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E-News Letter for BMRC Website only
https://english.bmrc.co.in/News/NewsSection

Shri Durga Shanker Mishra, IAS
Secretary, MoHUA, GoI
& Chairman, BMRCL

Shri Ajay Seth, IAS
Managing Director
BMRCL

Address:
Bangalore Metro Rail Corporation Limited,
3rd Floor, BMTC Complex, K H Road,
Shantinagar, Bengaluru - 560 027
### Land Acquisition Status as on 30th September 2019 of Phase-2, ORR -2A & Airport -2B Line

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Reaches</th>
<th>No. of properties Required</th>
<th>No. of properties Acquired [As per 28(4) &amp; 3(1)]</th>
<th>Handed over to Eng. Section up to September - 2019</th>
<th>Balance to be Handed over to Eng. Section.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reach-1 Extn</td>
<td>38</td>
<td>479</td>
<td>517</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>White Field Depot</td>
<td>21</td>
<td>0</td>
<td>21</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Reach-2 Extn Station and Viaduct</td>
<td>25</td>
<td>97</td>
<td>122</td>
<td>25</td>
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<tr>
<td></td>
<td>Challaghatta Depot</td>
<td>10</td>
<td>24</td>
<td>34</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Reach-3C Extn</td>
<td>3</td>
<td>108</td>
<td>111</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Reach-4B Extn.</td>
<td>12</td>
<td>294</td>
<td>306</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Anjanapura Depot</td>
<td>1</td>
<td>20</td>
<td>21</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>Reach-5 New Line</td>
<td>46</td>
<td>797</td>
<td>843</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>Hebbagodi Depot</td>
<td>1</td>
<td>57</td>
<td>58</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Reach-6 (Elevated)</td>
<td>34</td>
<td>374</td>
<td>408</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Reach - 6 (UG)</td>
<td>52</td>
<td>289</td>
<td>341</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>Kothnur Depot</td>
<td>4</td>
<td>64</td>
<td>68</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>247</td>
<td>2603</td>
<td>2850</td>
<td>224</td>
</tr>
<tr>
<td>7</td>
<td>ORR Line (2A)</td>
<td>30</td>
<td>55</td>
<td>85</td>
<td>29</td>
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<tr>
<td>8</td>
<td>Airport line (2B)</td>
<td>44</td>
<td>245</td>
<td>289</td>
<td>0</td>
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<tr>
<td></td>
<td>Total</td>
<td>74</td>
<td>300</td>
<td>374</td>
<td>29</td>
</tr>
</tbody>
</table>

#### Critical issues faced regarding Land Acquisition for Phase-2 of the project

**NICE Land:** Hon’ble High Court of Karnataka has stayed proceedings of acquisition of NICE Lands in respect of Reach-5. Efforts are being made to get the stay vacated. In respect of lands required for Reach-2, 3 and 4, SLAO, KIADB has to determine the compensation to be paid.

**Forest Lands:** Proposal for diversion of 18.11 ha in the Sy. No.1 of Kadugodi plantation is submitted to regional office, Ministry of Environment and Forests, Government of India. The request for Stage-II clearance submitted by the State Government has been returned on the ground that the compensatory afforestation land has to be declared as Reserved Forest/Protected Forest before stage-II clearance. The State Government has directed Forest Department to provide working permission pending stage-II clearance. The working permission is still awaited.
Critical issues faced regarding Land Acquisition for Phase-2 of the project

U.M. Kaval:- Stage-I approval for diversion of 0.71 ha of Forest land in Sy. No. 38 of U.M. Kaval has been communicated. Forest Department has been requested to process for Stage-II clearance. The working permission from the Forest Department is awaited.

Reach-6 Underground Section

Langford Town Station:- The Board of Officers (BOO) has been constituted by Local Military Authority (LMA) and the land required for Langford Station is 2137.334 sqm on permanent basis and 5866.569 sqm on temporary basis. Final Board of Officers BOO proceedings are yet to be signed.

Church Land for Vellara Junction Station:- The acquisition process for balance land measuring 3797.271 sqm on permanent basis is in progress (originally it was proposed for temporary acquisition) through KIADB. Local Military Authority (LMA) now claim this entire land to be Defence land and have also raised objection for the compensation paid to Church for the land earlier acquired.

