

पौष-माघ विक्रम संवत् 2080  
जनवरी 2024 | JANUARY 2024



# रलहरी

# Ralharee



अनंत

अवसरों का रेल संपर्क



**HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED**

वर्ष 3, अंक 1, अर्धवार्षिक पत्रिका | Year 3, Issue 1, Half Yearly Magazine

# FROM THE DESK OF



**SANJEEV KAUSHAL, IAS**  
Chief Secretary, Govt. of  
Haryana & Chairman, HRIDC

हरियाणा रेल अवसंरचना विकास निगम लिमिटेड द्वारा हरियाणा ओर्बिटल रेल कोरिडोर परियोजना के प्राथमिकता अनुभाग, मानेसर से पातली खंड और कुरुक्षेत्र शहर में बनाई जा रही ऐलिवेटेड रेलवे लाइन के निर्माण कार्य को चालू वित्त वर्ष में पूर्ण करने का प्रयास है। हरियाणा रेल इन दो स्वीकृत परियोजनाओं के अलावा हरियाणा में रेल के विकास के लिए विज़न 2047 पर भी कार्य कर रही है। इस दिशा में हिसार एयरपोर्ट को दिल्ली एयरपोर्ट से जोड़ने के लिए गढ़ी-हरसरु-फारुखनगर रेल के दोहरीकरण एवं फारुखनगर-झज्जर के लिए नई दोहरी रेल, करनाल-यमुनानगर नई रेल लाइन, सिरसा से चंडीगढ़ को जोड़ने के लिए नरवाना- उकलाना नई रेल लाइन और कैथल में एलीवेटेड रेल के लिए व्यवहार्यता अध्ययन किया जा रहा है। मेरा विश्वास है कि हरियाणा रेल अपने लक्ष्यों को निर्धारित समय में पूर्ण करेगी।

एशियन इन्फ्रास्ट्रक्चर इनवेस्टमेंट बैंक (एआईआईबी) द्वारा एचओआरसी भाग-ए के कार्यों की प्रगति एवं एचओआरसी भाग-बी के ऋण के लिए पूर्व-अपेक्षित कार्यों की समीक्षा 09.10.2023 से 13.10.2023 तक की गई। एआईआईबी ने एचओआरसी भाग- ए के कार्यों एवं एचओआरसी भाग-बी के ऋण के लिए पूर्व-अपेक्षित कार्यों पर संतोष व्यक्त किया।

HRIDC, with support of Govt. of Haryana & Ministry of Railway, is working for timely completion of Priority section of HARC for connecting Maruti Suzuki India Ltd. plant at Manesar with Patli station on IR network which will start revenue generation for Indian Railways & HORCL. The work of Kurukshetra Elevated Track for elimination of 05 busy manned level crossings around Thanesar Station is being done on Cost sharing basis & expected to be commissioned within current financial year.



