



# CHENNAI METRO RAIL NEWS LETTER

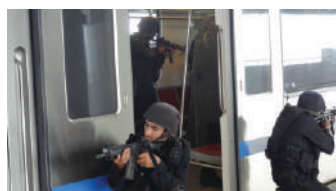
VOLUME-X ISSUE-12



## NSG Metro Intervention Training Held On 18-12-2015

Counter Terrorism Drill was conducted by National Security Guard at Alandur Metro Station on 18-12-2015 under the leadership of Major. N. Praveen Kumar of NSG along with his team of Officers and 100 commandos. Tmt. K. Bhavaneeswari, IPS, Chief Security Officer of Chennai Metro Rail Limited coordinated with National Security Guard and all the other agencies to carry out this Mock Drill.

Thiru N.K. Senthamaraikannan, IPS, Inspector General of Police (Operations), Thiru Santhosh Kumar, IPS., SP, Commando Force, Thiru K. Sajith Kumar, SP, Commando Force, Thiru G. Ramar, Deputy Commissioner of Police, Security, Chennai Police and other Officers of CMRL were present during the operation.



Chairman

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

Secretary

Ministry of Urban Development  
Government of India**Thiru. Pankaj Kumar Bansal, I.A.S.,**

Managing Director

## Foot over bridge (FOB) escalator on park station side at Chennai central opened to public.

Foot over bridge (FOB) escalator on the park station side has been opened on 12/12/15 to cater to the public better.

An escalator was already commissioned and given for commuters on the Moor market complex side in the month of April 2015.



## Trains 30, 31 & 32 reached CMRL depot from Sricity.

Train No. 30, 31 & 32 transported from Alstom Factory, Sricity and Andhra Pradesh has reached CMRL Koyambedu Depot. The trains were dispatched from the factory after the completion of factory static testing and hold point inspections conducted by CMRL.

The cars are unloaded and coupled in the delivery track and are now being moved to stabling lines/Inspection lines.

Visual inspection in under progress and after preliminary checks, the trains will be subjected to non-regression testing at workshop line and then will be moved to test track for further testing and dynamic trails.



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## Tunneling Work Progress as on 31.12.15

Package	TBM	From	To	Tunnelling length in mtr	Completed in mtr	Percentage completed
<b>UAA 01</b>	TBM 1	Washermenpet Metro	Egmore Metro	4445	3179	72
	TBM 2	WashermenpetMetro	Egmore Metro	4445	3085	69.4
	TBM 3	May Day Park	Central Metro	1040	1040	100
	TBM 3	May Day Park	Central Metro	1040	981	94
<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>29926</b>	<b>82.42</b>



Excavation for Entrance-C (Roof to Concourse) work in progress at Kilpauk Metro Station



Rebar work of Roof slab at Entry-A at Nehru Park Station



Shuttering for firemen Staircase wall work in progress at Pachaiyappa's College Metro Station

## Public Notification

### Extended train services on New Year's Eve

CMRL train services were extended on 31.12.15; the last train departed from Koyambedu station at 01:30 am and from Alandur Station at 2:00 am on 01.01.16.



## Track Progress as on 31.12.2015 (ATA-01)

### CORRIDOR-I

In Elevated section between Saidapet ramp and airport, 16564m 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, 7432m 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.



*Thirumangalam Ramp to Thirumangalam Station finished track*



*Finished track between Tirumangalam Station and Anna Nagar Tower Station*



*Rebar work in progress at Airport Box Section*



*Track concreting in progress at Airport Box Section*

## Progress of Depot work as on 31.12.2015

S.NO.	DESCRIPTION	STATUS OF WORK
1	Stabling Shed, Rolling Stock Shed, Road Works	Completed
2	Effluent Treatment Plant	Commissioning in progress
3	Under Ground Services, Compound Wall	Completed



*"All Metro stations were heavily crowded on 2nd and 3rd December 2015. Round the clock services were provided on the above days to cater to the public better during the recent flood in Chennai. Services were also extended all other days due to heavy passenger inflow in the Metro Stations."*

# Progress of Civil Works in Elevated Sections as on 31.12.15

## Progress flyover work at Vadapalani

Item	Total Nos	Completed Nos
Pile, Pile caps Piers	Completed	Completed
Pier Caps	33	31
I Girder Casting	Completed	Completed
I Girder Erection	78	33
Deck Slab	29	6



