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Segment erection work completed in BP 137 & BP 138 at Reach-1A

Pier & Pier Cap work completed in BP 229 to BP 232 at Reach-1A
Memorandum of Understanding was signed between BMRCL & SBI for installing ATM’s at 36 Namma Metro Stations. The Agreement was exchanged between Sri Mahendra Jain, Managing Director, BMRCL, and Sri. S.M. Farooque Shahab, Chief General Manager, SBI in the presence of other Senior officials from BMRCL & SBI at BMRCL on 05th April 2018.
PHASE-II
REACH-1 Extension—(Baiyappanahalli to Whitefield-15.50 KM)

- Compensation package in respect of 322 properties amounting to ₹ 1128.34 Crores have been sent to SLAO, KIADB. SLAO has made payment in respect of 287 properties amounting to ₹ 946.26 Crores.
- In respect of Electric Utility Shifting of 52 properties, package in respect of 47 properties have been sent to SLAO. Building valuation report in respect of 5 properties has been received and valuation reports are being verified.
- In respect of 39 properties required for electrical utilities (additional) and additional lands from Indian Tin Industry to Whitefield, Land Committee has given the land valuation report. Building valuation of 13 properties have been received and are under verification. Valuation reports are awaited from Engineering Section in respect of 9 properties.
- Out of 38 Properties measuring 5368.54 sq meters required for viaduct between Jyothipura Station and K.R. Puram Station, packages in respect of 36 properties packages have been sent to SLAO KIADB for payment. Building valuation report in respect of 2 properties has been received and are being verified.
- 28(1) notification for lands between Baiyappanahalli and Jyothipura has been approved by the Government vide Government Notification CI 16 SPQ 2018, Dated 03.02.2018. Enquiry U/s 28 (2) has been completed and 28 (3) orders are awaited from SLAO, KIADB.
- 28(4) notification for B. Narayanapura Survey No. 75 to an extent 2925.73 sq, mtrs. has been sent to Government for approval on 24.03.2018.
- In respect of 42 properties required for viaduct from Tin Factory to K.R. Puram station (Vijinapur village) compensation packages of 40 properties have been sent to SLAO, KAIDB for payment and 2 properties are before the CRU for approval.

REACH-2 Extension—(Mysuru Road Station to Kengeri-6.465 KM)

- Compensation packages for 84 properties amounting ₹ 186.06 Crores have been sent to SLAO, KIADB and payment is made in respect of 84 properties amounting to ₹ 180.06 Crores.
- 28(4) notification in respect of 12 additional properties measuring 1192.13 sq. mtrs. is published in the Gazette on 08.03.2018.
- 28(1) notification of 21 additional properties pertaining to Challaghatta Depot, measuring 49633.41 sq. mtrs. is pending with the government for approval.
- 28(4) notification in respect of 8 properties measuring 62481.36 sq. mtrs required for Challaghatta Depot is published in the Gazette on 15.03.2018 and land valuation report is awaited.

REACH-3C—(Nagashandra to Bangalore International Exhibition Centre-3.77 KM)

- Compensation packages in respect of 62 properties amounting to ₹ 99.11 Crores have been sent to SLAO, KIADB. Payment has been made in respect of 43 properties and award amount has been deposited in the Civil Court in respect of 11 disputed cases amounting to ₹ 90.11 Crores and these properties have been handed over to Engineering section. 28 (4) notification pertaining to BIEC Section & Electrical Utility Shifting is published in the Gazette on 22.03.2018.
DETAILS OF LAND AND PROPERTY ACQUISITION FOR GOVERNMENT & PRIVATE PROPERTIES

REACH-3C—(Nagasandra to Bangalore International Exhibition Centre-3.77 KM)

- Property ID Nos. 34 to 49: 16 properties since there is a dispute regarding NHAI boundary line, it is proposed to conduct fresh JMC with NH Authorities to demarcate the BMRCL – NHAI boundary line. W.P. No. 34394/2017, 36947, 36952 / 2017 have been filed by some of the land owners seeking, direction from the Hon’ble High Court of Karnataka to conduct fresh JMC. Fresh JMC completed and draft 28(4) notification will be sent to SLAO, KIADB as per revised JMC sketch.