**ANURAG RASTOGI, IAS**  
Addl. Chief Secretary, PW  
(B&R) & Chairman,  
HORCL

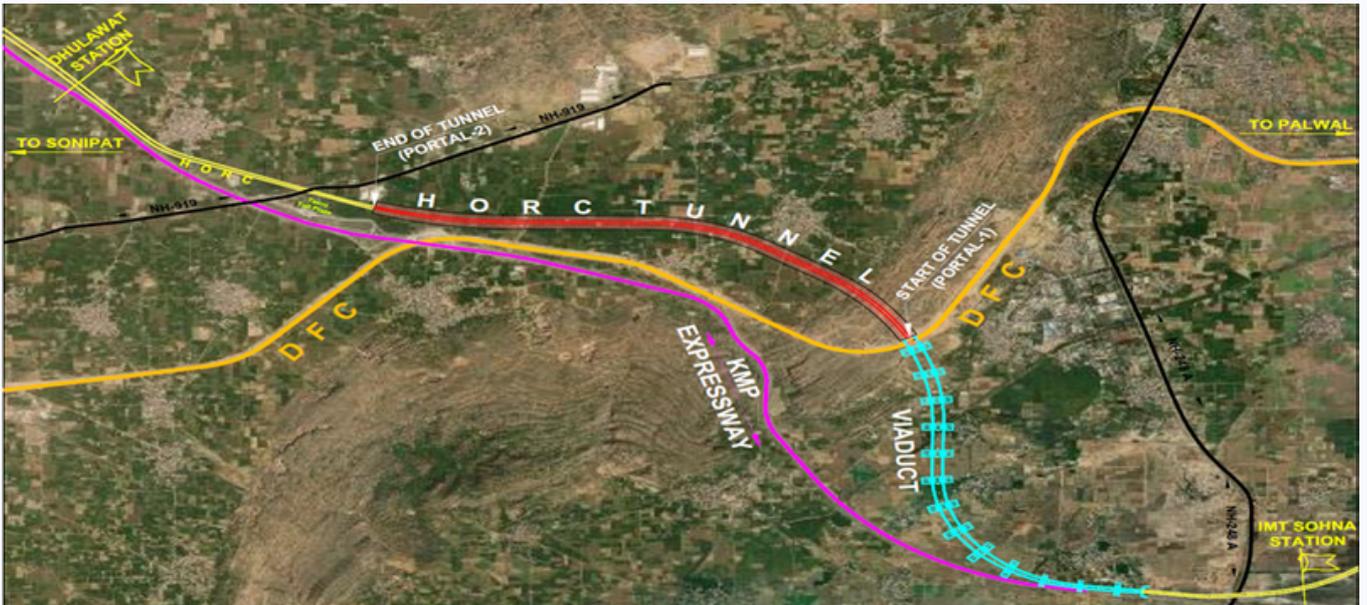
एचओआरसी पलवल से सोहना, मानेसर और खरखौदा होते हुए सोनीपत तक 100 किमी प्रति घंटे की गति से डबल स्टैक कंटेनर ट्रेन और 160 किमी प्रति घंटे की गति से यात्री ट्रेन चलाने के लिए सेमी हाई स्पीड डबल रेल लाइन के निर्माण के लिए एचओआरसी परियोजना का काम तेज गति से निष्पादित कर रहा है। संपूर्ण एचओआरसी परियोजना के लिए भूमि अधिग्रहण हेतु 20 F अवार्ड जारी जारी किए जा चुके हैं और संबंधित भूमि मालिकों को 80% मुआवजा राशि का वितरण भी किया जा चुका है।

All civil contracts for Part-A of HARC project have been awarded and works are in progress. Contract of construction of 4.7 km Twin Tunnel for Part B has been awarded and tenders for other packages of Part B are in various stages of procurement. Govt. of Haryana is providing necessary support in all fields viz land acquisition, forest clearance and financing of project. Completion of Patli-Manesar priority section of HARC project is expected within current financial year. On the initiative of HRIDC, ACS No.4 to ACTM has been issued by Railway Board which will avoid the shifting/modification of 11 nos. of EHT Power line crossing in HARC Project.



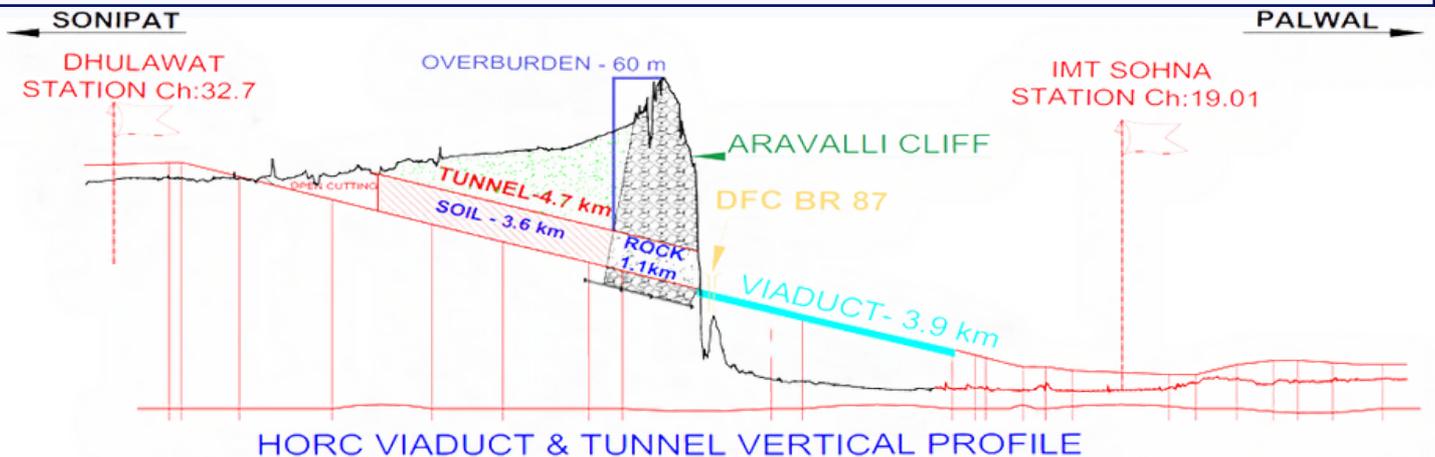
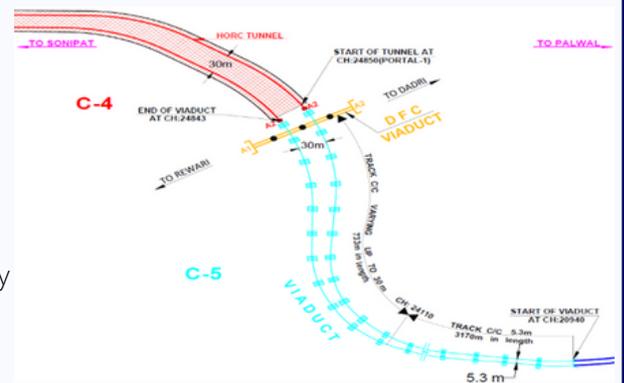
**RAJESH AGARWAL, IRSE**  
Managing Director  
HRIDC & HORCL

