

**RAIL INDIA
HERITAGE
BUREAU**



INDIAN RAILWAY MUSEUMS SERIES
01 OF 15

INDIAN RAILWAY MUSEUMS—SYMBOLS OF OUR NATION

Preserving the Legacy • Celebrating Engineering • Honouring Railway Personnel • Educating Future Generations



UNITY



ENGINEERING



PUBLIC SERVICE



NATIONAL MEMORY

Our Railways • Our Heritage • Our History • Our National Pride



VIKSIT
BHARAT 2047



MAKE IN INDIA



NET ZERO 2070



DIGITAL INDIA



VISION ZERO

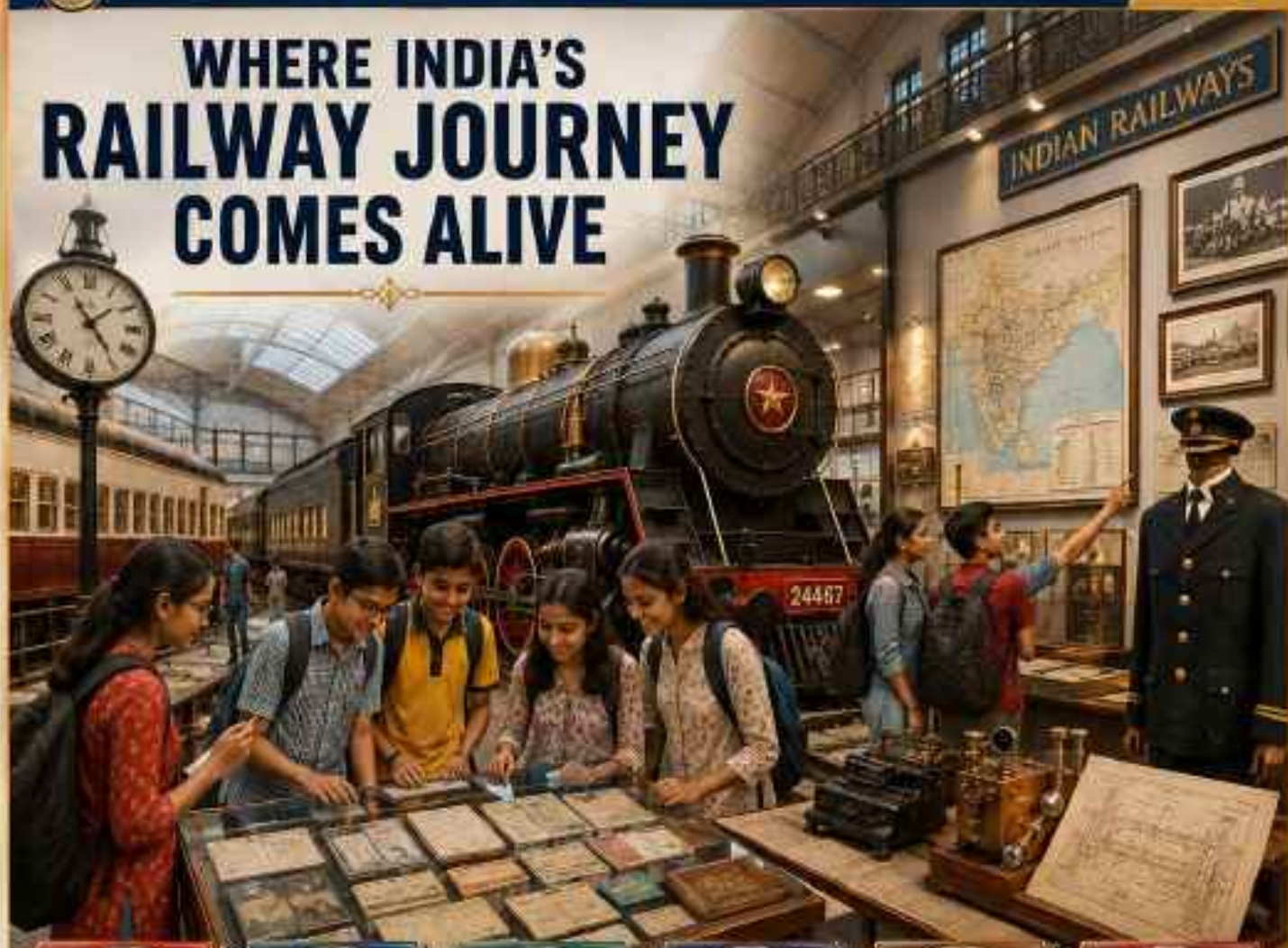
RAIL INDIA HERITAGE BUREAU



A LIVING HISTORY OF INDIAN RAILWAYS

PAGE 2

WHERE INDIA'S RAILWAY JOURNEY COMES ALIVE



LOCOMOTIVES

Marvel at the power and engineering that built the rails of a nation.