Deck slab preparation in progress at Vadapalani Flyover



Erection of I-Girder in progress at Vadapalani Flyover

## Progress from Nanganallur Road to Airport

Item	Total Nos	Completed No's
Open Foundation	Completed	Completed
Pier, Cut & Cover Ramp Excavation	Completed	Completed
Pcc, Portal Beam	Completed	Completed
Rcc Works	21,000 cum	20,970 cum
Span Erection	107	104



Hand rail installation work in progress near Meenambakkam station viaduct



Viaduct work in progress between Nanganallur road and Airport

# 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 and concourse slab completed. Station box - Base to concourse staircase 3nos completed, 135 out of 164 OTE duct erection completed. Ancillary building - Ground floor slab construction completed, First floor construction completed at Grid 6-9 &amp; Staging in progress at Grid 2-6. Entry Exit - Staircase in ES-03 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 ES01.</li> <li>• <b>High Court Station</b> : 215 out of 231 diaphragm wall panels for Entry/Exit structures Completed. ES05, ES01, ES02, VS06 &amp; ES04 base Slab construction completed. ES 01, ES 04, ES 06 Roof slab construction in progress. ES 06 - Base slab construction in progress. Ancillary Building - RCC walls and Columns construction in progress.</li> <li>• <b>Central Metro Station</b> : Station box D walls completed. Entry Exit 300 / 338 nos completed. Roof slab construction completed. 330.6m out of 384m concourse slab completed. 102.6m 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 Slab Excavation completed. upper track slab excavation in progress.</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. Saidapet Ramp : 149 m Base Slab and 44 m Roof Slab completed.</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 156 m on east side and 28.60 m 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> : 18 D'wall panels in Entry-A and 12 panels in Entry B completed. Block work and plastering in progress at Ancillary building. Utility gallery work in progress. Entry-A Roof slab work in progress. Architectural and MEP works in progress.</li> <li>• <b>Kilpauk Station</b> : Plastering work in progress at Ancillary building. Base slab excavation in progress at Entry-C. 7 D'wall panels completed at Entry-B. Road diversion work in progress. Architectural and MEP works in progress.</li> <li>• <b>Pachaiyappa's College</b> : 177/182 nos - OTE duct erection work in progress. Plastering and staircase work in progress at Ancillary building. Utility gallery work in progress at Entry-C. Road diversion work in progress. Architectural and MEP works in progress.</li> <li>• <b>Cross Passage Work</b> : Out of total 11no. of cross passages, 7 CP's completed 100% and 2 CP's of 85% 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> : 100% roof slab, concourse slab, base slab and all D-W completed. Platform work in progress with 85% completed. MEP &amp; architectural finish works in progress and rooms handover for System wide contractors in progress. Two entry exit RCC structure completed and in balance two work in progress.</li> <li>• <b>Anna Nagar East Station</b> : MEP and architectural finish works in progress and rooms handover for System wide contractors in progress. Two entry exit RCC structure completed and in balance three work in progress.</li> <li>• <b>Anna Nagar Tower Station</b> : Civil works of station box almost completed, platform work 100% completed, MEP &amp; architectural finish works in progress and rooms handover for System wide contractors in progress. Two entry exit RCC structure completed and in balance two work in progress. Utility restoration work in progress.</li> <li>• <b>Thirumangalam Station</b> : Civil works of station box almost completed, platform work 100% completed, MEP &amp; architectural finish works in progress and rooms handover for System wide contractors in progress. Two entry exit RCC structure completed and in balance two work in progress. Utility restoration work in progress.</li> <li>• <b>Thirumangalam Ramp</b> : All civil works of Ramp completed with surface permanent restoration work under progress.</li> </ul>



Work in progress at Washermenpet Station



Work in progress at High Court Metro Station



Work in progress at shenoy Nagar Station



Work in progress at Anna Nagar Tower Station



Work in progress at Anna Nagar East Station



Work in progress at Thirumangalam Station

## Rolling Stock Work Progress - Dec 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 indigenisation and technology transfer of Metro train manufacture.

### Trains delivered to depot:

A total of 32 trains including the 9 trains of import category, have been delivered to CMRL Koyambedu Depot. Trains 30, 31, & 32 were delivered to depot on 18th, 25th & 28th of December 2015.

### Trains under testing at CMRL facility:

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

The first twenty three (train No. 10 to 32) Sricity manufactured trains are delivered to CMRL Depot.

