Highlights of November 2018

Sri. H.D. Kumaraswamy, Hon'ble Chief Minister of Karnataka along with Dr. G. Parameshwara, Hon'ble Deputy Chief Minister of Karnataka Flagged off the 3rd Six Car Metro Train on 22.11.2018 at Dr. B.R. Ambedkar Station, Vidhana Soudha.

BMRC participated in the Makkala Habba organized by the Women & Child Development Department, Govt. of Karnataka at Balbhavan, Cubbon Park on 10th & 11th Nov 2018.

Sri L. Tochhawn, Director General of Commercial Audit & Ex-Officio Member Audit Board, Hyderabad travelled in the Metro Train & visited our Stations along with Sri N.M Dhoke, Director-RSE O&M on 23.11.2018.
Highlights of November 2018

Ground Breaking Ceremony for the Development of Veerasandra Lake by Sri Ajay Seth, Managing Director, BMRCL in presence of Mr. Bhaskar Bhat, Managing Director, Titan Company Limited and also the Director on the Board of TATA Group on 25.11.2018.

On 29.11.2018, Jnanpitha Awardee Dr. Chandrashekar Kambar, President Sahitya Academy in the presence of Sri Ajay Seth, Managing Director, Sri N.M. Dhoke, Director-RSE/O&M along with other Senior Officials inaugurated the BMRCL Kannada Sangha & Celebrated the 63rd Kannada Rajyotsava at Baiyappanahalli Depot.
PHASE-2

REACH-1 Extension—(Baiyappanahalli to Whitefield-15.50 KM)

- Compensation package in respect of 427 properties amounting to ₹ 1429.33 Crores have been sent to SLAO, KIADB. SLAO has made payment in respect of 418 properties amounting to ₹ 1131.22 Crores and compensation packages are being sent to SLAO, KIADB.
- 28(4) notification in respect of 17 additional properties measuring 4588.51 sq. mtrs. is published in the Gazette on 26.11.2018.

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

- Compensation packages for 120 properties amounting to ₹ 503.23 Crores have been sent to SLAO, KIADB and payment is made in respect of 116 properties amounting to ₹ 408.15 Crores.
- 28 (1) notification for balance area of 18.09 acres required for Challaghatta Depot is sent to SLAO, KIADB.

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

- Compensation packages in respect of 72 properties amounting to 115.99 crores have been sent to SLAO, KIADB. Payment has been made in respect of 48 properties and award amount has been deposited in the civil court in respect of 11 disputed cases amounting to ₹ 100.38 Crores and these properties have been handed over to the Engineering Section.
- Compensation packages are sent to SLAO, KIADB in respect 2354.00 sq. mtrs in 6 properties acquired for BIEC Station and Electrical Utility Shifting.
- Prop. ID No. 34 to 49: (16 properties). Since there is a dispute regarding 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 to conduct fresh JMC. Accordingly fresh JMC has been conducted and 28(1) measuring 151.32 sq. mtrs. and 28(4) measuring 407.62 sq. mtrs. notifications are sent to Govt. press on 27.11.2018.
- Additional 4 properties measuring of 422.58 Sq. mtrs. required for of Manjunathnagar Metro Station, Draft 28(4) Notification is sent to SLAO, KIADB on 29.10.2018.
- 2 properties measuring 269.69 sq. mtrs. required for Dasanapura and Nagasandra Subway. 28(4) Notification is submitted to Government on 27.11.2018.

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

- Compensation packages for 306 properties amounting ₹ 330.99 Crores have been sent to SLAO, KIADB and payment has been made in respect of 297 properties amounting to ₹ 322.44 Crores.

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

- Out of total 877 properties acquired, compensation packages for 754 properties amounting to ₹ 1823.29 Crores have been sent to SLAO, KIADB and payment has been made in respect of 655 properties amounting to ₹1370.84 Crores.
- Notification u/s 28 (4) for 962.69 sq.mtrs required for Viaduct from Rupena Agrahara to Hongasandra has been sent to Government for approval.
- Notification u/s 28(4) for 37354.11 sq. mtrs of additional land required for Hebbagodi Depot is published in the Gazette on 29.11.2018.
• Notification u/s 28(1) for 1011.28 sq. mtrs. required for Electronic City–1 Station and Viaduct near Central Silk Board is published in the Gazette on 29.11.2018.

• Enquiry u/s 28(3) for 6404.73 sq. mtrs. required for Viaduct has been completed and orders will be issued shortly.