BBMP land for Shivajinagar Station:- Twenty two temporary shops have been constructed by BMRCL for shifting of the occupants from the existing shops. The old shops will be demolished once the temporary shops are handed over to the occupants by BBMP.

Eidgah-e-Jaded land for launching Shaft:- Wakf Board has been requested to hand over the land to BMRCL after vacating the school building by providing them alternative accommodation and vacating the shops by payment of Resettlement & Rehabilitation (R&R) benefits as per BMRCL norms.

BBMP land for Cantonment Station:- An Industrial Training Institute for differently abled children is constructed on BBMP land. The building was constructed to run the Industrial Training Institute. There is a dispute regarding payment of compensation for the building between Church Authority and an NGO which was running the institute. Compensation will be paid after ascertaining the details about which of the two i.e., Church / NGO has constructed the building.
For Phase-2 of the Project a total of 684 Nos of trees has to be cut out of which 222 trees are Schedule B trees that does not require permission. As on date total of 577 Nos of trees are transplanted and 107 Nos of trees are cut out of 684 Nos. On behalf of BMRCL, BBMP in coordination with the Forest Department has planted 8000 Nos of saplings. For this BMRCL has deposited an amount of ₹ 63.37 Lakhs to BBMP.

As per the direction of Honorable High Court, Government of Karnataka has formed the Tree Expert Committee on 01.08.2019 with reference to Tree Felling, Transplantation and Replanting of tree as a compensation under Tree preservation Act 1976 for the Trees affected by proposed BMRCL Metro Rail Project.

BMRCL has filed an application with the Tree Officer to clear the following Trees of Line 6 Underground Station and Ramp. The application is placed before the Tree Expert Committee for Opinion and approval is sought from the Committee.

### Tree Transplantation & Felling Status

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Metro Station Work</th>
<th>South Sub Division-Location</th>
<th>No. of Trees</th>
<th>Transplanting trees</th>
<th>Trees to be cut</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>South Ramp Work &amp; Road diversion work</td>
<td>Jayanagara Fire Station</td>
<td>29</td>
<td>9</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Karmikara Bhavana &amp; Dharmaram College Bannerghatta Main Road</td>
<td>27</td>
<td>8</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Karmikara Bhavana &amp; Dharmaram College</td>
<td>12</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West side of Footpath, Bannerghatta Main Road</td>
<td>36</td>
<td>5</td>
<td>31</td>
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<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>104</strong></td>
<td><strong>23</strong></td>
<td><strong>81</strong></td>
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<tr>
<td>2</td>
<td>Vellara Station</td>
<td>Rashtriya Military School</td>
<td>35</td>
<td>-</td>
<td>35</td>
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<tr>
<td></td>
<td></td>
<td>Vellara junction Road side</td>
<td>7</td>
<td>-</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>42</strong></td>
<td>-</td>
<td><strong>42</strong></td>
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### Tree Transplantation & Felling Status

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Metro Station Work</th>
<th>East Sub Division-Location</th>
<th>No. of Trees</th>
<th>Transplanting trees</th>
<th>Trees to be cut</th>
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<tbody>
<tr>
<td>1</td>
<td>MG Road Station</td>
<td>MG Road-Kamaraj Road</td>
<td>84</td>
<td>09</td>
<td>73</td>
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<tr>
<td>2</td>
<td>Shivaji Nagar Station</td>
<td>Shivajinagar Ground area</td>
<td>13</td>
<td>04</td>
<td>09</td>
</tr>
<tr>
<td>3</td>
<td>Cantonment Station</td>
<td>Deaf Training Centre &amp; Ground area</td>
<td>57</td>
<td>18</td>
<td>39</td>
</tr>
<tr>
<td>4</td>
<td>Pottery Station</td>
<td>Triangular Park area &amp; Abandoned Maternity home surrounding</td>
<td>24</td>
<td>03</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>178</strong></td>
<td><strong>34</strong></td>
<td><strong>142</strong></td>
</tr>
</tbody>
</table>
Reach-1A (Baiyappanahalli to Visvesvaraya Industrial Area Station):- 11 KV BESCOM lines, Lamp Poles and Light Poles shifting works are in progress.