REACH-4B—(Yelachenahalli Cross to Anjanapura Township-6.29 KM)

- Compensation packages for 306 properties amounting to ₹322.91 Crores have been sent to SLAO, KIADB and payment has been made in respect of 292 properties amounting to ₹319.99 Crores.
- Land plan for Anjanapura Depot is being revised by Chief Engineer (P&D) and action is being taken to acquire the land.
- 28(1) notification for 1357.34 sq. mtrs. in 6 properties is sent for the Government for approval.

REACH-5 New Line-(R.V. Road to Bommasandra-18.820 KM)

- Out of total 661 properties acquired, compensation packages for 628 properties amounting to ₹1565.91 Crores have been sent to SLAO, KIADB and payment has been made in respect of 496 properties amounting to ₹1192.33 Crores.
- Notification u/s 28(4) in respect of 68 properties required for electric utility shifting is sent to Government press on 05.03.2018.
- 28(4) Notification in respect of 11 additional properties required for Ragigudda Station is sent to the Government press on 03.03.2018.
- 28 (1) notification for 94 properties required for Silk Board Station, Subways, Ramp, Loops and Viaduct in R V Road to Bommasandra stretch is published in the Gazette, enquiry U/s 28 (2) is fixed on 19th and 20th April 2018.

REACH-6 New Line-(Gottigere (IIMB) to Nagawara-21.25 KM)

- Out of 251 properties, compensation packages in respect of 202 properties amounting to ₹500.90 Crores have been sent to SLAO, KIADB for payment. Payment has been made in respect of 116 properties amounting to ₹313.53 Crores.
- Kothnur Depot – 28(4) notification is published in the Gazette on 22.02.2018 in respect of 57 properties to an extent of 91,809 Sq. mtrs.
- 28(4) notification is published in the Gazette on 28.01.2018 in respect of additional lands required for viaduct to an extent of 1579.00 sq. mtrs. for 59 properties.
- 28(1) notifications in respect of additional lands required for Ramp etc., 43 properties to an extent of 4797.19 sq. mtrs. is published in the gazette on 28.01.2018 and JMC is under progress.
- Notification u/s 28(4) of 30 properties to an extent of 606.50 sq. mtrs. to viaduct lands required for Electric Utility Shifting has been published in gazette on 09.11.2017 and valuation report is awaited.
REACH-6 New Line-(Gottigere (IIMB) to Nagawara-21.25 KM)

- JMC is completed for six metro stations i.e. (1) Dairy Circle (2) MICO (3) Langford (4) Vellara (5) M.G. Road (6) Shivajinagar and 28(4) notifications is approved by Govt. and is pending in Government press for publication in the gazette.

- JMC is completed for 6 Underground Stations i.e. (1) Cantonment (2) Pottery Town (3) Tannery Road and (4) Venkateshappura (5) Arabic College (6) Nagawara. 28(1) notification will be sent to SLAO, KIADB.

REACH-1Extension:- Construction of Elevated Structures (Viaduct) of length of 15.50 Kms. (approx.) consisting of 13 No of Stations from Baiyappenahalli dead end to Whitefield station dead end viz. Jyothipura Stn., K R Puram Stn., Mahadevapura Stn., Garudacharpalya Stn., Doddana Kundi Industrial Area Stn., Visvesvaraya Industrial Area Stn., Kundahalli Stn., Vaidhegi Hospital Stn., Satyasai Medicals Stn., ITPL Terminal Stn., Kaadugodi Stn., Ujwala Vidyalya Stn. & Whitefield Stn. in the extension on East side of East-West Corridor on Bangalore Metro Rail Project, Phase – 2

Name of the Contractor :- M/s ITD Cementation India Limited (JV) Two Packages (Package 1 & Package 2)

Progress of Package –1A (Reach-1A):-

Land Acquisition:-

- **Baiyappenahalli to Mahadevapura:** Abutment to Jyothipura alignment is finalized. Land acquisition is under progress.

- **Mahadevapura to Satya Sai Hospital:** Valuation of Properties and final notification has been completed. Building Demolitions are in progress.

- **Satya Sai Hospital to Whitefield:** Valuation of Properties and final notification has been completed. Property wise compensation proposals are submitted to KIADB. Disbursement to land owners is in progress.