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

• Out of 340 properties, compensation packages in respect of 245 properties amounting to ₹ 557.21 Crores have been sent to SLAO, KIADB for payment. Payment has been made in respect of 216 properties amounting to ₹ 493.59 Crores.

• 28(4) notification is sent to Government on 28.02.2018 in respect of additional lands required for viaduct to an extent of 1570.00 sq. mtrs published in the Gazette on 29.08.2018 and valuation from the Land Committee is received. Packages are being prepared.

• 28(1) notification 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 18.01.2018 and JMC is completed. 28 (4) notification is being sent to SLAO, KIADB.

• Notification u/s 28(4) in respect of 80 properties measuring 16672.954 sq. mtrs. pertaining to (1) Dairy Circle (2) MICO (3) Langford (4) Vellara (5) M.G. Road (6) Shivajinagar Stations is published in the Gazette and valuation from the Land Committee is received. Packages are being prepared.

• Notification u/s 28(4) in respect of 43 properties measuring 1399.465 sq. mtrs pertaining to additional lands for Underground Metro Stations from Dairy Circle to Shivajinagar is published in the Gazette on 29.08.2018 and valuation from the Land Committee is received. Packages are being prepared.

• Notification u/s 28(1) in respect of 244 properties measuring 46,806.22 sq. mtrs pertaining to Underground stations. 1) Bamboo Bazar, 2) Pottery Town, 3) Tannery Road, 4) Venkateshpura, 5) Arabic College, 6) Nagawara is published in Gazette on 29.08.2018. U/s 28(3) orders from SLAO, KIADB is awaited.

• **Kothnur Depot** – 28(4) notification is published in Gazette on 22.02.2018 in respect of 58 properties to an extent of 91,809 Sq. mtrs. Compensation packages have been sent to SLAO, KIADB. Payment has been made in respect of 21 properties package amount of ₹ 9.80 Crores deposited to court. In respect of additional 8 properties measuring to 27,182.06 sq. mtrs. is sent to Government for approval on 19.07.2018 for notification u/s 28 (4).

**PHASE_ 2 A (K.R. Puram to Central Silk Board-17.00 KM)**

• Notification u/s 28(1) for 36784.29 sq. mtrs. required for Outer Ring Road Line from K.R. Puram to Central Silk Board is sent to the Government Press on 28.11.2018.
REACH-WISE PROGRESS OF PHASE-2

REACH-1 Extension: Construction of Elevated Structures (Viaduct) of length of 15.250 Kms. (approx.)

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:-

- **Baiyappanahalli to Mahadevapura**: Abutment to Jyothipura 3 properties has been received from Land Section. Demolition is yet to start.

- **Jyothipura to K R Puram**: Demolition of properties is in progress.

- **Mahadevapura to Visvesvaraya Industrial Area**: Valuation and final notification of properties are completed. Building Demolition are in progress. 5 Nos of properties is yet to be received from Land Section.

- **BESCOM Utilities**: 80 numbers have been identified for shifting of BESCOM utilities such as RMU’s and Transformers. Compensation (payment to owner) is under progress.

Demolition of Buildings / Structures Identified for Acquisition:- The contract for demolition of structures have been awarded to M/S B.R. Chawla for the entire stretch of 15.500 KM. Demolition work is under progress. Out of 280 properties 239 properties are demolished and 35 Nos are ready for demolition, balance 6 Nos is yet to start.

Shifting of Water Supply Lines & Underground Drainage (UGD) Lines:- The proposal for affected water lines have been identified along with BWSSB. 300 mm Dia BWSSB water line shifting is completed near K.R. Puram Foot Over Bridge.

**220KV line from SAPLAB (Kundalahalli Station) to Satya Sai Station for about 3.00 km overhead line to be made underground**: An amount of ₹ 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 & Package-2 Lowry School to EPIP. Utility Shifting work commenced based on the LOA dated 19.07.2017 and for Lamp Pole and Light Poles, from Baiyappanahalli to Hoodi.

