



SAMPARKA

The BSRP Newsletter...

House Journal of K-RIDE

Issue: 03

February -2024



Separate Agreement signing ceremony between K-RIDE & KfW Development Bank



Dr. M. B. Patil, Minister for Commerce & Industries, Infrastructure, Government of Karnataka graced the signing ceremony of the Separate Agreement between K-RIDE & KfW Development Bank, at Bengaluru, on 09.02.2024. Shri. Rakesh Singh, Additional Chief Secretary, Urban Development Department, Dr. N. Manjula, Secretary, Infrastructure Development Department & MD, K-RIDE, Mr. Wolf Muth, Country Director, KfW Development Bank, India, Ms. Swati Khanna, Senior Specialist, Urban & Mobility, KfW Development Bank, India, Mr. Achim Burkart, Consul General, Consulate General of the Federal Republic of Germany at Bengaluru & Ms. Kanchi Arora, Sr. Advisor, German Consulate in Bengaluru were also present at the event.

Shri. Rajneesh Goyal, IAS, Chief Secretary, presents SAMPARKA-the BSRP newsletter to KfW officials



Shri. Rajneesh Goyal, IAS, Chief Secretary, Government of Karnataka, presented 'SAMPARKA'- the BSRP newsletter to Mr. Wolf Muth, Country Director, KfW Development Bank & Mr. Achim Burkart, Consul General, Consulate General of the Federal Republic of Germany on 09.02.2024. Dr. N Manjula, IAS, Secretary, IDD & MD, K-RIDE, KfW officials and senior officers from K-RIDE were present.

Minister interacts with Media Journalists



Dr. M. B. Patil, Minister for Commerce & Industries, Infrastructure, Government of Karnataka addressed the media on sidelines of signing ceremony of the Separate Agreement for facilitating the loan for Bengaluru Suburban Rail Project (BSRP) between K-RIDE & KfW Development Bank, at Bengaluru, on 09.02.2024.



Dr. N. Manjula, MD, K-RIDE, Chairs Review Meeting of BSRP



A review meeting on the land acquisition issues of BSRP was held on 5th January 2024 under the chairmanship of Dr. N. Manjula, MD, K-RIDE & Secretary, IDD, GoK. BBMP roads in railway land at Kammanahalli, Shampura, Govindapura and Akkupete depot land issues etc were discussed. Senior officials of K-RIDE, BBMP, KIADB, forest department were present.

Dr. N. Manjula, N, MD, K-RIDE held a review meeting of corridor-2 of BSRP at K-RIDE corporate office, on 6th & 7th January 2023. Critical discussions were held regarding infringement issues like BBMP roads, transformers, sewer, electrical line, waterline, GAIL pipe line clearances, BDA buildings, private land and necessary permission for tree cutting etc were discussed. Senior officials of K-RIDE, General consultants, officials from L&T were present.

MD Corner



Dr. N. Manjula, IAS
MD, K-RIDE & Secretary, IDD,
Government of Karnataka

Greetings....!

Fully realising that BSRP is a multi-stakeholder project, periodic review meetings are being held, many bottlenecks in cases of land acquisition, forest land, work front availability etc are being resolved. With respect to current project updates: Corridor 1: Alignment approval is in progress with SWR. Corridor-2: Tender awarded, civil work is progressing well and 19% physical progress has been achieved. Corridor-3: Alignment from Kengeri to Bengaluru cantonment is under finalisation; Corridor-4: Alignment has been approved by SWR. Kilometre-wise land plan has been submitted for approval; Resource mobilisation is underway and physical work by the contractor will begin soon. Compensation & Resettlement (C&R) policy has been approved by Govt. of Karnataka on 31.10.2023.

In a major milestone, K-RIDE has signed a separate agreement with KfW Development Bank in the presence of Dr. M.B. Patil, Hon'ble Minister for Commerce & Industries, Infrastructure, Government of Karnataka recently. It is supplementary to the main loan agreement signed between

KfW Development Bank & Department of Economic Affairs, Ministry of Finance, at New Delhi on 15th December 2023 for ₹ 4561 Crore (Euro 500 million) and a grant for ₹36.75 Crore (Euro 4.5 million). This loan amount of ₹ 4561 Crore will be used for the works of Corridor-3 Station & Viaduct, Corridor-4 Station work, Depot-1 (Devanahalli), S&T, PSD, AFC, Solar Panel and Security Equipment, MMI.

BSRP has been planned with state-of-the-art rolling stock specifications. With Communication Based Train Control, BSRP is designed to operate train services upto every 90 seconds. Provision of Infrastructure for Electric Vehicle Charging in all the station premises is also planned. The project team, which is extremely dedicated and hardworking, is progressing rapidly in implementing the BSRP project. We will soon gain full speed of construction necessary for timely completion of this much-awaited project. *Let's accomplish it together!*

What's in a Name ?

The 4 BSRP corridors are named after 4 regional flowers.