COACHES

Step inside the evolution of travel—from wooden carriages to modern comfort.



SIGNALS

Discover the systems that ensure safety, precision and seamless movement.



DOCUMENTS

Explore rare tickets, maps, blueprints and records that tell our story.



HUMAN STORIES

Hear the inspiring tales of railway heroes and everyday changemakers.



NATIONAL DEVELOPMENT

See how railways connected people, powered industry and shaped India's growth.

Experience History • Understand Engineering • Celebrate Progress

OUR NATIONAL COMMITMENTS, OUR COLLECTIVE FUTURE



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RAIL INDIA HERITAGE BUREAU



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NATIONAL RAIL MUSEUM — NEW DELHI

INDIA'S PRINCIPAL CENTRE OF RAILWAY HERITAGE

Inaugurated 1 February 1977

• History • Engineering • Culture • Public Service



STEAM



MONORAIL



ROYAL SALOONS



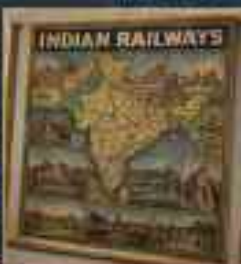
CRANES



MODELS



ARCHIVES



OUR NATIONAL COMMITMENT



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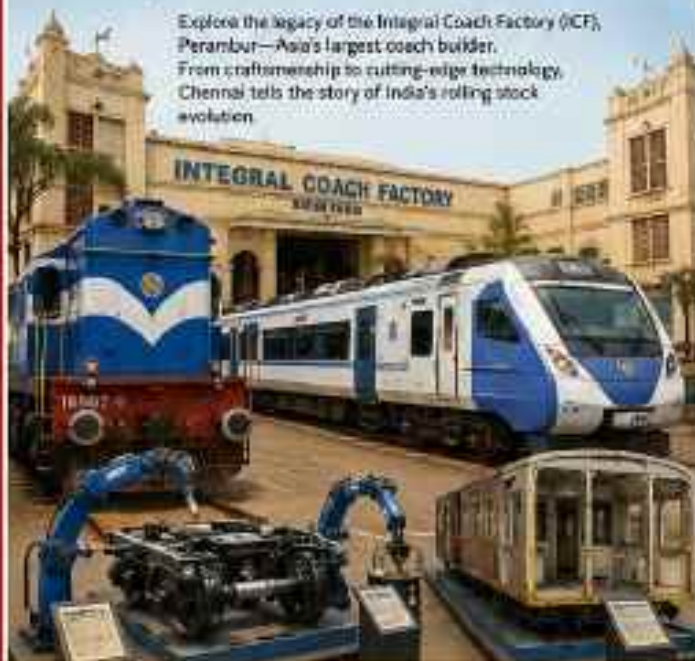
REGIONAL RAILWAY MUSEUMS