- Cable laid from BP 90 to BP 160 Right Hand side. BP 170 to BP 180 Right Hand side cable is laid. BP 181 to BP 210 Right Hand Side cable is laid. BP 220 to BP270 Right Hand side cable is laid. Cable charged from BP 100 to BP 130, BP 139 to BP 141 work is in progress. BP 230 to BP 236 (including Doddane Kundi Station) cable charged. BP 183 to BP 214 Left Hand Side cable is laid. BP 100 to BP 150 Left Hand Side Cable is laid. BP 150 to BP 160 work is in progress. BP 160 to BP 250 Left Hand Side cable is laid. BP 250 to BP 260 work is in progress.
REACH WISE PROGRESS OF PHASE-2

- LT crossing at Skylark cable laid. LC awaited from BESCOM for above works and releasing OH Lines. BP 93 to BP 137 RHS & BP 183 to BP 199 cable laid & awaiting for Line clear. BP 162 to 172 Left Hand Side charged. BP 181 to 200 Left Hand Side charged.

Viaduct & Stations: along with Road Widening works:-
- 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.
- 793 piles in Viaduct and 376 Piles in Station, total 1169 Piles completed. 168 Pile cap in Viaduct and 58 Pile cap in Stations are completed. 142 nos. of Pier is completed in Viaduct and 68 nos of Pier up to concourse level at station are completed. 15 nos upto Platform level is completed. 23 Nos Concourse Level Pier Arm, 16 nos on Track Level Pier Arm are completed in K.R Puram and Doddanakundi Stations. 40 Spans Segment erections completed. Road widening work is in progress. Station I-Girder Erection 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.
- The BCS work for the stretch BP-271 to BP-503 is completed.
- Alignment finalization from BP-271 to BP-503 is completed by BMRCL design section. Preparation of online notification for land acquisition is completed by Land section.

Valuation of Building Structures:
- All the acquisition properties are demolished except R1E-200B, R1E-200D, R1E-235 and R1E-249 in the alignment between BP-271 to BP-503.
- Taking position of forest land is in discussion with higher officers of forest department. On Left Hand Side of the alignment from BP394 to Whitefield Station (BP-503). Work is yet to be started in property R1E-247, 248 and R1E-254.
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 completed in the stretch between BP-271 to BP-503 (except R1E-200B, R1E-200D, R1E-235 and R1E-247).
- Till now, out of 100 properties 72 properties demolition is completed, 24 properties are open land and other 4 properties is yet to be 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 in progress at various location 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. At Satya Sai Station 66 Kv Underground Cables diversion 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 Detailed Design and Drawings of Viaduct and Stations is completed.
- Road widening work along the alignment is in progress in consultation with Traffic Police and BBMP.
- Tree cutting permission is sought from the forest department for 35 Nos at Kadugodi Station, permission is awaited.

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 7341 Rm of road widened (Upto DBM) at various locations of viaduct (LHS + RHS).
- Total 2125 Rm of road widened (Upto DBM) at station locations.
- 1051 no’s of working pile have been completed in Viaduct portion.
- 412 no’s of working pile have been completed in Stations.
- 198 no’s of pile cap have been completed in Viaduct portion.
- 61 no’s of pile cap have been completed in Station locations.
- 153 no’s of pier have been completed in Viaduct portion.
- 59 no’s columns/pier up to concourse level have been completed in station locations.
NEWS LETTER

REACH WISE PROGRESS OF PHASE-2

- 147 no’s of pier caps have been completed in Viaduct portion.
- 87 no’s of Pedestal have been completed in Viaduct portion.
- 111 no’s of crash barrier have been completed in Viaduct portion.
- 59 no’s of crash barrier have been completed in Station locations.
- 732 no’s of Segments are casted at Casting yard 1.
- 95 no’s of post tension I-girder and RCC beam are casted at Casting yard 2.
- 241 no’s of pre tension I-girder are casted at Casting yard 2.
- 174 no’s of Pre cast Pier Arm are casted at Casting yard 2.
- 311 no’s of Parapet casting have been completed in Viaduct portion.

Piling work is in progress at Whitefield Station

LG-2: Re-Erection of launching girder at BP315-316 is in progress
Reach 2 Extension 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

Land Acquisition: - The land acquisition for Reach 2A for the viaduct from Nayandahalli station to Pattanagere Station including 4 stations are completed. A piece of land measuring 134 sqm in P/no 46A is only pending. There is no problem for construction activities but required for Road Widening before final handing over.

Shifting of Water Supply Lines and Underground Drainage (UGD) lines: - All identified works were taken up by BWSSB and completed at Jnanabharathi, Rajarajeshwari and Nayandahalli Stations.