And we called it
SA-M-PAR-KA
Meaning 'Connectivity' in Kannada



PERISCOPE

An Exclusive Interview

Shri. Rajesh Kumar Singh, IRSE

Director, Project and Planning, K-RIDE

BSRP is being led by Shri. R.K Singh, an officer of the 1996 Batch of Indian Railway Service of Engineers as Director, Project and Planning, K-RIDE. He has over 26 years of railway expertise and has played an important role in the success of numerous railway projects in Karnataka, including project planning, budgeting, railway track and bridge maintenance, estimation and design of buildings/structures and the execution process, among other things. His previous significant assignment while as Chief Engineer/Construction includes prestigious Sir MV Terminal, Bengaluru. It is India's first Air-Conditioned Railway Station. He has expertise of maintenance and technical improvement of Castlerock-Qulem ghat section of SWR, one of the toughest Railway alignments in IR. He was also instrumental in planning and execution of Commuters Terminal at Bangalore Cantonment, Yard re-modelling of KSR Bangalore City station, Quadrupling of Railway track between Bangalore Cantonment and Whitefield.

This issue of SAMPARKA, brings you an exclusive interview with Shri. Rajesh Kumar Singh, Director, Project and Planning who shares his vision, ideas, and unique thinking concerning the Bengaluru Suburban Rail Project (BSRP).

1. The Bengaluru Suburban Rail Project has made significant progress from the date of its foundation stone laying in June 2022. What is the current status of each corridor of BSRP?

The Bengaluru Suburban Rail Project has made substantial progress in the last few months. In this regard, talking about status updates of each corridor of the BSRP, the works in Priority Corridors, i.e. Corridors 2 and 4, have started. In Corridor-2 the Construction of viaduct and at grade works from Chikkabanawara to Baiyyapanahalli (25.42 km) is progressing well and achieved 19% physical progress and tender for construction of civil works for Corridor-4 from Heelalige to Rajanukunte (46.24 km) was awarded on 30.12.23. Preconstruction activities have started at site. Tender for civil works from Bengaluru City to Yelahanka of Corridor-1, station building is funded through loan amount and will be invited shortly after receiving "No objection" from funding agency. Also shifting of electrical and S&T utilities, and miscellaneous works are in progress. The funding from the loan amount will facilitate to initiate the tendering process of Corridor-1, Corridor-3, Signalling, telecom, traction, power supply, track etc. for implementation.

2. What is the progress made in corridor-2 and what is the deadline of BSRP, Mallige line? What is the total workforce strength presently on the ground?

The Civil works tender for corridor-2 Baiyyapanahalli- Chikkabanavara was awarded to M/s L&T on 26.8. 2022. Corridor is 25Km long consists of 8.027 Km of elevated sections and 17. 551Km of at-grade section. The construction work has commenced at multiple locations (at present more than 40 work fronts) along the corridor. In corridor 2, priority has been given to the Banaswadi-Hebbal section where 6 level crossings are planned to be eliminated by raising of formation. At present, more than 500 workforce, excluding supervisors and engineers are working at site round the clock. In corridor 2, total physical progress is 19%. So far 135 piles have been completed near Hebbal & Yeshwantpura locations. Single span U girder of length 31 meters has been successfully cast at Devanahalli casting yard and already 8 U-girders concreting is completed. 1902m and 800 m ERS is currently under construction at different locations between Bansawadi to Hebbal and Yeshvanthpur to Chikkabanavara. 6 Road under bridges (RUB) and 12 Minor bridges construction is in progress. The progress is substantial as many activities are interlinked with other activities; In Corridor -2, a total of 421 pillars and 465 U-girder will be required. Besides Banaswadi-Hebbal section, Chikkabanawara to Yeshwantpura has been taken up as priority section.

3. Corridor -4 Kanaka line tender awarded to L&T. What is the present status and deadline of it?

K-RIDE awarded corridor-4 civil work contract to L&T on December 30, 2023 and pre-construction activities have started at site. The South Western Railway (SWR) has approved the suburban rail alignment on 23.12.2024 which will link Heelalige to Rajanukunte in the north Suburbs over 46.88Km consisting of 19 stations. Groundwork, however will take some more time because the railways are yet to handover required Railway land to K-RIDE. Corridor-4 is expected to complete by December 2026. Private and Govt land acquisition, Utility shifting (S&T electrical) works are also progressing well. Physical work at site can be seen by April 2024 end.

4. What is the specialty of BSRP in U girder installation?

It is an important milestone in construction of BSRP. 31 metre long, single span U-girder, has been successfully cast for the first time in the country for BSRP Project on 6th January 2024. The U- girder will be used on the 8KM elevated (viaduct) section between Hebbal and Yeshwanthpur on corridor 2 Mallige line. These U-girders are U-shaped, pre-tensioned, precast girders that allow track to be laid right away. One U girder is made of 69.5 cubic meters of M60 grade concrete , weighs 178 tonnes. Corridor 2 requires 450 such U-girders , 8 such U-girders concreting already completed. They are widely used in metro projects all over the world. So far 28-meter-long U-girder have been used in other metro.