- **BESCOM Utilities:** 80 numbers have been identified for shifting of BESCOM utilities such as RMU’s and Transformers. Property Valuation is under progress.

Demolition of Buildings / Structures Identified for Acquisition:- The contract for demolition of structures have already been awarded to M/S B.R. Chawla for the entire stretch of 15.500km. Demolition work is under progress.129 numbers of properties are demolished out of 160 Nos and 6 are in progress as far as Package 1A, balance 25 Nos is yet to start.

Shifting of Water Supply Lines & Underground Drainage (UGD) Lines:- The proposal for affected water lines has been identified along with BWSSB. Received an estimate for Rs.12.90 Crores from BWSSB. An amount of ₹ 4.88 Crores (50% of the cost estimate of ₹ 9.76 Crores) has been deposited to BWSSB. Further ₹1.354 Crores (50% of the cost estimate of ₹ 2.70 Crores) has been deposited to BWSSB on 23.12.2016. Tender for shifting of utilities from B. Narayanapura to Kadugodi – BWSSB issued LOA on 31.05.2017. Procurement of material is under progress. Tender for shifting of utilities from A. Narayanapura to B. Narayanapura – BWSSB has issued LOA on 18.05.2017. Procurement of material is under progress and Contractor has started excavation work for laying of 600 mm dia line from Benniganahalli to Jyothipuram.
220KV line from SAPLAB (Kundalahalli Station) to Satya Sai Station for about 3.00 km overhead line to be made underground: An amount of Rs. 64 Crores has been deposited to KPTCL for taking up the work.

1) For 11 KV Line:

Package-1 Baiyappanahalli to Lowery School – Tender has been opened and is in progress.
- From BP 114 to BP 125 cable is laid.
- From BP 123 to BP 132 Right Hand side cable is laid.
- From BP 160 to BP 172 Left Hand side cable is laid.
- Doddanakundi Station Area Right Hand side cable is laid.
- LT crossing at skylark cable laid. LC awaited from BESCOM for above works and releasing OH Lines.

Package-2 Lowry School to EPIP – Utility Shifting work has been commenced based on the LOA dated 19.07.2017. Tender is approved and work is under progress.

2) For Lamp Pole and Light Poles:

Package-1 Baiyappanahalli to Hoodi– 11 KV crossing line, shifting work is in progress. 11 KV line shifting work is in progress from Hoodi to Mahadevapura.

Viaduct & Stations: along with Road Widening works:-

Reach-1A:
- M/s. ITD Cementation India Limited-ITD (JV) vide LOA No BMRCL/Phase2/Reach1A/BYP-VIA/Via & Stn /2016/14/LOA/ dated 11.04.2017. R1A Contract agreement was signed on 23.05.2017.
- 471 number of Piles in viaduct and 360 Piles in Station, Total 831 Piles are completed. 76 Pile Caps in Viaduct and 32 number of Pile Caps are completed in stations. 39 Number of Piers are completed in Viaduct and 15 number of Piers are completed in K.R. Puram Station. 1 Span Segment erection is completed and 2nd Span is in progress. Road widening work is in progress.
NEWS LETTER

REACH WISE PROGRESS OF PHASE-2

Pier and Pier cap casting in Progress from BP141 to BP144

Exit/Entry Footings at Doddanakundi Station is in progress
Progress of Package-1B (Reach-1B):

Building Condition Study and Structural Analysis: The work has been awarded to M/s. Civil Aid Techno Clinic Pvt Limited, Bangalore.

- Alignment finalization from BP-470 to Whitefield station is completed by BMRCL design section; Preparation of online notification for land acquisition is in progress by Land section, Preparation of BCS drawings will be started after release of land acquisition notification.

Valuation of building structures:

- The valuation of buildings to be demolished along the alignment between BP-271 to BP-470 is completed.
- Since land acquisition works from BP-471 to Whitefield is in progress property valuation for the stretch between BP-471 to Whitefield is balance.

Demolition of buildings/ structures identified for acquisition: The work of demolition of buildings has been awarded to M/s. B.R. Chawla for the entire stretch.