- Trains 10 to 20 have completed Rolling Stock tests in Depot and Mainline.
- Trains 21 to 32 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 of CMRL trains:

- Maintenance activities on these 7 trains are carried out by CMRL Rolling Stock Maintenance Team and the warranty obligation is done by the contractor.
- CMRL RS maintenance team has put its immense contribution towards performance of maintenance of trains and various other checks, even during the period of heavy rainfall and flood occurred at Chennai during the month Dec 2015. The dedication shown by the team is one of the major reasons for the trains to be operational during the days of flood.
- Apart from carrying out regular inspection and functional checks, the half yearly maintenance for 7 ROD trains was also conducted by CMRL RS maintenance team.
- Periodical inspection and maintenance of all Depot Major and Minor machines utilised for RS maintenance. Monthly mock drill for re-railing equipment installed in Rail Rescue Vehicle (RRV) was carried out on 12th Dec 2015 by RS Disaster Management Team to check the functionality of various RRV equipment.

### Trains under manufacturing at Sricity:

- Train 33 have completed all Routine Static test at Alstom factory Sricity and final inspection. The train will be progressively delivered to CMRL by first week of January 2016.
- 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 31.12.2015

S. No	Stations 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	780	420	400	3900	3850
4	Footings	63	62	39	38	Completed	
5	Column above tie beam	94	90	53	49	228	214
6.	Concourse level slab	2237	2205	1990	1800	11840	11200
7	Platform Level	Completed		1000	960	completed	
8	Roof Slab	1000	800	550	510	NA	NA
9	Column above platform	NA	NA	32	28	NA	NA

NA– Not Applicable



Work is in progress at Guindy Metro Station



Work is in progress at Nanganallur Metro Station



Work is in progress at St Thomas Mount Station

### Monthly mock drill of Re-railing equipment loaded in Rail cum road rescue vehicle (RRV)

The depot machine team under RS is responsible for Operation and Maintenance of all depot machines such as Diesel shunting loco, RRV, Automatic train wash plant, Under-floor wheel lathe etc. The re-railing equipment is housed in RRV which is used re-rail all derailed railway vehicles.

The functionality of this equipment is verified every month by Disaster Management Team which is part of Depot machine team. The Monthly mock drill of Re-railing equipment in RRV was performed by the RS - Disaster Management Team on 12.12.2015 at Delivery line near fouling point in depot between 10.20 hrs and 12.58 hrs.

During the mock drill, the functionality of various Re-railing equipment such as Power packs, Hydraulic Jacks, Tilting cylinders, Spreader, cutter, Airbags, Rescue trolley etc. are checked and found to be in order.



Setting up of beam and jacks and connecting to hydraulic control panel for re-railing operation



Unloading of re-railing equipment from RRV

## Training for Employees on Vigilance matters 2015

1. For enhancing preventive vigilance Awareness for CMRL employees, Vigilance division conducted a lecture on 09th Dec 2015 from 1100 hrs to 1310 hrs in CMRL Auditorium. The lecture was delivered by Dy CVO and the following topics were covered for duration of two hours.
2. Total of 40 participants attended the Training programme and the two hrs long session with 90 slides on above and the following subjects along with case studies from CVC, Examples were discussed, it was a highly participative and interactive session well appreciated by all participants indicated in the feedback provided.
  - a) Role of Vigilance
  - b) Vigilance Function
  - c) Fraud Prevention Policy
  - d) Reporting of Fraud
  - e) Investigation Procedure
  - f) Do's and Dont's for employees
3. Good Governance is of prime importance to ensure the benefits of development of the project to reach the public masses. Effective and proactive vigilance machinery can contribute to improving the quality of Governance and generate greater awareness among all employees about ill effects of corruption and means and ways to eradicate them.



*As one of the revenue generation initiatives, property development division, CMRL formulated film shooting policy on licensing of CMRL station premises and trains for shooting of films, documentaries, photography, TV series, advertisements, etc., in CMRL website. First applicant 24am studios had submitted their application form requesting to shoot their feature film at Koyambedu Metro Station. After scrutiny of application, shooting was held on 4th Nov 2015 in Koyambedu Station and also inside train. It may be noted that renowned cameraman PC Sriram, actor Shivakarthikeyan and Dance master Raju Sundaram were part of this feature film.*

### CMRL PD Department signs exclusive advertising contract!!



The Chennai Metro Rail Limited Property Development Department has recently signed an exclusive advertising contract with JCDecaux Advertising India Pvt Ltd for its rolling stocks. The 10 year contract with JCDecaux includes exclusive external wraps, internal & external branding.

Utilizing this unique advertising opportunity, Renault, the french automobile company is the "first brand" to advertise on the train wrap.

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