CHENNAI & MYSURU— ENGINEERING, COACHES AND ROYAL TRAVEL

CHENNAI RAIL MUSEUM

Birthplace of Indian Coach Building Excellence

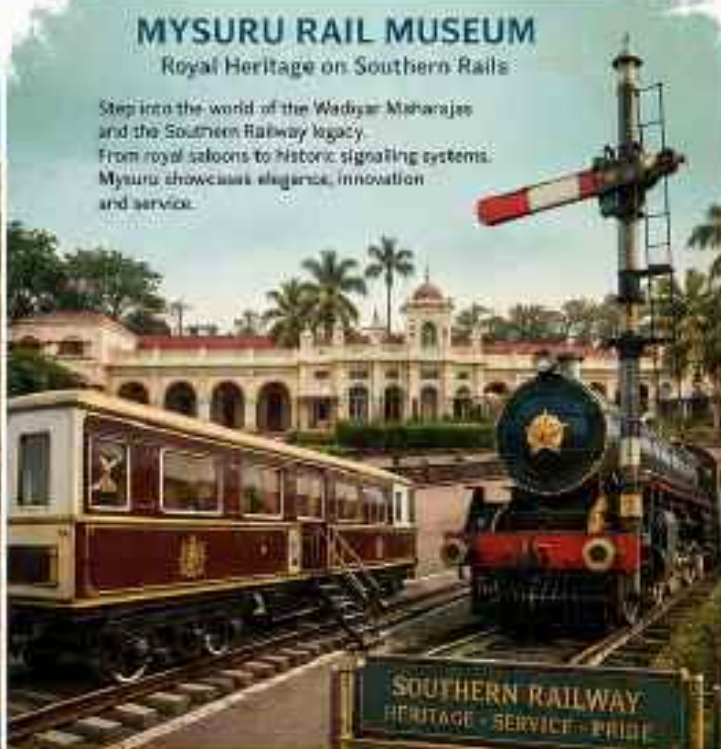
Explore the legacy of the Integral Coach Factory (ICF), Perambur—Asia's largest coach builder. From craftsmanship to cutting-edge technology, Chennai tells the story of India's rolling stock evolution.



MYSURU RAIL MUSEUM

Royal Heritage on Southern Rails

Step into the world of the Wodeyar Maharajas and the Southern Railway legacy. From royal saloons to historic signalling systems, Mysuru showcases elegance, innovation and service.



COACH DESIGN



INDIGENOUS
MANUFACTURING



ROYAL
SALOONS



SIGNALLING



MAINTENANCE



STUDENT
LEARNING



Regional Stories • National Heritage • Shared Knowledge

OUR NATIONAL COMMITMENT



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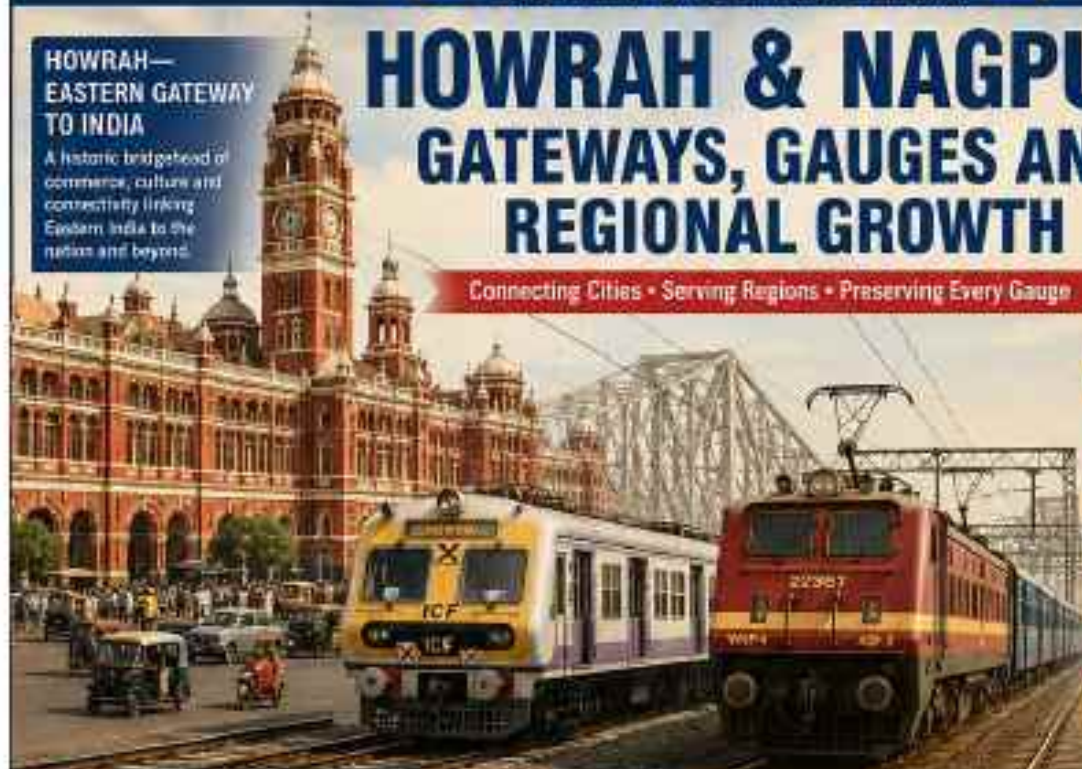


**HOWRAH—
EASTERN GATEWAY
TO INDIA**

A historic bridgehead of commerce, culture and connectivity linking Eastern India to the nation and beyond.