- The demolition work is in progress in the stretch between BP-271 to BP-470.
- Till now, out of 142 properties 70 properties have been demolished.

Shifting of water supply lines and Underground Drainage (UGD) lines:

- The affected water supply lines and Underground Drainage Lines are identified along with concerned BWSSB Engineers for the entire stretch.
- Tenders for shifting of Water supply pipe lines and Underground Drainage Lines for the stretch between B. Narayanapura to Kadugodi have been called by BWSSB. The work has been awarded and LOA is issued to the agencies. The work for shifting of water supply and Underground Drainage Lines works between B. Narayanapura to Kadugodi is awarded and is in progress at various location along the alignment.
- The work for shifting of water supply and Underground Drainage Lines has been started on site at various locations along the alignment.

Electric Utility Shifting:

- For 220 KV and 66 KV line LOA has been issued to M/S. UNIVERSAL CABLES LTD by KPTCL on 27.12.2016, Work has started on 2nd May 2017. Overhead HT lines has been converted into Underground. Removal of HT lines and Tower dismantling is completed.
- Removal and relocation of 11kv Electrical lines, RMU’s and LT lines along the alignment is in progress.

Viaduct and stations (including Road widening works):

- The General Arrangement Drawing and land plans have been prepared and after BP-470 alignment is not finalized.
- The Detailed Design and Drawings of viaduct and stations are in progress.
- The Road widening plan has been prepared and submitted to Traffic police and permission letter is obtained from Addnl. Commissioner of Police (Traffic). Road widening work along the alignment is in progress in consultation with Traffic Police and BBMP.
Progress of Package-1B (Reach-1B):

The work has been awarded to M/s. ITD Cementation India limited –ITD (JV) Vide LOA No. BMRCL /Phase2/ Reach1B/VIA-WTF/Via&Stn/2016/15/LOA/3978 dated 28.04.2017. R1B Contract agreement was signed on 09.06.2017.

- Total 6193 Rm of road widened (Upto DBM) at various locations of viaduct (LHS + RHS).
- Total 1620 Rm of road widened (Upto DBM) at station locations.
- 484 no’s of working pile have been completed in Viaduct portion.
- 294 no’s of working pile have been completed in Stations.
- 81 no’s of pile caps have been completed in Viaduct portion.
- 28 no of pile caps have been completed in Station locations.
- 38 no’s of pier have been completed in Viaduct portion.
- 21 no’s columns upto concourse level have been completed in station locations.
- 36 no’s of pier cap have been completed in Viaduct portion.
- 27 no’s of Pedestal have been completed in Viaduct portion.
- 26 no’s of crash barrier have been completed in Viaduct portion.
- 12 no’s of crash barrier have been completed in Station locations.
- 123 no’s of Segments are casted at Casting yard 1.
- 29 no’s of post tension I-girder and RCC beam are casted at Casting yard 2.
- 12 no’s of pre tension I-girder are casted at Casting yard 2.

Progress of works at Reach-1B

Pier & Piercap works completed at BP464 - BP469

Reinforcement binding & cable profiling in progress for Transition Span I Girder
Progress of works at Reach-1B

Precasting of Segment Span BP310-BP 311 is in Progress

Pier reinforcement binding work is in progress for BP 286

Pier upto Concourse level is in Progress at Ujjwala Vidyalaya Station
REACH-2Extension-Reach-2A:- Construction of Elevated Structures of Length 3.945 kms (approx) from Mysuru Road Station dead end to Pattanagere Station including 4 Nos. of Elevated Metro Stations viz Nayandahalli Station, Rajarajeshwarinagar Station, Jnanabharathi Station and Pattanagere Station in the extension on west side of East-West Corridor of Bangalore Metro Rail Project, Phase-2.

Name of the Contractor :- M/s IL&FS Engineering Construction Company Limited

Total Cost of the Project :- Rs. 327.00 Crores

Shifting of Water Supply Lines & Underground Drainage (UGD) Lines:- The affected water supply lines and Underground Drainage Lines are identified along with concerned BWSSB Engineers for the entire stretch. The drawings are prepared and submitted to BWSSB for shifting the identified utilities to the new location of utility corridor. BWSSB has submitted the estimate. According to that BMRCL has deposited the estimated amount to BWSSB. The work has been taken up by BWSSB and completed at Jnanabharathi, Rajarajeshwari station and Nayandahalli Station in all respects.