Reach-1B (Visvesvaraya Industrial Area to Whitefield):- In respect of 220 KV and 66 KV conversion from Overhead to Under ground is completed. Removal of HT lines and Tower dismantling is completed. At Satya Sai Station 66KV Underground cables diversion work is completed. Uncharted Underground cables, diversion works are in progress. Tender has been awarded for removal of old street light poles and erection of new poles including connecting and fitting works and the works are in progress.

Reach-2B (Pattanagere Station to Challaghatta Depot):- Work has been completed up to NICE Road. From NICE Road the work will commence after acquisition of properties.

Reach-3C (Hessaraghatta Cross to Bangalore International Exhibition Centre (BIEC)): BWSSB, North Division-1 has informed that, there are no utilities of water supply and Underground Drainage Lines between Manjunathnagar and BIEC section vide BWSSB letter dated 17.05.2016. However, cross trenching works is being carried out to confirm that, there is no other utilities in the working area before taking up the piling works.

Phase-2 Progress at a glance:

**Phase-2 Civil Works Progress in Percentage**

- REACH-1A (Baiyappanahalli to Visvesvaraya Industrial Area): 46%
- REACH-1B (Visvesvaraya Industrial Area to Whitefield): 60%
- REACH-2A (Mysuru Road to Pattanagere): 93%
- REACH-2B (Pattanagere to Challaghatta Depot): 73%
- REACH-3C (Hessaraghatta Cross to Bangalore International Exhibition Center): 42%
- REACH-4B (Puttenahalli Cross to Anjapurapura Township): 84%
- REACH-5-P1 (Bommasandra to Hosur Road): 53%
- REACH-5-P2 (Hosur Road to HSR Layout): 59%
- REACH-5-P3 (HSR Layout to R V Road): 29%
- REACH-6-ELEV (Gottigere to Swagath Cross Road): 18%
Phase-2 Progress Photos at a glance:

R-1A: KR Puram Station work is in progress

R-1B: Kundanahalli Station staging work in progress

R-2A: Nayandahalli Station Structural Steel erection in progress

R-2B: Top view of Mailasandra Station

R-3C: Parapet Launching work in progress

R-4B: Vajarahalli Station Granite Flooring work in progress at Concourse Level
Phase-2 Progress Photos at a glance:

R-4B: Doddakallasnadra Station Roof Sheeting work in progress

R-5-P1: Hebbagodi Station Ariel view

R-5-P2: Beratena Agrahara Station Concourse Level slab staging work in progress

R-5-P3: Road & Rail Pier & Piercap concrete work completed

R-6-Ele: J P Nagar 4th Phase Station work in progress

R-6-UG: Piling work in progress at Shivajinagar Station
Phase 2 Progress Photos at a glance:

R-6-UG: Segment Lifter with Vacuum Lifter

R-6-UG: Piling in progress at MG Road Station

Phase 2 Track Progress at a glance:

Contractor - M/s Texmaco Rail & Engineering Limited

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Item Description</th>
<th>Unit</th>
<th>Track Plinth Casting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sections</td>
<td></td>
<td>Reach 4</td>
</tr>
<tr>
<td>1</td>
<td>Scope of Work</td>
<td>Trm</td>
<td>12580</td>
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<tr>
<td>2</td>
<td>Progress for the Month (September - 2019)</td>
<td>Trm</td>
<td>1665</td>
</tr>
<tr>
<td>3</td>
<td>Cumulative progress upto (September - 2019)</td>
<td>Trm</td>
<td>8299</td>
</tr>
</tbody>
</table>
Operational High Lights September 2019

Operational efficiency achieved in the month : 99.98%
Ridership for the month : 1,19,16,426
Revenue earned during the month : ₹ 31,53,30,704/

% Contribution of Smart Cards, Tokens and Group Ticket for the month for Phase-1
Smart Cards : 62.12%
Smart Tokens : 37.80% Group Ticket : 0.08%

Implementing PAYTM at BMRCL

With online based visual validation system, every transaction can be validated in real time basis on the POS given by PAYTM to TOM operators at specified counters of BMRCL stations for recharge and sale of Smart cards only. The basic overview all flow is as below.