HOWRAH & NAGPUR— GATEWAYS, GAUGES AND REGIONAL GROWTH

Connecting Cities • Serving Regions • Preserving Every Gauge



EASTERN GATEWAY

Howrah has been the grand eastern portal of Indian Railways since the 19th century.



SUBURBAN RAIL

One of India's earliest suburban systems—lifeline of millions every day.



FREIGHT HISTORY

From coal and jute to steel and containers—Howrah powered economic transformation.



RAILWAY WORKERS

Generations of railwaymen and women built, ran and sustained the Eastern Railway network.

NARROW GAUGE RAIL MUSEUM, NAGPUR

Preserving India's Narrow Gauge Legacy



**A LIVING MUSEUM OF HERITAGE,
ENGINEERING AND REGIONAL STORIES**
Celebrating the ingenuity of narrow gauge railways that
sped remote regions, connected communities and
carried India forward.

Gauges That Connect

NARROW GAUGE
2 ft 6 in
(762 mm)



Different
Gauges,
One Nation
Connected

BROAD GAUGE
5 ft 6 in
(1,676 mm)



REGIONAL CONNECTIVITY



Narrow gauge
lines carried
people, produce
and dreams
across hills,
forests and
farmlands.



HOWRAH BRIDGE & STATION
A symbol of engineering
excellence and urban vitality.



SUBURBAN HERITAGE
Then and now—mobility that
keeps the city moving.



GOODS SHEDS & YARDS
The backbone of trade and
industrial growth.



THE RAILWAY FAMILY
Skilled hands, strong values,
lasting legacy.



NAGPUR—A JUNCTION OF HISTORY
From colonial workshops to modern
museums—heritage continues.

OUR NATIONAL COMMITMENT



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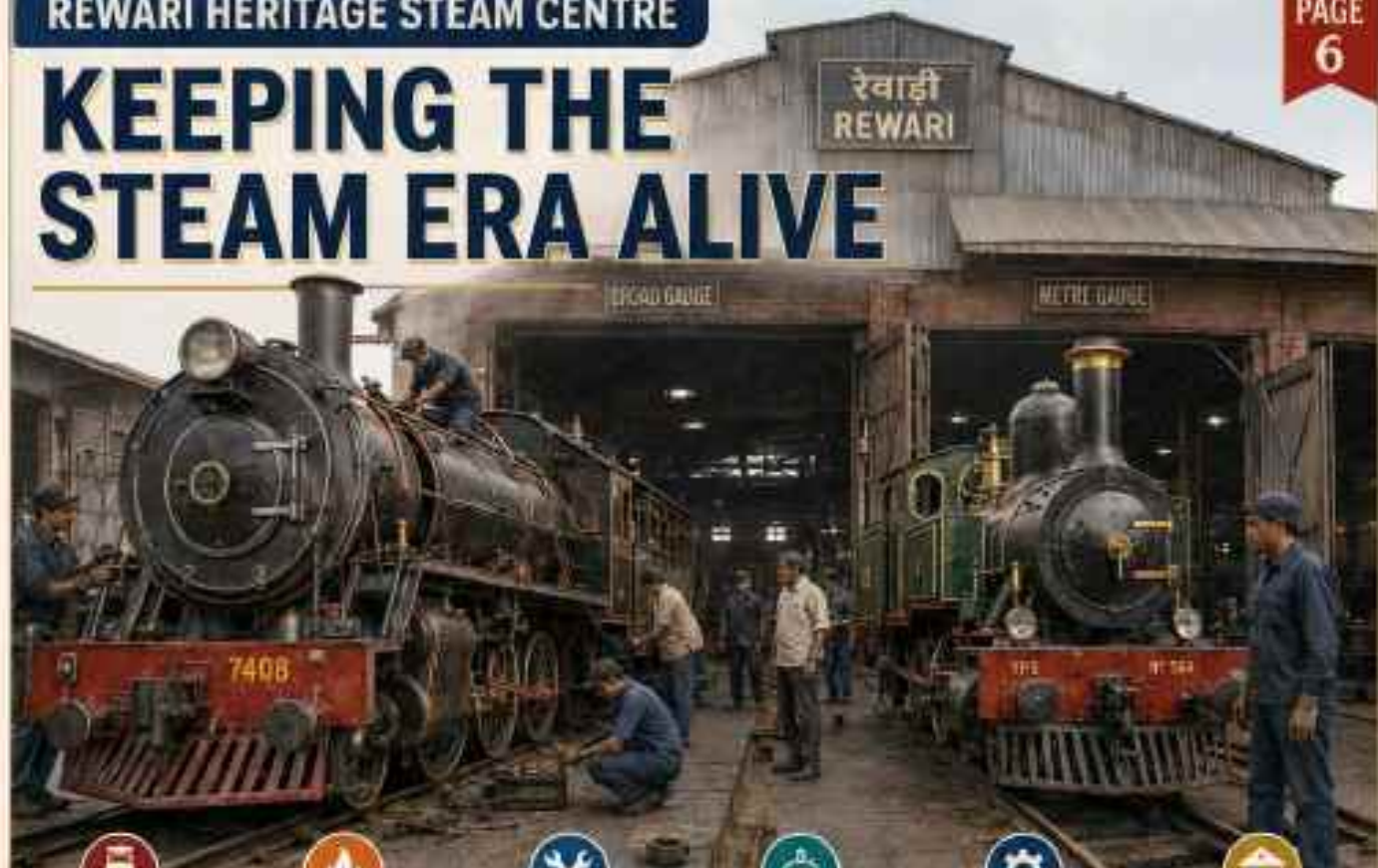
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REWARI HERITAGE STEAM CENTRE