Road Widening Works:- Road Widening works from Nayandahalli to Rajarajeshwarinagar both side completed and Jnanabharathi Station 100% road works completed and also at Pattanagere station. In Station's both side drain work with Road widening/diversion work is in Progress. Retaining wall work is under construction.

The Estimate for road widening from Jnanabharathi to Pattanagere has been submitted by National Highway PWD Karnataka to BMRCL. The required amount has been deposited by BMRCL for Road Widening purpose for National Highway, PWD. Road Widening work from Jnanabharathi to R.V College is completed by National Highway PWD, Karnataka.

Viaduct & Stations:-
- The construction of 3.945 KM viaduct and four stations has been awarded to M/s IL&FS construction Pvt Ltd. and the work is in progress. Uncharted utility checking, Piling, Pile Cap, Pier and Pier Cap works are under progress. Segment Erection for Thirty one spans is completed.
- In Stations – Pile, Pile Cap, Column – Up to Concourse Level and Portal beam at concourse level casting work is in progress. Column from Concourse Level to Platform Level and Cross Beam at Platform and Rail Level is under progress at Nayandahalli Station, BGUC, Jnanabharathi Station. Portal Cross Beam at BGUC completed at concourse level and nine numbers at Pattanagere Station casting is completed. Three numbers Portal Beam at Concourse Level is casted at Nayandahalli and six numbers at Rajarajeshwarinagar Station.
- Phase1 incomplete Portal Pier No 438 B Pier has been casted.
- 220 KV High Tension Tower line has been shifted from P457 & P473 and piling work has also been completed for this pier.

Precast concrete works of Segment Casting, I Girder Casting are under Progress at Casting Yard. Parapet casting work is under progress at casting yard. Piling work 100% completed in all the four stations. Nayandahalli, Rajarajeshwari, Jnanabharathi and Pattanagere stations. The site office for field work has been established at Deepanjalinagar Property Development area.
521 Pier Cap Bearing fixing work is in progress

Piers after Curing period from P505 to P501

Road restoration works between P444 to P460 (LHS) near Nayandahalli

Slab reinforcement of Concourse level at Jnanabharathi Station
REACH WISE PROGRESS OF WORKS OF PHASE-II

REACH-2Extension-Reach-2B:- Construction of Elevated Structures (Viaduct) of length of 4.869 Kms. (approx.) from Pattanagere Station (excluding) to beginning of Challagatta Depot including 2 Nos of Elevated Metro Stations viz. Mailasandra Station and Kengeri Station in the extension on west side of E-W Corridor on Bangalore Metro Rail Project, Phase – 2

Name of the Contractor :- M/s Soma Enterprise Limited,

Total Cost of the Project :- Rs. 332.00 Crores

Land Acquisition:- The land acquisition for Reach-2B from Pattanagere Station to Kengeri Arch Bridge is complete and the land is in position with BMRCL. From Kengeri Arch Bridge to Challagatta Depot the preliminary notification for acquisition has been issued for Joint Measurement which is in progress.

Building Condition Study & Structural Analysis:- The work has been awarded to M/s Civil Aid Techno Clinic Pvt Ltd. and the work has been completed from Pattanagere Station to Kengeri Arch Bridge and from Kengeri Arch Bridge to Challagatta the work is in progress.

Demolition of Buildings / Structures Identified for Acquisition:- The work has been awarded to M/s Binyas Contech Pvt Ltd and M/s Sai Retro Fabs. The work has been completed from Pattanagere station to Kengeri Arch Bridge and from Kengeri Arch Bridge the work will commence after acquisition of properties.

Road Widening Works:- From Pattanagere Station to NICE Road the Road Widening work has been started by National Highway PWD Karnataka. 97% of the work is completed.

Viaduct & Stations:- The construction of 4.869 KMs Viaduct and Stations has been awarded to M/s SOMA Enterprises Limited and the work is in progress.

Test Pile :- Two numbers of Initial Vertical Pile Load test is completed for the Viaduct. Barricading work is in progress. Working Pile:- The work is in progress.