5. What are the significant Milestones achieved by K-RIDE?

K-RIDE is committed to making the project a success and will ensure that all the objectives are met within the stipulated time frame. Currently, MD/KRIDE Dr. N. Manjula, IAS has taken a keen interest in the matter and has held several meetings with K-RIDE officials, General consultants, executing agencies, BBMP, KIADB, Forest department and other stakeholders to resolve the issues. She has also been closely monitoring the progress of the project. She has been taking proactive steps to ensure that the project is delivered on time and within budget. Also, tripartite agreement had been signed on 23rd November 2023 between Railway, GoK, and K-RIDE to formulate execution procedures and define responsibility. In a major milestone, K-RIDE inks loan agreement with KfW development bank on 15th December 2023, L&T has been issued the Letter of Acceptance (LOA) on 30th December 2023 and Hon'ble, Railway minister had a review of the BSRP project on 27th November 2023, and the Railway Board is constantly monitoring the project. Hon'ble IDD minister Dr. M.B. Patil, also reviewed the project. In addition to significant milestone the state government signed Memorandum of understanding (MoU) with KfW development Bank to for the execution of BSRP project on 09.02.2024. This Loan is aimed at addressing critical infrastructure needs. In addition, with EIB for 300 million euros loan, agreement is likely to be signed by the end of May 2024. In a nutshell – Work in both priority corridor is progressing well.

6. What is the timeline for the completion of the project?

As per the sanctioned letter the completion period is 6 years. Initially one year delay happened in resolving various issues with Railway Ministry and other stakeholders, as this is the first project in India sanctioned under New Suburban Railway Policy 2018. The project was sanctioned based on Detailed feasibility report and now all technical details has since been finalised. There was also delay because of the impact of second and third wave of Covid pandemic -2019 and delay in handing over Railway land. In-time delivery of the Rolling Stock will be deciding factor for commission of services. By considering these ,the project will be completed by December 2027.

Know Your BSRP

Novel Compensation & Resettlement package (CRP) for BSRP project

One Suburban Train to Connect all

New land Acquisition Act-2013 envisages for a comprehensive Rehabilitation & Resettlement package for the displacement of habitations and affected people. Their affected livelihood and inconveniences caused to them had to be recognized and for all such sufferings of the displaced people had to be mitigated with an effective Rehabilitation & Resettlement package. The land acquired by BSRP through KIADB for the project will not displace the inhabitants, generally, because the extent of land or building obtained will be in few feet or few meters. Only partial building or dwelling or commercial spaces or rental spaces have been purchased/planned to be acquired. To compensate for the inconvenience caused, K-RIDE has implemented a highly effective Compensation & Resettlement package (CRP) approved by the Government of Karnataka on October 31, 2013, to pay the persons affected from the project.

Salient features of C & R Policy:

- The government has approved K-RIDE's C&R Policy in accordance with the BMRCL C&R Package, which was approved by High Power Committee of Government headed by Chief secretary of the state.
- The C&R package is in addition to the compensation awarded by KIADB for land, since it is the acquiring agency for K-RIDE. C&R Package is an assistance paid prior to taking over of land and other assets for the purpose of project.
- Owner losing the building will be compensated from Rs. 25,000 to 45,000 depending on the area and also depends on residential/commercial.
- Inconvenience allowance one time payment- Rs. 70,000
- Transitional Allowance Rs 1,35,000 for upto 1000 sq.ft, Rs. 1,70,000 for 1001-1500 sq.ft and Rs 2,05,000 for > 1500sq.
- Residential Rental Income Allowance Rs 1,35,000 for upto 1000 sq.ft, Rs 1,70,000 for 1001-1500 sq.ft and Rs 2,05,000 for > 1500sq. Commercial Rental Income Allowance Rs 2,70,000 for upto 1000 sq.ft, Rs 3,40,000 for 1001-1500 sq.ft and Rs 4,00,000 for > 1500sq
- Business loss allowance Ranging from Rs. 85,000 to Rs. 2,25,000 for GST payers from Rs. 5000 PM to Rs.15000 and above, and also for NO GST business category Lum sum of Rs. 60,000

C&R Package covers the people who are living as tenants or undertaking any business activities partially both residential and commercial activities, such tenants also compensated with inconvenience allowances, shifting allowances and transitional allowances. Owner and Tenant compensation details are as follows.