Road Widening Works: Road Widening works of viaduct from Nayandahalli to Rajarajeshwarinagar both sides have been completed. In the Jnanabharathi and Pattanagere stations service road works were completed. About 2.75 km out of 4.15 km Road Restored on the LHS and RHS side, wherever viaduct installation done. Balance works is in progress.
**Progress achieved for Viaduct, Four Stations & Off Road Structures are as follows:**

**Viaduct**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope</th>
<th>Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilling</td>
<td>596</td>
<td>596</td>
</tr>
<tr>
<td>Pile Cap</td>
<td>142</td>
<td>142</td>
</tr>
<tr>
<td>Pier</td>
<td>142</td>
<td>142</td>
</tr>
<tr>
<td>Pier cap/Arms</td>
<td>127</td>
<td>127</td>
</tr>
<tr>
<td>Portal Beams</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Crash Barriers</td>
<td>142</td>
<td>142</td>
</tr>
<tr>
<td>Median (Spans)</td>
<td>126</td>
<td>105</td>
</tr>
<tr>
<td>Segment Casting</td>
<td>1171</td>
<td>1171</td>
</tr>
<tr>
<td>Segment Erection (Spans)</td>
<td>131</td>
<td>128</td>
</tr>
<tr>
<td>Parapet Casting</td>
<td>2422</td>
<td>2017</td>
</tr>
<tr>
<td>Parapet Erection (Spans)</td>
<td>139</td>
<td>68</td>
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<tr>
<td>Transition slabs</td>
<td>8</td>
<td>5</td>
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</table>

**Off Road Structures**

<table>
<thead>
<tr>
<th>Location</th>
<th>Small Pile cap 155 Nos</th>
<th>Plinth Beam 2066 Rm</th>
<th>Culum at Deck Level 287 No's</th>
<th>Slab at Deck Level 24 Spans</th>
<th>Escalator Pit, Cum 223 Cum</th>
<th>Slabs at Concours Level 24 Spans</th>
<th>Terrace slab (23 Spans)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nayandahalli</td>
<td>42</td>
<td>525</td>
<td>53</td>
<td>4</td>
<td>13</td>
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<td>20</td>
<td>2</td>
<td>13</td>
<td>1</td>
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<tr>
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<td>27</td>
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<td>27</td>
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<td>22</td>
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</table>

**Main Stations**

<table>
<thead>
<tr>
<th>Location</th>
<th>Column at Concours Level &amp; Platform Level 135 No's</th>
<th>Portal Beams 44 No's</th>
<th>Slab at Concours Level 32 No's</th>
<th>Slab at Track Level 32 No's</th>
<th>Slab at Platform Level 64 No's</th>
<th>I-Girder Erection 609 No's</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nayandahalli</td>
<td>33</td>
<td>11</td>
<td>8</td>
<td>8</td>
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<td>160</td>
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<tr>
<td>Rajarajeshwari</td>
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<td>11</td>
<td>8</td>
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<td>160</td>
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<td>Jnanabharathi</td>
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<td>11</td>
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<td>8</td>
<td>16</td>
<td>125</td>
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<td>Pattanagere</td>
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<td>12</td>
<td>8</td>
<td>7</td>
<td>7</td>
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</table>

**Rajarajeshwari Station: View showing the erection of Steel Roof Structures over platform**

**View of Parapet Erection on the Viaduct between Rajarajeshwari & Jnanabharathi Station**
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 almost complete and the land is in position with BMRCL. From Kengeri Arch Bridge to Challaghatta Depot, the final notification for acquisition has been issued. Valuation of properties is completed.

Shifting of Water Supply Lines & Underground Drainage Lines:- Work is completed up to NICE Road and from NICE Road the work will commence after acquisition of properties if any water supply and Underground Drainage Lines are infringing with the alignment.

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. 48% of Physical progress has been achieved.

Test Pile :- Two numbers of Initial Vertical Pile Load test is completed at the Viaduct. Barricading work is in progress. Working Pile, Pile Cap, Pier, Pier Cap, Portal Pier:- All the works are in progress.

Mailasandra & Kengeri Station:- All works are in progress.

Casting Yard at Kanminike near Bidadi:- Segments, I-Girders and Parapet casting works are in progress.
REACH-3 Extension - Reach-3C: - Extension line of Reach-3b of Phase-1 on Northern Corridor from Hessaraghatta Cross to Bangalore International Exhibition Centre (BIEC) viz Manjunathnagar Stn., Jindal Stn., & BIEC Stn. The section length is 3.03 Kms with 3 Stations and fully Elevated Section.