Casting Yard at Kanminike near Bidadi:- Two numbers of Batching Plant, Segment Casting Bed is in progress. The site office for the field work has been established at Deepanjalinagar, Property Development area. All other preliminary works is under progress.

View of P637 Portal Beam staging work is in progress at Viaduct

View of Staircase-5 Reinforcement is in progress at Mailasandra
REACH WISE PROGRESS OF WORKS OF PHASE-II

REACH-3Extension-Reach-3C:- Extension line of Reach-3b of Phase-1 on Northern Corridor from Hessaraghatta Cross to Bangalore International Exhibition Centre (BIEC) viz Manjunathanagara Stn., Jindal Stn., & BIEC Stn. The section length is 3.77 Kms with 3 Stations and fully Elevated Section.

Name of the Contractor :- M/s Simplex Infrastructures Limited.

Total Cost of the Project :- ₹ 298.65 Crores, Letter of Acceptance is issued on 27.02.2017.

Land Acquisition:- Payment of compensation towards acquired land and taking over of land by KIADB is under progress. Handing over of land to the Engineering section part by part is under progress. Out of 62 private properties, 46 Nos. of properties are handed over to Engineering section for execution of work. 43 properties are clear from any issues.

Demolition of Buildings / Structures Identified for Acquisition:- The work of demolition of buildings has been awarded to M/s. SAI Retro Fabs for the entire stretch. Out of 54 properties to be demolished 24 properties have been demolished.

Viaduct & Stations (including Road Widening works):- Issue of GFC drawings is in progress from the Design wing of BMRCL. The process for obtaining permission for use of NHAI service road/ROW for construction of viaduct and stations of Bangalore Metro Rail is under progress, with NHAI.

Notice to proceed to start the work has been issued on 27.04.2017 to the contractor, M/s. Simplex Infrastructures Limited.

- Development of casting yard is under progress. Project office of Simplex is ready at casting yard. Quality lab set up has been completed and calibration of Lab equipment's completed. Erection and calibration of one number of batching plant is completed. One 15MT Gantry erected at the casting yard and components of 80MT Gantry arrived at the Casting yard. 2nd set of 80 MT and 15 MT Gantry erection is under progress. Raft of 3 segment casting beds completed. One set of intermediate segment shutters (soffit – 1 set, outer form – 2 sets, inner form – 4 sets & bulk heads – 3 sets) & pier head segment shutters for 28m span are available at casting yard & 2nd casting bed mobilized and alignment is in progress, 2nd set of shutters are expected shortly.
  - 1 mock up segment & 24 precast segments casted till date.
  - Mock up pier (2.6m x 1.6m) completed at casting yard. 1 set of 2.6m x 1.6m pier & pier cap shutters & 1 set of 3m x 1.6m pier shutters are available at site.

122 Barrication boards are erected at Manjunathnagar and Jindal Station and 300 boards at viaduct work site. Construction of drain at station & viaduct portion is in progress. Drain of length 504m completed and 66 no's of Precast drain of length 2.5m each casted at casting yard till date.

4 no. of Test piles and 4 No's of Initial vertical pile load tests (IVLT) completed out of 5. 35 (1200 mm) & 19 (600 mm – Off Road) working piles at Manjunatha Nagar station, 35 piles (1200 mm) at Jindal Station and 59 piles (1200mm) of viaduct casted as on March 2018. Contractor has mobilized 4th piling rig to site and yet to be commissioned. 6 Pile caps of viaduct casted as on March 2018. 17 nos. of Borehole for soil investigation is complete as on date.
REACH WISE PROGRESS OF WORKS OF PHASE-II

First casting bed – Segment casting works is in progress

Second casting bed erection is in progress (Shutters are in transit)

Segment Casting work is in progress

Piling works is in progress

Precast Segment Stacking

Pile Cap work is in progress
REACH WISE PROGRESS OF WORKS OF PHASE-II

REACH-4Extension-Reach-4B:- Construction of Elevated Structures of length 6.524 km (approx) from Puttenahalli Cross Station to Anjanapura Township Station and further viaduct including 5 Nos. of Elevated Metro Stations Viz. Anjanapura Road Cross Station, Krishna Leela Park Station, Vajarahalli Station, Thalaghattapura Station and Anjanapura Township Station.