Sl No	Items	Compensation Amount(in Rs)		
		Tenant-Commercial	Tenant-Residential	Tenant-Residential Cum Commercial
01.	Shifting Allowance	35,000	30,000	30,000
02.	Inconvenience Allowance- Family	00	70,000	70,000
03.	Inconvenience Allowance- Single	00	35,000	35,000
04.	Business loss Allowance-upto 5000 SGST payer	85,000	00	85,000
05.	Business loss Allowance-upto 5001-15000 SGST payer	1,70,000	00	1,70,000
06.	Business loss Allowance-upto >15000 SGST payer	225000	00	225000
07.	No SGST Payer	60000	00	60000
08.	Business Reestablishment Allowance,	Rs. 540 per sq Ft	00	Rs. 540 per sq Ft

- ❖ The land compensation paid to the land owners is free from taxes or any fees.
- ❖ Slum dwellers will be compensated with Rs 5,00,000 as housing support grant for acquiring their housing buildings in consultation with KSDB.
- ❖ Persons who fail to provide any documents for their residential/commercial buildings are classified as squatters, and they are entitled to Rs. 30,000-shifting allowance and Rs. 30,000-substance allowance for residential squatters, and Rs. 35,000-shifting allowance and Rs. 30,000-substance allowance, as well as Rs. 50,000 for business loss allowance, for commercial squatters.
- ❖ K-RIDE's C & R Policy also considers PAHs- project affected householders consists of families of SC & STs, widow, women and senior citizens entitled for 50,000 extra compensations.
- ❖ It is interesting to note that policy includes entrepreneurs who run businesses on public land without a land title, who are entitled to a compensation of Rs. 85,000 to protect their livelihood.

The K-RIDE project is acquiring land in all 4 proposed corridors, and the C-2 land acquisition is almost complete. 156 C&R beneficiaries have been identified, and some compensations have already been distributed.

Beneficiaries of C-4 land acquisition would total between 240 and 260.

K-RIDE C&R Policy is a unique compensatory policy that redresses all categories of affected individuals by providing suitable compensation and assisting them in re-establishing their affected livelihoods through monetary support. The C&R policy's proposed monetary compensation is actually quite encouraging, and people who are affected by the project are voluntarily coming and providing their agreement for the acquisition of the property for the project.

BSRP: Updates on Procurement of Rolling stock.



K-RIDE had invited the tender (RFQ) to procure Rolling stock for Bengaluru Suburban Rail Project on PPP (Public private partnership) mode on 08/06/2023. Based on defined technical eligibility, 3 bidders (CAF, BHEL, and BEML) qualified for participating in financial bid (RFP).

- Further K-RIDE has invited Request for Proposal (RFP/ Financial proposal) on 29.12.2023 to procure, operate and maintain Rolling stock for all the 4 corridors of BSRP.
- As part of the process, the bidders have sent queries regarding clarification on technical and general aspects in the tender. Further, pre-bid meeting was held on 30.01.2024 at K-RIDE corporate office to clarify the doubts of the bidders.
- Considering the complexity of the PPP model, bidders have requested for extension of bid due date by 3 months. Hence with approval from competent authority bid due date is extended till 27.05.2024. Further the clarification to queries and changes to tender documents to original clauses is published as corrigendum/addendum on KPPP site.

Doubling of Track Project : Work Progress

Yesvantapur- Channasandra (21.7Km)



To augment the capacity of the existing railway line between Yesvantapur - Hosur, Doubling Project of Yesvantapur – Channasandra (21.7 Km) was sanctioned by Railway Board in the financial year 2018-19 and was transferred to K-RIDE (Rail Infrastructure Development (Company) Karnataka Limited, a joint venture of Ministry of Railways and Government of Karnataka) for execution in June'2020 by Railway.

Out of total length of 21.7 Km, K-RIDE is executing works of 19.6 Km between Yesvantapur – Baiyyappanahalli 'A' panel whereas Construction organization of South Western Railway is executing almost 2.1 Km stretch from Channasandra to Baiyyappanahalli including yard works. Moreover, SWR is also carrying out elimination of Level crossing gates no. 148, 150, 152 by construction of Road Under Bridges.

The loading standard of the doubling track is 25t- 2008 loading standard. All the stations on the project are having STD III interlocking with panel and colour light multiple aspect signalling.

The project will be fully electrified with 25 KV overhead electrified traction. The sanctioned cost of the project is Rs. 314.11 crore and the project cost are shared by Ministry of Railways and Govt. of Karnataka on 50:50 share basis.



Year of Sanction	Nov-2018 (Transferred to KRIDE in June'2020)
Sanctioned Cost	Rs. 314.10 Cr.
Exp. up to March'23 (Cr)	Rs. 31.56 Cr.
Outlay 2023-24(Cr)	Rs. 85 Cr. (MoR)
Expenditure during 2023-24(Cr)	Rs. 25.38 Cr.

This project is passing through the heart of the Bengaluru City and includes stations of Hebbal, Banaswadi and further connects to Hosur. The early execution of this project is required to increase the mobility of the trains between Yesvantapur to Salem. It will help in reduction in road traffic congestion significantly as frequency of train services can be increased, which not only may save the time to the commuters but also generate revenue for the Indian Railways. The project is running almost parallel to BSRP Corridor 2. There are interface issues with BSRP and hence very close co-ordination is required with BSRP corridor 2 right from the planning stage which includes finalization of its alignment.