**PAGE
6**

KEEPING THE STEAM ERA ALIVE



DRIVERS

FIREMEN

FITTERS

BOILER SKILLS

WORKSHOP TOOLS

LIVING HERITAGE



STUDENT LEARNING

Steam power required knowledge, teamwork, discipline and constant maintenance.



Preserve the Machine • Honour the Skill • Remember the People



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LOOPS, REVERSES AND LIVING STEAM IN THE HIMALAYAS

Engineering in Motion • Heritage in the Hills • A Journey Through Time



NARROW-GAUGE



B-CLASS STEAM



LOOPS



REVERSES



HILL COMMUNITIES



RESPONSIBLE
TOURISM



DID YOU KNOW?

The Darjeeling Himalayan Railway has six loops and five reverses to gain height over steep terrain. It is a UNESCO World Heritage Site and a symbol of ingenious mountain engineering.



THE RAILWAY AT A GLANCE

- Opened: 1881
- Gauge: 2 ft (610 mm)
- Highest Point: Ghum (2,258 m / 7,407 ft)
- Locomotive Class: B-Class 0-4-0ST
- Route Length: 88 km (approx.)
- Heritage Value: Engineering Marvel, Cultural Landscape, Living Heritage



HERITAGE IN ACTION

From loops and reverses to living steam, the Darjeeling Himalayan Railway is more than a journey—it is a living classroom of engineering, community, and conservation.





RACK-AND-PINION ENGINEERING THROUGH THE BLUE MOUNTAINS

Specialised Engineering • Mountain Beauty • Responsible Heritage



RACK RAIL



STEEP
GRADIENTS



STEAM
POWER



BRIDGES



TUNNELS



ENVIRONMENTAL
CARE



A MARVEL OF MOUNTAIN ENGINEERING

Opened in 1908, the Nilgiri Mountain Railway is a masterpiece of specialised engineering. It uses a central rack rail and pinion gear to climb some of India's steepest gradients.

From deep valleys to misty hill stations, it connects landscapes, people and cultures—sustainably.



GAUGE
1000 mm (Metre Gauge)



MAXIMUM GRADIENT
1 in 12.5 (80‰)