Detailed Flow with Actual screens At:

Step-6: The TOM operator will issue the ticket / recharge the card once he receives and checks the PRN of the transaction on the POS given by PAYTM.

Some of the major advantages are as below:

Security:-The most significant advantage provided by PRN validation is that, in distinction with offline validation, they are not susceptible to replay attacks. This means a prospective intruder who deals with PRN that was already used to log in to a service or to perform a transaction will not be able to misuse it, as it will not be more suitable. Another advantage is that a user, who uses the same password for multiple systems, is not made susceptible on all of them, if the password for one of these is gained by an intruder. A number of PRN systems also target to make sure that a session cannot simply be intercepted or taken off without knowledge of random data created during the earlier session, thus decreasing the attack surface.

Transit time & Time efficiency:- PRN Validation is comparatively less time consuming as validation happens instantaneously without any delay. The transaction time is drastically reduced than that of CARD transaction at the POS. The transaction turnaround time for PRN validation is less than 10 seconds.

Convenience:- Mobile based instant payment solution eases the TOM operator flow and also is of great convenience to the customer. As the digital payment push and acceptance has grown over the period it would be easy for both customers as well as the service provider- BMRCL. It reduces the physical money movement/handling and enables direct account transfers and timely reconciliations and settlements.
RANGOLI METRO ART CENTER
HIGHLIGHTS

SEPTEMBER 2019

GALLERIES
SRSHTI COLLECTIVE 2019
Under Graduate Thesis Project
Exhibitions
By Srishti Institute of Art, Design & Technology
5 to 7 Sept 2019 @ 11am to 7:30pm

RANGASTHALA
UNSCRIPTED INTERACTIVE
LIVE COMEDY SHOW
(Teacher's Day Special)
By Indian Improv Tribe
1 Sept 2019 @ 6:30pm

MIRROR MIRROR ON THE WALL
By Meera Verkhotukha & Janavi Amrith
7 Sept 2019 @ 5 to 7pm

KAHALE KATTE 5.0
By Yathashree
14 Sept 2019 @ 10:30am

MALGUDI SEASON 2
By Annapurna
14 Sept 2019 @ 01 to 7:30pm

GAINFULLY EMPLOYED
A Standup Comedy Show
By Punit Pansy
21 Sept 2019 @ 7pm

THE HEART OF BANGALORE!
By Theatricians at the Theatre
22 Sept 2019 @ 11am to 4pm

THE GHOST WEDDING
By VPYeatures Theatre Group
28 Sept 2019 @ 6:30pm

HEADS & TALES
By Bangalore Storytelling Society
29 Sept 2019 @ 4:30 to 5:30pm

CHATTISGARH ELEPHANTS
(Conservation of Elephants & Other Wildlife in the Land of the Forts)
By Friends of Elephants
29 Sept 2019 @ 6:30pm

BAYALU
COMMUNITY DRUMJAM 79
By Vasantdada Sam & Roberto Hansen
15 Sept 2019 @ 3 to 6pm

NAGARPETE
SRSHTI COLLECTIVE 2019
Under Graduate Thesis Project
Exhibitions
By Srishti Institute of Art, Design & Technology
5 to 7 Sept 2019 @ 11am to 7:30pm

VILLAGE GAMES
Every Saturday & Sunday

GLOBAL CLIMATE STRIKE
LED BY 13-YEAR-OLD YATHARTH HIRWANI
27TH SEPT.
BANGALORE

COMMUNITY DRUMJAM 79
By Vasantdada Sam & Roberto Hansen
18 Sep 2019 at 10am to 1pm

NAGARPETE

SRSHTI COLLECTIVE 2019
Under Graduate Thesis Project
Exhibitions
By Srishti Institute of Art, Design & Technology
5 to 7 Sept 2019 @ 11am to 7:30pm

ANNOUNCEMENT
A new exhibition by Srishti Institute of Art, Design & Technology
5 to 7 Sept 2019 @ 11am to 7:30pm

VILLAGE GAMES
Every Saturday & Sunday

Published for the month of September 2019