While approving the yard plans of this project, one additional line of approx. 2.3 Km from Yesvantapur Bypass to Lottegolahalli so as to have dedicated double lines for Yesvantapur – Yelahanka as well as Yesvantapur – Baiyyappanahalli, as required by SWR

Since the work is in city limits, lot of challenges are being faced during the execution of works like traffic restrictions during day time for bringing construction materials to work site, limited approach to doubling formation, existence of S&T cables, electrical cables, sewer lines/man holes of BBMP crossing through doubling formation etc. Moreover, lot of safety measures are to be taken during the work as the area is heavily built up and the railway land is also very limited. The existing road in some of the areas are in Railway land and is now required for construction of doubling track which is leading to confrontation with local public. Due to restricted railway land, lot of retaining walls are to be constructed. The aforesaid reasons are leading to relatively slow progress of work.

THE BLOCK SECTION WISE WORK PROGRESS IS MENTIONED BELOW:

1) Section YPR-YPR Bypass (2.8 Km)

- * Total scope of earthwork between is 80,000 cum out of which 38000 cum has been executed till end of February.
- * The execution of retaining wall b/w chainage 223/316 to 223/150 i.e.166 mtr has been completed. Further retaining wall work in progress b/w ch. 223/550 to 223/526

2) Section YPR bypass – HEB (5.3 Km)

- * Total scope of earthwork between the section is 36,000 cum. Out of the scope, 12,300 cum executed till the end of February
- * Total scope of Minor bridges is 22, and out of which 10 minor bridges has been executed till the end of February and work in progress 03 no. of minor bridges. Work of Major Bridge 580 will now be started.
- * The execution of LOGH, Station building execution work in progress till the end of February ground floor slab has been completed.
- * Retaining wall for platform work in progress and till the end of February 648 mtr Raft & wall concrete up to 4th lift has been completed. And further backfilling work in progress.
- * Precast walling units (732 Nos.) for Hebbal platform 2 construction has been completed.

3) Section HEB to BPHI (11 Km)

- * Total Scope of earthwork between the section is 70,000 cum out of which 57,468 cum qty has been executed so far.
- * Total scope of minor bridges in the section has been revised due to increase in length of LC's elimination. And now only 09 nos. of minor bridges balance in the doubling scope out of which 05 nos. of minor bridges box has been completed.
- * The total scope of retaining wall cum drain in this section is 1850 mtr. i.e. from 206/500 to 208/350 out of which 695 mtr. has been completed between chainage.

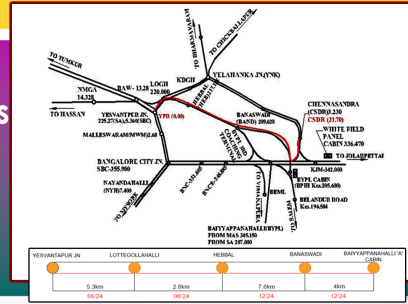


The entire project is expected to be completed by
February 2025.



1 'Doubling of track' project progress updates

YESVANTAPUR TO CHANNSANDRA (21.70 KMS)



YESVANTAPUR



YESVANTPUR BYPASS



HEBBAL

Blanketing, Earth Retaining Structure (ERS) works in progress



BANASWADI

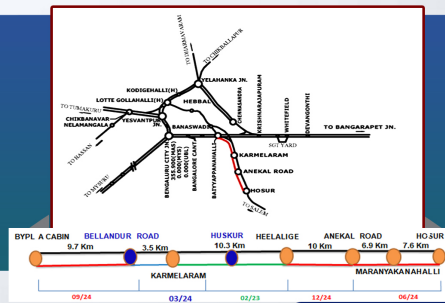


BAIYYAPANAHALLI A CABIN

Construction of Minor Bridge (MIB) 538 and Earth works in progress

2 'Doubling of track' project progress updates

BAIYYAPANAHALLI TO HOSUR (48.00 KMS)



BELANDUR ROAD



HUSKURU



HEELALIGE

Reinforcement Cement Concrete (RCC) box segments casting, Blanketing, Pre-Stress Concrete (PSC) slab launching works



ANEKAL ROAD



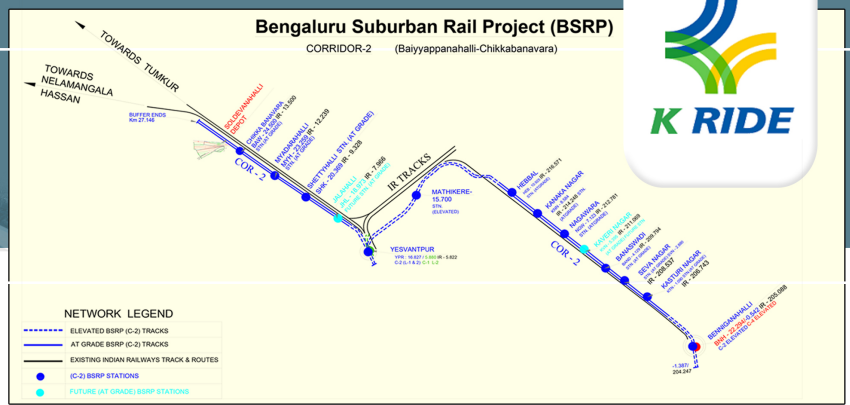
MARANAYAKNAHALLI



HOSUR

Earth cutting, Earth Retaining Structure (ERS) formation works

Corridor -2 Mallige Line Progress updates :