# HORC VIADUCT



## SALIENT FEATURES OF HRC VIADUCT

- Length of Viaduct- 3.9 km
- Max. Height of Viaduct- 26 m
- Design Speed- 160 kmph for Passenger trains & 100 kmph for Goods trains
- Loading Standards - Super-Structure – 25 t & Sub-Structure – DFC loading (axle load 32.5 t)
- Span arrangement- RDSO Standard span of 24.4 m or higher, steel composite girder
- Type of foundation-
  - Open foundation near the hill side where SBC is satisfactory due to rocky strata.
  - Pile foundation in non-liquefiable soil
  - Well foundation in liquefiable soil
- BLT- enhanced maintainability
- Rail Interaction Study- for designing the Viaduct for Long Welded Rails (LWR) forces
- LWR- improved ride quality on Viaduct & enhanced safety
- Seismic Zone – IV
- Max. Curvature- 1.4 degree
- Gradient – 1 in 150 (compensated)

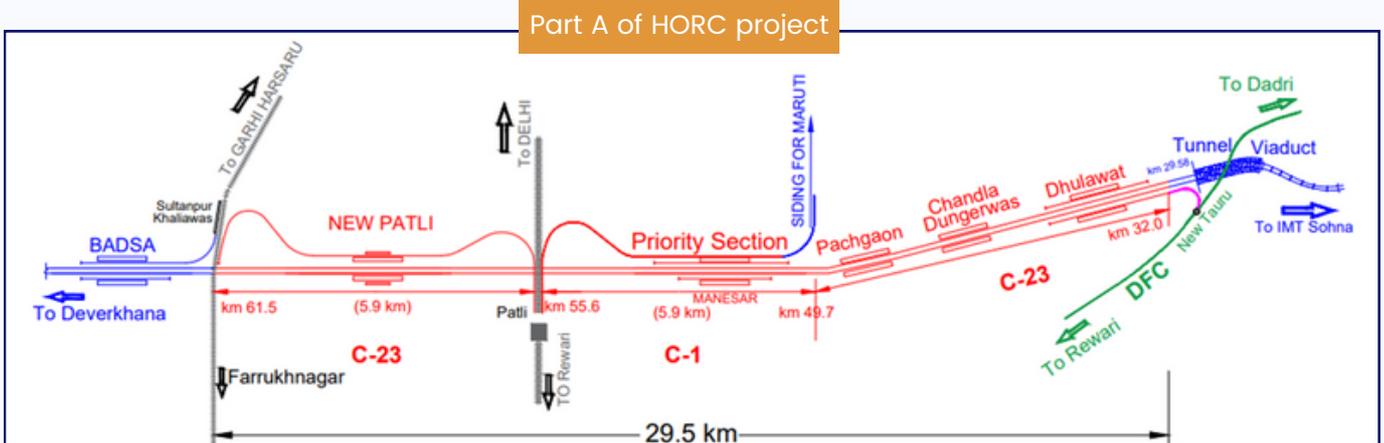


**C-5 Tender** - Earthwork, bridges, viaduct, station buildings & other civil works from km 0.00 to km 12.0 and km 18.0 to km 24.850.