Name of the Contractor :- M/s Nagarjuna Constructions Company Limited.

Total Cost of the Project :- Rs. 508.86 Crores.

Viaduct & Stations:-
The work of Construction of this Project is awarded to M/s Nagarjuna Constructions Company Limited and the work is in progress.

- All major works like Piling, Pile caps, Piers and Pier caps, Road widening, Segment erection, Bearing Installation, Drain works etc. are in progress along Viaduct.

- All major works like piling, casting of plinth beams, pile caps, piers, pier arms, columns, Deck Slabs, Concourse Slabs, Track Level slabs, I-Girder erection and Drain works, Service Road etc. are in progress at Anjanapura Cross Road Station, Krishna Leela Park Station, Vajarahalli Station, Talaghattapura Station & Anjanapura Township Station.

- 792 nos of Piles out of 838 piles are completed for Viaduct structures. 746 nos of Piles out of 777 Nos of piles are completed for Station locations.

- 169 nos of Pile caps out of 192 nos are completed for Viaduct structures. 175 nos of Pile caps are completed out of 313 nos for open foundations off-road structures at Station locations.

- 48 nos of Pile caps are completed out of 50 nos for C-Grid at Station locations.

- 170 nos of Piers are completed out of 192 nos for Viaduct structures & 47 Nos of Piers upto Concourse Level out of 50 nos are completed at Station locations.

- 47 nos of Pier Arm for Concourse level are completed out of 50 nos at Station locations. 42 nos of Pier Arms for Track Level out of 50 nos are completed at Station Loactions.43 nos of Piers above Concourse level are completed out of 50 nos at Station locations. 29 nos of concourse slabs are completed out of 45 nos at stations locations. 20 Track level slabs are competed out of 45 nos at station locations.

- 34 numbers of Platform level slabs are completed out of 90 numbers at Station locations.

<table>
<thead>
<tr>
<th>SI No</th>
<th>Launching Activities (Viaduct)</th>
<th>Launching Activities (Stations)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LG-01 39 Segmental Spans are erected from EP-128 to EP-143 &amp; EP-144 to EP-168</td>
<td>Anjanapura Road Cross Station I-Girder erection has been completed.</td>
</tr>
<tr>
<td>2</td>
<td>LG-02 28 Segmental Spans are erected from EP-183 to EP-211</td>
<td>Vajarahalli Station–I-Girder erection has been completed.</td>
</tr>
<tr>
<td>3</td>
<td>LG-03 22 Segmental Spans are erected from EP-237 to EP-258</td>
<td>Krishna Leela Park Station I-Girder erection has been completed.</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Talaghattapura Station-I Girder Erection of 70 numbers completed out of 121 numbers.</td>
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</tbody>
</table>
Casting Yard: - NCCL has been set up their Casting Yard on 20 Acres of land near Agara Cross (near Tataguni village), 4km away from EP344 (last pier of R4B Project)

The following activities are in progress at the Casting Yard:

- Setting up of Batching plants, 60cum/hr & 30cum/hr.
- Segment and PSC I-Girder casting beds.
- Setting up of site office, stores, QA/QC lab, etc.
- 3 nos of 20T, 1 no. of 80T& 1 no of 120T Gantries are erected & commissioned.
- 5 Long line & 5 Short line Beds are commissioned for Segment casting (One Bed for Curved Span).
- 8 Beds are commissioned for I-girder casting (Pre-tensioned I-Girders).
- 11 Beds are commissioned for I-girder casting (Post-tensioned I-Girders).
- Reinforcement works for Piles, Pile caps, Piers, Pier caps, I-Girders, Segments and drains are in progress.
- Pre-Casting of Segments, I-Girders, Parapets and drains are in progress.