- Corridor -2 Baiyyappanahalli-Chikkabanavara civil works tender was awarded to L&T Limited on 26.08.2022. The 25Km Corridor -2 consists of 8.027km of elevated sections and 17.551km of at-grade section.
- Construction work has commenced at multiple locations along the project alignment of Corridor -2

Key milestones achieved:

- A total of 135 piles have been completed at Hebbal & Yeshwantpur
- Earthwork in embankment /cutting in progress
- Electrical utilities shifting completed for 7 km (between Yeshwantpur to Chikkabanavara).
(Shifting of Electrical completed from goraguntepalya bridge up to Chikkabanavara)
- Further, at LC elimination location between Banaswadi to Hebbal shifting of electrical utilities is in progress.
- Other Utilities shifting like water, sewer and gas lines shifting is in progress.

Civil works in At-grade Sections of length 17.551 Kms.

- Earth Retaining Structure (ERS) is currently under construction for length of 1902m and 830m at different locations namely at Banaswadi to Hebbal and Yeshwantpur to Chikka banavara respectively. And ERS at Benniganahalli to Banaswadi 20m is completed.
- Out of total ERS 2732m work 550m final lift work ERS (Concerting) work completed.
- Out of a total of 53 minor bridges (MIB), 4 no minor bridges have been completed and 3 minor bridges work is in progress between Yeshwantpur to Chikkabanavara and 8 nos of minor bridge partially completed up to the top slab between Banaswadi to Hebbal, and 3 nos of minor bridge under construction
- The 2 ROB to be reconstructed at Yeshwantpur to Chikkabanavara section, Test pile completed for ROB 408 B, Initial pile load test preparatory works are in progress, 410 A Test pile preliminary works is in progress and Major bridge at 560 initial Test pile work completed between Banaswadi to Hebbal section.
- Out of total of 20 no of RUBs- two RUB was partially completed up to top slab between Banaswadi to Hebbal section.
- A 500-meter-long boundary wall at Jalahalli is being constructed for Indian Air-force. The boundary wall work of about 90% completed. (Foundation, Block works completed, Plastering work, barbed wire fencing in progress).
- Layout plan of relocation and reconstruction of assets in defence land which are infringing BSRP corridor-2 at Jalahalli (CQAE) has been approved. Tree cutting permission awaited from BBMP/ forest dept.
- A layout plan for the relocation and reconstruction of assets in defence land that are infringing on BSRP corridor-2 at Garrison Banaswadi (ARMY) has been submitted to defence authorities for approval.
- Permission for gate closure at LC elimination location has been received from District Commissioner, Bengaluru. Presently LC-141 gate is temporarily closed.
- For BSRP construction in BBMP land the permission accorded from Commissioner of BBMP.

Elevated Viaduct Work of total length 8.027 km from Hebbal to Yeshwantpur & Benniganahalli.

- Initial pile load tests have been completed at Hebbal and Yeshwantpur.
- In the Hebbal location, 72 working piles have been completed and construction pile caps is under way, 06 pile caps has been completed, 4 piers have been completed.
- At YPR Yard location 63+ of piles completed. 1 Pile cap completed. The relocation of Sub-Station Electrical (SSE), Traction Distribution Department (TRD) office and parcel office work are in progress.
- The electrical utilities shifting near LC-152 was completed.

Casting yard & Batching plants

- At Gollahalli, a Precast yard spread over 21 acres has been set up by the contracting agency, where the erection of Gantry, Batching plant and other establishment work are in progress.
- Preparation of casting beds for PSC Precast U girder, I girder and Piercap is in progress.
- The casting of U girders will be done at the casting yard and the precast components transported to raising locations along the corridor.
- Out of 3 batching plants set up by the contracting agency - one each at Yeshwantpur, Hebbal and Gollahalli have been commissioned.
- Additionally, a 4th batching plant of (capacity 75 cubic mtr/hr) commissioning is in progress at Gollahalli. Civil Works are in progress for the batching plant and it is expected to be ready by this month end.
- 8 U-girder casting completed and further under progress.

Other miscellaneous works:

- Necessary permissions for tree felling of 2098 nos and transplantation of 178 nos have been obtained from the Tree Authority and the work is in progress in accordance with due norms. Compulsarily tree plantation for 55% of tree felling work completed and 35% of tree translocation completed in Corridor - 2
- Tree is being planted by BBMP, the cost already deposited by K-RIDE for compensatory afforestation .
- Design & drawings for various structures have been approved by the proof consultant (IIT Madras).
- The permission for additional tree felling and transplantation is forwarded to DCF/BBMP.
- BBMP /RFO tree inspection is completed. Further, public notification has been notified by BBMP on 03.02.2023.