- SPN issued on 03.11.2023.
- Pre-bid meeting held on 22.11.2023.
- Technical bid due for opening on 18.01.2024

# IMPLEMENTATION PROGRESS OF PART-A :

HORC comprises of 126 km new Broad Gauge Double line with High Rise OHE. Project is divided into Part-A & Part-B for ease of planning, financial funding, construction and commissioning. HORC Part-A comprises of 29.50 km Main line from Dhulawat to Badsa and 11.40 km Connectivities to Indian Railway Network (Delhi-Rewari line at Patli and Garhi Harsaru-Farrukhnagar line at Sultanpur).



## PROGRESS OF CIVIL WORKS OF PART A :

All contract packages for civil works awarded & package wise progress of works is as under:-

PACKAGE	PROGRESS	REMARKS
C-1: Earthwork, bridges, station building & other civil works from km 49.70 to km 55.60.	40%	<ul style="list-style-type: none"> <li>Substructure of major bridge 134 completed</li> <li>12 out of 15 minor bridges completed</li> <li>Earthwork &amp; other Civil works in progress</li> </ul>
Br-1: Fabrication, erection and launching of OWG on NH-352.	95%	<ul style="list-style-type: none"> <li>Launching of 03 nos. OWG on Pataudi Road completed &amp; track works are in progress</li> </ul>
T-1: Laying of Track and track related works from km 32 to km 61.5.	20%	<ul style="list-style-type: none"> <li>30k cum ballast supplied</li> <li>13k PSC sleepers transported to site</li> <li>Supply of track fittings in progress</li> </ul>
C-23: Composite Work Contract (Civil & General Electrical Services) from km 29.58 to km 49.70 & from km 55.60 to km 61.50.	3%	<ul style="list-style-type: none"> <li>Site office, lab &amp; batching plant commissioned</li> <li>Earthwork &amp; bridge works commenced</li> </ul>



Earth Work in C1



Bridge - 135

## PROGRESS OF PATLI-MANESAR CONNECTIVITY (PRIORITY SECTION) :



Bridge - 135 B



Retaining wall

S. NO	ITEM	SCOPE	PROGRESS
1.	Modification of EHT crossings (no.)	4	100%
2.	Modification of LT crossings (no.)	14	100%
3.	Clearance of ROW (km)	5.9	100%
4.	Earthwork (lakh cum)	12.72	55%
5.	Retaining wall (Rm)	2133	75%
6.	Major Bridge- 134 (1x76.2 m OWG)	1	100%
7.	Minor Bridge (no.)	13	77%

# CONSTRUCTION OF ROAD UNDER BRIDGE (BR NO. 134) OF 1X76.2M SPAN OPEN WEB GIRDER (OWG) EACH FOR THREE LINES OVER NH-352 W (PATAUDI ROAD) BETWEEN MANESAR AND NEW PATLI STATIONS OF NEW BG DOUBLE RAILWAY LINE OF HORC PROJECT.

HRIDC has successfully completed the construction of Br. No 134 on Gurugram-Pataudi Road i.e NH 352W. The launching of final span was done on 24.09. 2023. The configuration of the bridge is 1X76.2m span Open Web Girders (OWG) each on three lines i.e up main line , down main line and Manesar-Patli Connectivity line.



The substructure works were completed by M/s KCC Buildcon Pvt Ltd. The concrete used for construction of substructure is approximately 2300 Cum. Modern and latest Technologies were used for the pre and post construction activities. The Superstructure works i.e Fabrication, Assembly and Launching of Open Web Girders were done by M/s M G Contractors Pvt Ltd. The Fabrication of Girders was done in a controlled environment at the workshop of M/s M G Contractor Pvt Ltd at Ambala with multiple level of quality control checks.

A total of 1650 MT of structural steel has been used for the superstructure of the bridge. Each girder weighs approximately 500MT. Due to longer span and heavy weight of girders, a latest method of launching was used which is known as end launching method by skidding. Assembly of Girders was done on trestle arrangements placed over CC cribs. By assembling the girders over trestle, the launching activity became independent of earthwork on approaches and a lot of time has been saved. The average time for launching of each 76.1 m span OWG over NH-352 W was approx. 240min.



PTFE materials (4.5 mm) fixed with a sliding plate.

By adopting the above method, the launching has been done without any disruption of the road traffic on NH-352 W. There was no requirement of diversion or stoppage of the running traffic on NH during the construction of substructure as well as assembly & launching of superstructure. All the safety precautions were taken during the launching operations and the execution of bridge was done without any unusual incidence.



