 10 to 29) Sricity manufactured trains are delivered to CMRL Depot.

- Trains 10 to 19 have completed Rolling Stock tests in Depot and Mainline.
- Trains 20 to 29 are under various stages of static inspection and tests in Depot and Mainline.

### **Trains commissioned and conditionally accepted by CMRL:**

- Nine trains have been issued with completion certificate and seven among these nine trains have been conditionally accepted by CMRL in June 2015.
- The accepted 7 trains are put under revenue service of Stage-1 section of CMRL from June 2015. Maintenance activities on these 7 trains are carried out by CMRL Rolling Stock Maintenance Team and the warranty obligation is done by the contractor.
- In spite of heavy rains occurred during the month of November 2015 in the city of Chennai, the Rolling Stock maintenance team were successfully able to do the functional checks and send trains for revenue service without causing any disruption to service.

### **Trains under manufacturing at Sricity:**

- Trains 30 & 31 have completed all Routine Static test at Alstom factory Sricity and final inspection. These trains will be progressively delivered to CMRL by first week of December 2015.
- Trains 32 & 33 have completed all Routine Static test at Alstom factory Sricity and final inspection for dispatch is under progress.
- Production activities on Train 34 have completed and internal routine static testing by Alstom at Sricity factory is under progress.
- Trains 35 to 39 are under various stages of production, as per the schedule at Alstom factory, Sricity.



## Progress of Elevated Station Works as on 30.11.2015

| S. No | Stations<br>Description          | Guindy Metro |           | Nanganallur Road |           | ST Mount Metro |           |
|-------|----------------------------------|--------------|-----------|------------------|-----------|----------------|-----------|
|       |                                  | Total Nos    | Completed | Total Nos        | Completed | Total Nos      | Completed |
| 1     | Pile cap                         | Completed    |           | Completed        |           | Completed      |           |
| 2     | Stub column                      | 76           | 70        | 56               | 50        | 205            | 200       |
| 3     | Plinth beam at street level (mt) | 800          | 770       | 420              | 400       | 3900           | 3840      |
| 4     | Footings                         | 63           | 62        | 39               | 37        | Completed      |           |
| 5     | Column above tie beam            | 94           | 88        | 53               | 47        | 228            | 212       |
| 6     | Concourse level slab             | 2237         | 2205      | 1990             | 1770      | 11840          | 11100     |
| 7     | Platform Level                   | Completed    |           | 1000             | 960       | completed      |           |
| 8     | Roof Slab                        | 1000         | 750       | 550              | 500       | NA             | NA        |
| 9     | Column above platform            | NA           | NA        | 32               | 28        | NA             | NA        |

NA- Not Applicable



Work in progress at St Thomas Mount Metro Station



Work in progress at Nanganallur Road Metro Station

## Vigilance Week Celebrations at CMRL

### Cash Award / Appreciation for Story & Caption on Observance of Vigilance Awareness Week Celebrations 2015

Central Vigilance Commission the apex body of vigilance of the country has announced the Observance of Vigilance awareness week celebrations 2015 from 26 Oct 2015 to 31 Oct 2015 and the theme for this year is Preventive Vigilance as a tool of Good Governance. The Vigilance division / CMRL had organised of Story & Caption Competition to all employees of CMRL in this connection.



#### Story Competition

##### 1st Prize

Thiru Bala Kumar  
JE (Elec)

##### 2nd Prize

Thiru Ravi Chandran  
Deputy Est. officer

##### 3rd Prize

Thiru Mohana Sundaram  
Asst. (LA & Social Division)



#### Caption Competition

##### 1st Prize

Thiru Ravi Chandran  
Deputy Est. officer

##### 2nd Prize

Thiru Bala Kumar  
JE Elec

##### 3rd Prize

Thiru Sakkrum Pandiyan  
JE RS



### Rolling Stock Department Awards

The following employees of Rolling Stock division of CMRL were awarded by Chief General Manager / Electrical towards preparation of trains for the inaugural function of Stage-1 revenue operation, maintenance of trains from the date of revenue operation till date and maintenance of depot equipment including major and minor machines for effective maintenance of trains;

- 01 Thiru P. Thiagarajan, Manager/RS, Emp No. 1069
- 02 Thiru H. Abbas, Manager/DM, Emp No. 1143
- 03 Tmt Bhavya. S, AM/RS, Emp No. 1161
- 04 Selvi Amrita Kujur, AM/OP, Emp No. 1219
- 05 Thiru M. Santhanakrishnan, JE, Emp No. 5066
- 06 Thiru M. Gajapathy, JE, Emp No. 5067
- 07 Thiru S.S. Bharani, JE, Emp No. 5050
- 08 Thiru K. Mohamed Siddhik, JE, Emp No. 5025
- 09 Thiru M. Manickam, JE, Emp No. 5164
- 10 Thiru C. Karthik, Technician, Emp No. 5102
- 11 Thiru K. Veeramani, Technician, Emp No. 5248
- 12 Thiru G. Selvakumar, AM/RSM2, Emp No. 1216
- 13 Thiru R. Vinodhkumar, JE, Emp No. 5046
- 14 Thiru T. Bangarusamy, JE, 5065
- 15 Thiru A. Abdul Satar, Techician, Emp No. 5096
- 16 Thiru G. Vishnu Perumal, Technician, Emp No. 5125
- 17 Thiru A. Jesuraja, Technician, Emp No. 5124
- 18 Thiru P. Anand Raj, Technician, Emp No. 5006



#### Editor :

**Thiru. G. Rajarathinam**  
General Manager (HR)

#### Sub-Editor:

**Thiru. Stanislaus M, PRO**  
**Selvi. Shruti Shambavi. R, AM-PR**

#### Published by :

**Chennai Metro Rail Limited.**

Please address all correspondence to:

The Editor,  
Chennai Metro Rail News Letter,  
Chennai Metro Rail Limited,  
"Administration Building",  
CMRL Depot,  
Poonamallee High Road,  
Koyambedu, Chennai - 600 107.  
chennaietrorail@gmail.com