LENGTH
46 km



COMMISSIONED
15 October 1908



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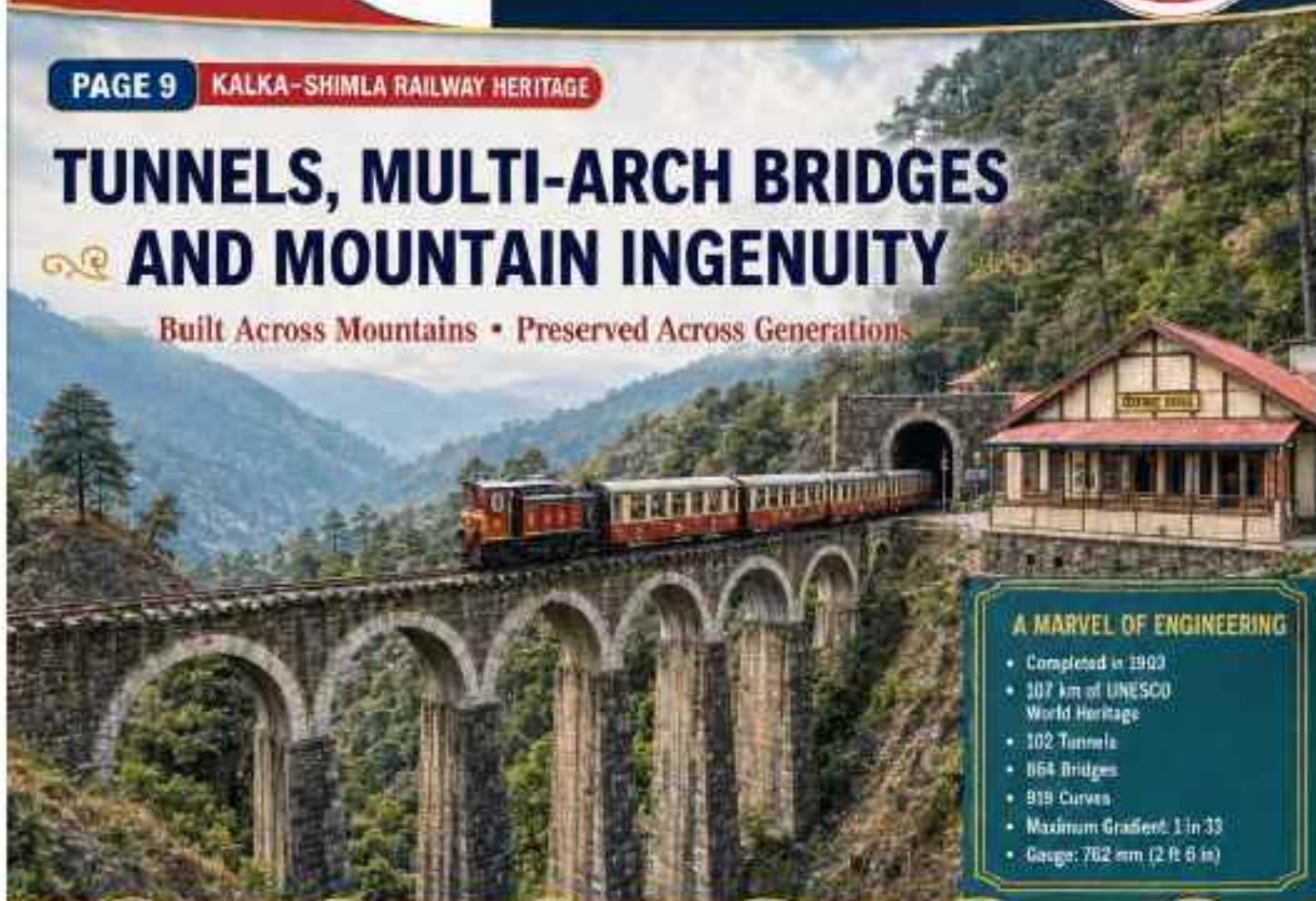


VISION
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TUNNELS, MULTI-ARCH BRIDGES AND MOUNTAIN INGENUITY

Built Across Mountains • Preserved Across Generations



A MARVEL OF ENGINEERING

- Completed in 1903
- 107 km of UNESCO World Heritage
- 102 Tunnels
- 864 Bridges
- 919 Curves
- Maximum Gradient: 1 in 33
- Gauge: 762 mm (2 ft 6 in)



NARROW GAUGE

Built to 762 mm gauge, perfect for steep gradients and tight mountain alignments.



TUNNELS

Carefully driven through tough rock strata using early 20th-century techniques.



MULTI-ARCH BRIDGES

Elegant masonry viaducts that blend strength, beauty and landscape harmony.



CURVES

919 curves, many below 100 metres radius—testament to precision surveying.



HISTORIC STATIONS

Heritage stations like Barog, Dharanpur and Solan reflect colonial charm and local craftsmanship.



MAINTENANCE DISCIPLINE

A legacy of meticulous upkeep ensures safety, reliability and longevity.

BRIDGE LOAD MODEL - UNDERSTANDING STRENGTH



Students observe how load is distributed across arches, piers and abutments. A simple model, a timeless lesson in engineering.