Corridor -1 -SBC to Devanahalli Incl. Airport Link.



Alignment Approval by Railway

- Compliance against remarks / comments of Railway's officers has been prepared and uploaded in e-Das of Railway's on 21.01.2024 for final approval.
- Railway's officer's remarks have been received on 06.03.2024, compliances for the same in progress by KRIDE.

Tendering of Corridor 1A- (Approx. 51 Km)

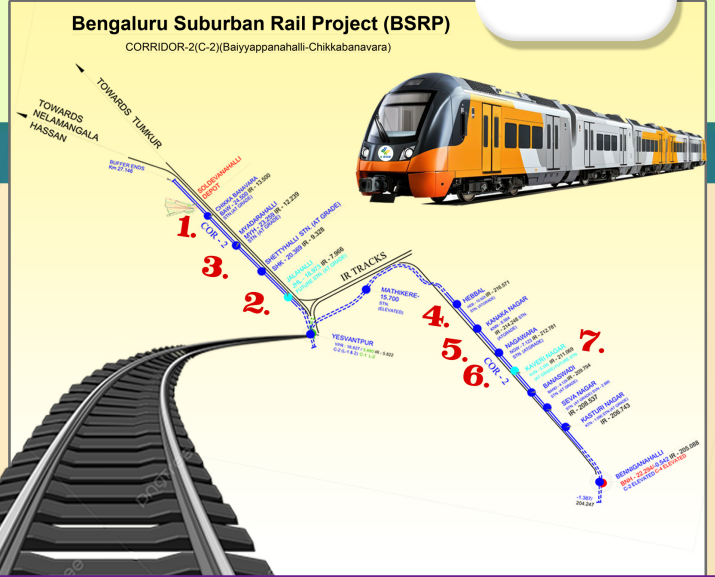
- To encourage more participation of bidders and for early completion of the project, Corridor 1 is divided into two packages. PKG 1A i.e. KSR Bengaluru city to Yelahanka Approx.17 Km length and PKG 1B i.e. Yelahanka to Devanahalli incl. Airport link. Apx.34 Km length.
- Floating of PKG 1A tender has been planned shortly after obtaining NOC from funding agency,
- Revised Tender document, relevant drawings and cost estimate for PKG 1A along with station building is under finalization in consultation with General Consultant (GC).
- Remarks/comments has been received from ASI - Delhi (Archaeological survey of India). Compliances preparation for the same in progress to get the clearance from National Monument authority for Tippu fort and Tippu birth place near Devanahalli.
- Upon the floating of PKG 1A, tender document will be finalized for PKG 1B.



Corridor -3 Kengeri to Whitefield.

Utilization of quadrupling lines from BNC to Whitefield

RITES has submitted the draft pre- feasibility report to K-RIDE. The same has been discussed with SWR official on 15.9.23 at Hubballi. SWR officials requested additional information from RITES to finalise the option.



Corridor -4 Heelalige to Rajankunte.

Corridor - 4 : Heelalige to Rajankunte: The civil works tender awarded. The 48.88Km corridor-4 consists of elevated section of 8.66Km and 37.92Km at -grade level section.

- * Tender awarded to M/s on 30/12/2023 at a cost of Rs. 1040.50 with completion period 30 months.
- * Land acquisitions is in progress
- * Preliminary works are in progress
- * Alignment Plan has been approved by SWR
- * Railway land is yet to be leased to K-RIDE.

Corridor -2 : Mallige Line Major Work Progress

1. CHIKKABANAVARA

Earth Retaining Structure (ERS)raft Concrete pouring, MIB (404) raft works



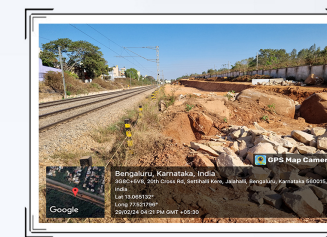
2. JALAHALLI

500-meter-long Airforce boundary wall plastering works



3. MYADRAHALLI

Earth Retaining Structure (ERS)wall bitumen painting, MIB (405) slab staging, Earth cutting and ERS works



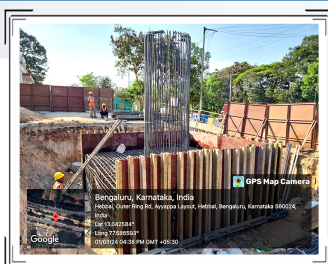
4. HEBBAL

5. KANAKANAGAR

6. NAGAWARA

7. KAVERI NAGAR

(P-6) Pile cap reinforcement, ERS wall shuttering, 40 mtr length & 10.5 mtr height ERS bottom raft concrete pouring ,ERS shuttering works.