Arrangement for sliding of girder on rails fixed on launching girders.

## Environmental Safety Health & Social (ESHS) at Bridge Site:

- An ESHS manual has been prepared by the Contractor for the execution of the works.
- Proper PPE kit was ensured for all the workers and staff working on the Bridge site.
- Hard barricading was provided on the road side where the trestles were placed.
- Flagmen were deployed to ensure the safety of road traffic.
- Noise Monitoring was done at the bridge site.
- Sprinkling of water on the roads was ensured to control the dust.

## | SYS-1 TENDER:

Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise OHE, Power Supply System and SCADA in connection with HORC Project including Rigid Overhead Conductor System (ROCS) in Tunnel Portion

- SPN was issued on 29.05.2023.
- Pre-bid meeting was held on 17.06.2023.
  - HRIDC received 274 queries. All the queries were examined in detail.
  - The queries were for various items covering EQC, ITT, PCC, Technical, Civil, Simulation, time extension etc.
  - The issues which are normally not addressed in most of the system tenders like issues of Interface with other contractors and systems of IR and DFC, access dates, technical base lines, technical specifications, climatic criteria for design, confirmation of supply voltage level for incoming supplies, taxation issues like that of customs duty and GST. All these issues were resolved. Accordingly, 9 corrigenda were issued for addressing each and every query.
- Technical Part opened on 05.09.2023. Good response received as 06 bidders participated. The bidders included the 3 top companies from private sector and 3 public undertakings.
- Financial Part of all the 06 technically eligible bidders opened on 30.10.2023.
- Notification of Intention to Award is likely to be issued by 31.12.2023.

## | ADVANCE CORRECTION SLIP NO.4 TO RAILWAY MANUAL OF AC TRACTION (ACTM):

On the initiative of HRIDC, Advance Correction Slip No.4 to ACTM has been issued by Railway Board on 30.11.2023, in connection with regulation of Power line crossings of Railway tracks. This revision will avoid the shifting/modification of 11 nos. of EHT Power line crossing in HORC Project and will also benefit the other New Railway line construction projects of Indian Railways.

## | KURUKSHETRA ELEVATED TRACK (KET)

The construction work for the Kurukshetra Elevated Track (5.84 km), aimed to decongest the Kurukshetra city by eliminating five manned level crossings on the existing Kurukshetra- Narwana Railway Line, is in advance stage of completion and is planned to be commissioned in two parts.

Part I- Elevated Track portion will be commissioned during current financial year for closing of all the 05 busy manned level crossings.

Part II- Thanesar Station along with elevated passenger platforms. Till such time Part II is commissioned, Bus services from Kurukshetra & Pindarsi stations to Thanesar area will be arranged for commuting of train passengers.



THE PROGRESS OF IMPORTANT ACTIVITIES OF KET:			
S. NO	ACTIVITY	SCOPE (NOS.)	PROGRESS (NOS.)
1.	Construction of Piles	1296	1296
2.	Pile caps	214	205
3.	Pier shafts	214	201
4.	Pier Caps	214	191
5.	Casting of Girders	452	452
6.	Launching of PSC Girders	452	290
7.	Deck Slabs	200	122
8.	Laying of Track, OHE and S&T works	5.8 km	Work in progress

## AIIB IMPLEMENTATION SUPPORT MISSION FOR PART A AND PRE-APPRAISAL MISSION FOR PART B

Asian Infrastructure Investment Bank (AIIB) team has conducted Implementation support Mission for HORC Part A and Pre-appraisal Mission for HORC Part B from 09.10.2023 to 13.10.2023. The main objectives of the mission were two-fold: (i) to review the progress of Part A implementation; and (ii) to assess the readiness of Part B project preparation.



AIIB site visit at Br-134



AIIB Team interaction with Villagers & Land owners

AIIB team has interacted with HRIDC & GC officials for review of Implementation progress of Part A, Lessons learnt from Part-A, Project Preparation Progress of Part B, Estimated Costs, Updates on the technologies to be used, Climate resilient measures, Project Management System, Demonstration of SPEED, availability of Counterpart funds, Revenue Generation plan, FM arrangement, Procurement Plan, Land Acquisition, ESMP implementation, GRM, Gender Action Plan and Capacity Building Program. AIIB team has carried out site visit of HORC Part A & Part B and interacted with Stakeholders at Karnki village in Sohna sub- division of Gurugram district.