Casting of Segments of 1368 nos are completed out of 1816 numbers.
Casting of Pre-Tensioned I-Girders of 354 nos are completed out of 425 numbers.
Casting of Post-Tensioned I-Girders of 168 numbers out of 240 numbers are completed.
Casting of Parapets of 369 numbers out of 3632 numbers are completed.
REACH-5 (New Line) R V Road Station to Bommasandra Station viz. R V Road Stn., Ragigudda Stn., Jayadeva Hospital (Interchange) Stn., BTM Layout Stn., Central Silk Board Stn., HSR Layout Stn., Oxford College Stn., Muneshwaranagar Stn., Chikkabegur Stn., Basapura Road Stn., Hosa Road Stn., Electronic City-1 Stn., Electronic City-2 Stn., Huskur Road Stn., Hebbagodi Stn., Bommasandra Stn. The section length is 18.82 Kms with 16 Stations fully Elevated Section. R V Road Station is on existing North-South Corridor with passenger interchange.

Building Condition Study & Structural Analysis:- The work has been awarded to M/s. Civil Aid Techno Clinic Pvt Ltd., Bangalore.
- The BCS work for the stretch between Central Silk Board to Bommasandra is completed.
- The BCS for the section between Central Silk Board to RV Road stretch is in progress.

Demolition of Buildings / Structures Identified for Acquisition:- The work of demolition of buildings has been awarded to M/s. B.R. Chawla for the entire stretch. The demolition work is in progress in the stretch between Central Silk Board and Bommasandra.

Shifting of Water Supply Lines & Underground Drainage (UGD) Lines :- The affected water supply lines and Underground Drainage lines are identified along with concerned BWSSB Engineers for the entire stretch. The work for shifting of water supply and Underground Drainage works between Central Silk Board and Bommasandra is awarded and LOA is issued to the agencies and shifting of water supply lines is in progress.

Valuation of Building Structures:-
- The valuation of buildings to be demolished between Central Silk Board to Bommasandra is completed for this section.
- The work of valuation for the stretch between Central Silk Board and RV Road is in progress.

Viaduct & Stations (Including Road Widening works):-
- The General Arrangement Drawing are being issued progressively as per the work requirement.
- The Road Widening plan has been prepared and submitted to Traffic Police and permission letter is obtained from Addnl. Commissioner of Police (Traffic).
- The proposed traffic diversion plan along Marenahalli Road/Outer Ring Road has been shown to the concerned Traffic police. The approval for the same is received.
- Road Widening work is in progress between R V Road and Bommasandra.

The Tenders are awarded for Package -1, Package-2 & Package-3 of Reach 5 Line for Construction of Viaduct and Stations of packages between
- Bommasandra to Hosa Road of 6.41 Kms length (Package-1) :- The work of construction of viaduct and stations between Bommasandra - Hosa Road of 6.41Km length is awarded. The casting yard is being established by the agency at Chandapura Road. Casting and testing of test piles is completed. Piling work has been commenced for viaduct and Electronic City-2 Stations, Bommasandra, Hebbagodi Stations. The trial trenching work is completed for identification of UG utilities for confirmation of infringement with metro structures. The drain work is in progress wherever available land stretches.
**REACH WISE PROGRESS OF WORKS OF PHASE-II**

- **Hosa Road to HSR Layout of 6.4 Kms length (Package-2)**: The work of construction of viaduct and stations between Hosa Road - HSR Layout of 6.4Km length is awarded. Piling work has been commenced for HSR Layout, Oxford College Station, Muneshwaranagar, Chikkabegur, Hosa Road Stations and Viaduct sections. The drain work, viaduct and station construction is in progress wherever land is available in the stretches.

- **HSR Layout to R V Road of 6.34 Kms length (Package-3)**: The work of construction of viaduct and stations between HSR layout to R V Road of 6.34Km length is awarded. The casting yard work is nearing completion at Hommadevanahalli on Bannerghatta Road. Road widening work in the stretch between RV Road to Jayadeva is completed and for balance stretch between Jayadeva and HSR Layout is in progress. Tree Transplantation work is in progress. Transplantation of 200 trees has been completed out of 250. Test pile work is in progress.
The entire Network Map of Namma Metro Phase-1, at total length of 42.30 Kms, Phase-2 at total length of 72.095 Kms (13.79 km Underground) and 61 Stations with 12 Underground Stations & Phase-2A at total length of 17.00 Kms. Each line can be traced along with the Station Names in the Map below.

Namma Metro stands for ‘reduced journey times, cutting fuel costs, accident reduction and lower pollution’