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

Total Cost of the Project: - Rs. 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. 44 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 31 properties have been demolished.

Viaduct & Stations (including Road Widening works): - Issue of GFC drawings is in progress from the Design wing of BMRCL. The permission for use of NHAI service road/ROW for construction of viaduct and stations of Bangalore Metro Rail is obtained from NHAI and Memorandum of Understanding has been signed on 09.04.2018. Notice to proceed to start the work has been issued on 27.04.2017 with M/s. Simplex Infrastructures Limited. Development of casting yard is under progress.

Project office of M/s Simplex is ready at casting yard. Quality lab set up and calibration of lab equipment's completed. 2 Batching Plants (capacity 45cum/Hr & 30cum/Hr and Two sets of 15MT gantry and 80MT gantry are commissioned at Casting Yard. Three casting beds (28m long) for segment casting commissioned. Three complete set of intermediate segment shutters & pier head segment shutters for 28m span are available at casting yard. 1 mock up segment and 282 precast segments are casted till date. 3 No's of I Girder (Post tensioned) completed till date and Pretensioned I Girder bed arrangements are under progress. 1 mock up parapet and 51 Parapets casted till date. Construction of drain at station & viaduct portion is in progress. Construction of Drain of length 1400m is completed. 5 no. of Test piles and 4 No’s of Initial vertical pile load tests (IVLT) & 1 no of Initial lateral pile load test (ILHT) is completed till date. 2 Routine Pile load tests at station, 2 at Viaduct, 1 Dynamic Pile Load test at Station and 1 at Viaduct are completed till date. 225 working piles (1200mm) of viaduct are casted as on November’18. 50 main piles of 1200mm, 11 Off Road Piles of 1200mm and 93 Off Road piles of 600mm have been completed in Manjunathnagar Station as on November’18. 56 Main Piles of 1200mm, 17 Nos of Off Road Piles of 1200mm and 46 off road piles of 600mm have been completed in Jindal Station as on November’18. 36 Pile Caps of Viaduct are casted as on November’18. 7 Main Pile caps and 6 off-road Pile Caps of Manjunathnagar Station and 7 main Pile Caps at Jindal Station are completed as on November’18. 23 Pier & Pier Caps of Viaduct are completed as on November’18. 7 Piers up to Concourse level (CCL) at Manjunathnagar Station and 4 no’s at Jindal Station are completed as on November’18. 1 Pier Arm at Concourse level (CCL) for Jindal Station is completed as on November’18. 17 nos. of Borehole for soil investigation is complete as on date.
**REACH WISE PROGRESS OF WORKS OF PHASE-2**

**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, Vajrahalli 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, Parapet erection etc. are in progress along Viaduct.

- All major works like Piling, Pile caps, Piers, Pier arms, I-Girder erection, Concourse slabs, Track level slabs, Platform slabs, Bearing installation etc. are completed at 3 Stations viz. Anjanapura Road Cross Station, Krishna Leela Park Station and Vajrahalli Station. These works are in progress at Talaghattapura Station and Anjanapura Township Station.

- 973 nos of Piles out of 1032 piles are completed for Viaduct structures. 717 nos of Piles out of 754 Nos of Piles are completed for Station locations.

- 195 nos of Pile caps out of 223 nos are completed for Viaduct structures. 257 nos of Pile caps are completed out of 296 nos for open foundations for off-road structures at Station locations.

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

- 189 nos of Piers are completed out of 223 nos for Viaduct structures & 50 Nos of Piers upto Concourse Level out of 50 nos are completed at Station locations.