AIIB team met with Shri Shobhan Chaudhuri, General Manager and other senior officials from Northern Railway. The Bank team also met with Shri Sanjeev Kaushal, Chief Secretary and other senior officials from of the Government of Haryana (GoH).

AIIB team was satisfied with the implementation progress of HORC Part A & Project preparation progress for HORC Part B.

## हरियाणा रेल ने मनाया राजभाषा पखवाड़ा

हरियाणा रेल ने राजभाषा के प्रचार और प्रसार के लिए 14.09.2023 से 29.09.2023 तक राजभाषा पखवाड़ा मनाया गया। इस अवसर पर विभिन्न प्रतियोगिताओं जैसे प्रारूप एवं टिप्पण लेखन, निबंध लेखन, आवेदन, परिपत्र इत्यादि का आयोजन किया गया। राजभाषा पखवाड़े का समापन काव्यपाठ एवं पखवाड़े के दौरान विभिन्न प्रतियोगिताओं के विजेताओं को सम्मानित कर के किया गया। इस अवसर पर प्रबंध निदेशक ने ऑफिस के दैनिक कार्यों में हिन्दी के उपयोग को बढ़ाने के लिए प्रोत्साहित किया।

अनंत अवसरों का रेल संपर्क , जोड़े पलवल से सोनीपत रेल नेटवर्क ।।  
लाभान्वित होंगे सभी, परियोजना की सफलता में, परस्पर प्रयास भरसक,  
अनंत अवसरों का रेल संपर्क , जोड़े पलवल से सोनीपत रेल नेटवर्क ।।  
परियोजना में सुरक्षा और गुणवत्ता में, नहीं लेशमात्र भी शक,  
वैश्विक स्तर पर दिखेगा, तकनीकी सुंदरता का अद्भुत फर्क,  
अनंत अवसरों का रेल संपर्क , जोड़े पलवल से सोनीपत रेल नेटवर्क ।।  
हरित होगी सोच, न पर्यावरण पर कोई बोझ,  
कुछ इस तरह बयां, विकास का काव्यरूपी तर्क,  
अनंत अवसरों का रेल संपर्क , जोड़े पलवल से सोनीपत रेल नेटवर्क ।।  
(श्री विकास कुमार हरित, वरिष्ठ रेजिडेंट इंजीनियर/विद्युत/जी. सी.)



काव्यपाठ एवं राजभाषा पखवाड़ा समापन समारोह

## VIGILANCE AWARENESS WEEK

HRIDC has organised various vigilance awareness programs on the occasion of vigilance week from 30 October to 3 November. During the vigilance awareness week, integrity oath was taken by all employees.



Constitutional Day Celebration

## संविधान दिवस

हरियाणा रेल ने अपने गुरुग्राम कार्यालय में दिनांक 28.11.2023 को संविधान दिवस मनाया। इस कार्यक्रम में चंडीगढ़ और गुरुग्राम के सभी कर्मियों ने भाग लिया। इस अवसर पर सभा को संबोधित करते हुए एम.डी./हरियाणा रेल, श्री राजेश अग्रवाल ने बताया कि 26 नवम्बर 1949 को संविधान सभा द्वारा संविधान देश को सौंपा गया था। इस अवसर पर संविधान की प्रस्तावना का सामूहिक वाचन कर के संविधान दिवस मनाया गया।



Vigilance Integrity Oath by HRIDC

**OPPORTUNITY FOR PUBLIC INVESTMENT IN HORCL:** HORCL is intending to host an Investors Meet in first quarter of year 2024. The idea behind investors meet is to highlight two-pronged opportunities of investment in HORC Project. The first one is in the form of Equity holding of HORCL which enables participation in HORCL Management by nomination of a Director in HORCL Board. The second one is in the field of business opportunities being created by HORCL, like development of Private Freight Terminals (PFTs) and Property Development on the land around new railway stations coming up on the HORC.



HRIDC Board Meeting on Nov 22, 2023



AIIB team interaction with CS/GoH, ACS/PW (B&R) during AIIB Mission on 12.10.2023



TPRM meeting held on 28.07.2023



MD/HRIDC site visit of priority section on 15.12.2023



AIIB Team with HRIDC & GC team at Inaugural session on 09.10.2023



AIIB team interaction with GM/NR and other senior Railway officers on 11.10.2023.