Milestones



► Country's first 31-meter U-girder successfully cast for BSRP



31-meter long, single span U-girder, has been successfully cast for the first time in India for Bengaluru Suburban Rail Project, on 7th January 2023, at Casting Yard, Devanahalli. It is an important milestone in construction of Bengaluru suburban Rail Project. The 'Mallige' line or Corridor 2 includes construction of around 8 km viaduct or elevated section, from Hebbal to Yeshvantpura, using such U-girders. Applauding the feat, Dr. M.B Patil, Hon'ble minister for Heavy & Medium industries and Infrastructure development, Govt. of Karnataka said "It's a momentous occasion that a single span 31-meter-long pre-tensioned U-girders has been successfully cast here in Bengaluru, for BSRP. It is the first time in the country that such 31-meter U-girder will be used for rail-based transport infrastructure. I have always believed that Bengaluru Suburban Rail Project with its many innovations, is not just going to be a game changer for Karnataka but will also change the way we visualise commuter rail travel."

U-girders are U-shaped, pre-tensioned, precast girders that allow track to be laid right away. U-girders are widely used in metro projects all over the world since they not only ensure superior quality but also save construction time. So far, 28-meter-long U-girders have been used in other metros. -girder requires 69.5 cubic meter concrete of M60 grade concrete and weight weighs 178 tonnes. Corridor 2 alone require 450 such U-girders. Designed for Codal provision applicable to Indian Railway and Metro construction. An engineering marvel, this 31m U-girder has been designed by Assystem STUP for BSRP and proof checked by IIT/Madras. Third party design evaluation has been done by General consultant (JV of Egis, Aecom and WSP). Entire supervision, precision execution, quality control was closely monitored by K-RIDE. Ensuring technical parameters as per approved structural design, prior and during concreting, extreme caution has to be exercised in casting yard.



Take a look at the U-girder reinforcement work is in progress at Gollahalli casting yard



'Kride Talent Hunt'

"ಉಪನಗರ ರೈಲು"

ನಮಸ್ಕಾರ ಬೆಂಗಳೂರು ||
ನಾನು.. ನಿಮ್ಮ .."ಉಪನಗರ ರೈಲು"

ಹನ್ನೆರಡು ತಿಂಗಳೂ ಹಸಿರು |
ಸದಾ ತಂಪಿನ ಉಸಿರು |
ಸಕಲರಿಗೂ ಸ್ವಂತವಾಗುವ ಊರು
ನಮ್ಮ ಬೆಂಗಳೂರು ||

ಈ ಹಿರಿಮೆ ಗಳಿಗೆಲ್ಲ ಬಹುದೊಡ್ಡ ಶಾಪ |
ತೀರದ ಜನ -ವಾಹನ ದಟ್ಟನೆಯ ಪರಿಶಾಪ |
ತಣಿಸಲೇ ಮಹಾನಗರ ಕೋಪ |
ಬಂತೊಂದು ಸರಕಾರದ ಯೋಜನಾ ಸ್ವರೂಪ ||
ಅದುವೇ -"ಉಪನಗರ ರೈಲು"

ಚಂದದ ಹೂಗಳ ಹೆಸರಿನ 149 ಕಿ.ಮೀಗಳು
ನನ್ನಯ ನಾಲ್ಕು 'ಕಾರಿಡಾರ್'ಗಳು |
ಸೇರಲಿವೆ ಬೆಂಗಳೂರಿನ ನಾಲ್ಕು ಮೂಲೆಗಳು |
ತೀರಲಿವೆ ಜನ-ಸಂಚಾರದ ಕಷ್ಟಕೂಟಲೆಗಳು
ಪರಿಹಾರ ನಾನೇ ..."ಉಪನಗರ ರೈಲು"

ಕ-ರೈಡ್ ಸಿಬ್ಬಂದಿಯ ಅಹೋ ರಾತ್ರಿ ಶ್ರಮದಲ್ಲಿ |
ಮುಗಿಯಲಿದೆ ಯೋಜನೆ ತ್ವರಿತಗತಿಯಲ್ಲಿ |
ಎಲ್ಲರ ಸಹಕಾರ -ಹಾರೈಕೆ ಇರಲಿ ಇವರ ಜೊತೆಯಲ್ಲಿ |
ಬರಲಿರುವ ನಿಮ್ಮೆಲ್ಲರ ಸೇವೆಗಿಂದು ಭರದಲ್ಲಿ |
ಸ್ವಾಗತಿಸಿ, ಸಂಭ್ರಮಿಸಿ, ನಾನೇ.... "ಉಪನಗರ ರೈಲು"



- **ಶ್ರೀಮತಿ ಡಿ.ಪಿ**
ಹಿರಿಯ ಕಾರ್ಯ ನಿರ್ವಾಹಕರು/
ಸಿಬಿಲ್ ವಿಭಾಗ, ಕ-ರೈಡ್



"SAMPARKA" The BSRP Newsletter: Designed, Compiled & Published By Public Realtion Wing , K-RIDE

Editor : Smt. Punitha S. I.I.S, JGM / CPRO – KRIDE

Sub- Editor : Mrs. Reshma., Manager PR, Page design & Photography: Mr. Premsagar. V, Sr.Executive PR

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