- 49 nos. of Pier Arms for Concourse level out of 50 nos are completed at Station locations. 49 nos. of Piers above Concourse level out of 50 nos are completed at Station locations. 48 nos. of Pier Arms for Track level out of 50 nos are completed at Station locations. 41 nos of Concourse slabs are completed out of 45 nos at Station locations. 39 nos of Track level slabs are completed out of 45 nos at Station locations. 76 nos of Platform level slabs are completed out of 90 nos 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 53 Segmental Spans are erected from EP-128 to EP-182.</td>
<td>Anjanapura Road Cross Station I-Girder erection has been completed.</td>
</tr>
<tr>
<td>2</td>
<td>LG-02 42 Segmental Spans are erected from EP-183 to EP-225.</td>
<td>Vajrahalli Station: I-Girder erection has been completed.</td>
</tr>
<tr>
<td>3</td>
<td>LG-03 32 Segmental Spans are erected from EP-226 to EP-258.</td>
<td>Krishna Leela Park Station I-Girder erection has been completed.</td>
</tr>
<tr>
<td>4</td>
<td>LG-04 19 Segmental Span is erected from EP 277 to EP 299.</td>
<td>Talaghattapura Station: I-Girder Erection is completed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anjanapura Township Station: I-Girder Erection 75 nos is completed out of 121 nos.</td>
</tr>
</tbody>
</table>
Casting Yard: NCCL has set up their Casting Yard on 20 Acres of land near Agara Cross (near Tataguni Village), 4km away from EP346 (last pier of R4B Project)

The following activities are in progress at the Casting Yard:

- 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 1840 nos are completed out of 1998 numbers.
Casting of Pre-Tensioned I-Girders of 425 nos are completed out of 425 numbers.
Casting of Post-Tensioned I-Girders of 240 numbers out of 240 numbers are completed.
Casting of Parapets of 2239 numbers out of 4094 numbers are completed.

Parapet Erection:


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 R V Road to Bommasandra is completed.

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 RV Road 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 RV Road and Bommasandra 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. Foundation and substructure work has been commenced for viaduct sections, EC-1 station, EC-2 station, Hebbagodi, Bommasandra stations. The drain work, viaduct and station construction is in progress wherever available land stretches.

- 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. Foundation and substructure work has been commenced for HSR Layout, Oxford College, Muneshwaranagar, Chikkabegur, Basapura, Hosa Road stations and viaduct sections. Superstructure work in station and Viaduct is in progress. The drain work, viaduct and station construction is in progress in available land stretches. Segment casting works is in progress, Parapet segment casting and Girder casting for station has begun in casting Yard. Erection of pier arm at Station is in progress.

- 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 RV Road of 6.34Km length is awarded. The casting yard work is nearing completion at Hommadevanahalli on Banneraghatta Road. Road widening work in the stretch between RV Road to Jayadeva Hospital is completed and for balance stretch between Jayadeva and HSR Layout is in progress. Tree Transplantation work is in progress. Piling work in BTM, Ragigudda and RV road station is in progress. Segment casting for Road works has started in casting yard. Road segment casting work is in progress.
RANGOLI METRO ART CENTER

HIGHLIGHTS

NOVEMBER 2018

Kannada Rajyotsava Celebrations
Karnataka Kala Sambrama 2018
Painting Exhibition & Sale, Beedhi Natvana,
Live Sculpture, Live Photography,
FolkDance & FolkSongs
with Art Matters & Kalidarpadma
4 Nov 2018 @ 10am to 7.30pm

GALLERY’S

THE PERSISTENCE OF MEMORY
Art Exhibition
by Anjaneeyulu C, Madhubabu S,
Ranganadh K, Siva kumar A & Sijna VV
9 to 11 Nov 2018 @ 10am to 7.30pm

STORY BEYOND COLOURS
Art Exhibition
by Artistic Hue Art Classes
16 to 18 Nov 2018 @ 11am to 7.30pm

ARTSY TALES
Photographs Exhibition
by Mala Chandrashekar, Sampathri Karthik,
Sajeev Radhakrishnan & Sudarshan Ramesh
23 to 25 Nov 2018 @ 11am to 7.30pm

RANGASTHALA

JAGULI SAALU
KANNADA OPEN MIC
by Kahade
10 Nov 2018 @ 11am to 2pm

TARANG 2018
AN ENSEMBLE OF COLOURS
by Tarang
25 Nov 2018 @ 9.30am to 1.30pm

NAMMOORA KATEGALU
THE BEST STORIES FROM
OUR LAND YELLAMMA
AND OTHER STORIES
by Bangalore Storytelling Society
17 & 18 Nov 2018 @ 6.30 to 8pm

SPEAKING TO ELEPHANTS
SCIENCE OF INTER SPECIES
TELEPHATIC COMMUNICATION
by Friends of Elephants
25 Nov 2018 @ 6.30 to 9pm

BAYALU

COMMUNITY DRUMJAM - 69
by Robert Narain & Vasundhara Das
18 Nov 2018 @ 4 to 6pm

VILLAGE GAMES
Every Saturday & Sunday

UPPER WALKWAY
Busking
Every Sunday