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INDIA'S RAILWAY LEGACY OF OUTSTANDING WORLD VALUE

DARJEELING HIMALAYAN RAILWAY



NILGIRI MOUNTAIN RAILWAY



KALKA-SHIMLA RAILWAY



**CHHATRAPATI SHIVAJI MAHARAJ
TERMINUS, MUMBAI**



WORLD HERITAGE

Recognised by
UNESCO for
Outstanding
Universal Value.



ENGINEERING

Pioneering feats
of ingenuity in
challenging
terrains.



ARCHITECTURE

Victorian Gothic
Revival with
Indian artistry
and craftsmanship.



CONSERVATION

Preserving heritage
for future
generations
with care.



ACCESSIBILITY

Inclusive access
for all to explore
and appreciate
our heritage.



**RESPONSIBLE
TOURISM**

Travel mindfully.
Respect culture.
Protect heritage.

Protect Heritage • Support Safe Access • Share India's Story with the World





FROM STEAM POWER TO SMART, SAFE AND SUSTAINABLE RAILWAYS

1

**STEAM &
MECHANICAL
ENGINEERING**

2

**DIESEL
TRACTION**

3

**ELECTRIC
TRACTION**

4

**MODERN
TRAINSETS**

5

**DIGITAL &
ADVANCED
SAFETY**



EVOLUTION OF RAILWAY SIGNALLING



SEMAPHORE SIGNALS



COLOUR-LIGHT SIGNALS



ROUTE-RELAY INTERLOCKING



ELECTRONIC INTERLOCKING



POWER

Steamer engines,
Higher efficiency,
cleaner energy.



SIGNALS

From arms to algorithm -
safer operations,
greater reliability.



COMMUNICATION

From telegraph
to digital networks -
always connected.



**PASSENGER
COMFORT**

Smootier journeys,
faster amenities,
greater accessibility.



TICKETING

From paper tickets to
smart cards and
mobile apps.



SAFETY

Technology,
training and systems -
safety always first.



Understand the Past • Improve the Present • Engineer the Future



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★ ★ ★ **HONOURING GENERATIONS OF RAILWAY PERSONNEL** ★ ★ ★

THE RAILWAY STORY

IS A HUMAN STORY



EXPLORE OUR EXHIBITS



UNIFORMS



TOOLS



DIARIES



MEDALS



ORAL HISTORIES



SERVICE RECORDS



**Record the memories of retired railway personnel
before valuable knowledge is lost.**



Honour Every Worker • Preserve Every Story • Inspire Every Generation





A LIVING CLASSROOM FOR HISTORY, SCIENCE, ENGINEERING AND SAFETY

See • Question • Understand • Respect • Preserve



HISTORY



SCIENCE



ENGINEERING



GEOGRAPHY



ARCHITECTURE



ENVIRONMENT



PUBLIC SERVICE



RAILWAY SAFETY



1 LOCOMOTIVE CUTAWAY

Understanding the heart of a steam engine.



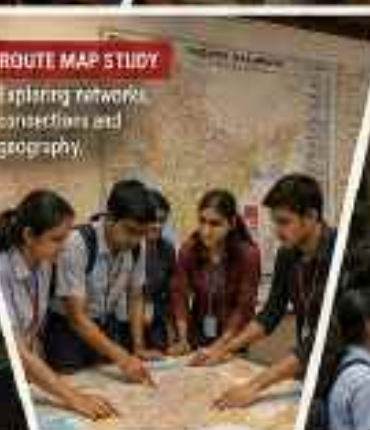
2 BRIDGE-LOAD MODEL

Learning how bridges are designed and tested.



3 SIGNALLING SIMULATOR

Experiencing safe train movement through interactive learning.



4 ROUTE MAP STUDY

Exploring networks, connections and geography.



5 GUIDED HERITAGE TOUR

Connecting stories, structures and station heritage.



6 HERITAGE QUIZ

Fun questions. Curious minds. Lasting knowledge.



Heritage appreciation never permits entry into tracks, sheds, workshops or operational areas without authorisation and supervision.





PRESERVING RAILWAY MEMORY **FOR EVERY STUDENT, EVERYWHERE**



**DIGITISE
RECORDS**



**3D
MODELS**



**VIRTUAL
TOURS**



**ARCHIVED
FILMS**



**ORAL
HISTORY**



**VERIFIED
METADATA**



**SAFE
STORAGE**



**NATIONAL
ACCESS**



Digitisation protects access—
but never replaces conservation of the original object.



Preserve Digitally • Verify Carefully • Share Responsibly



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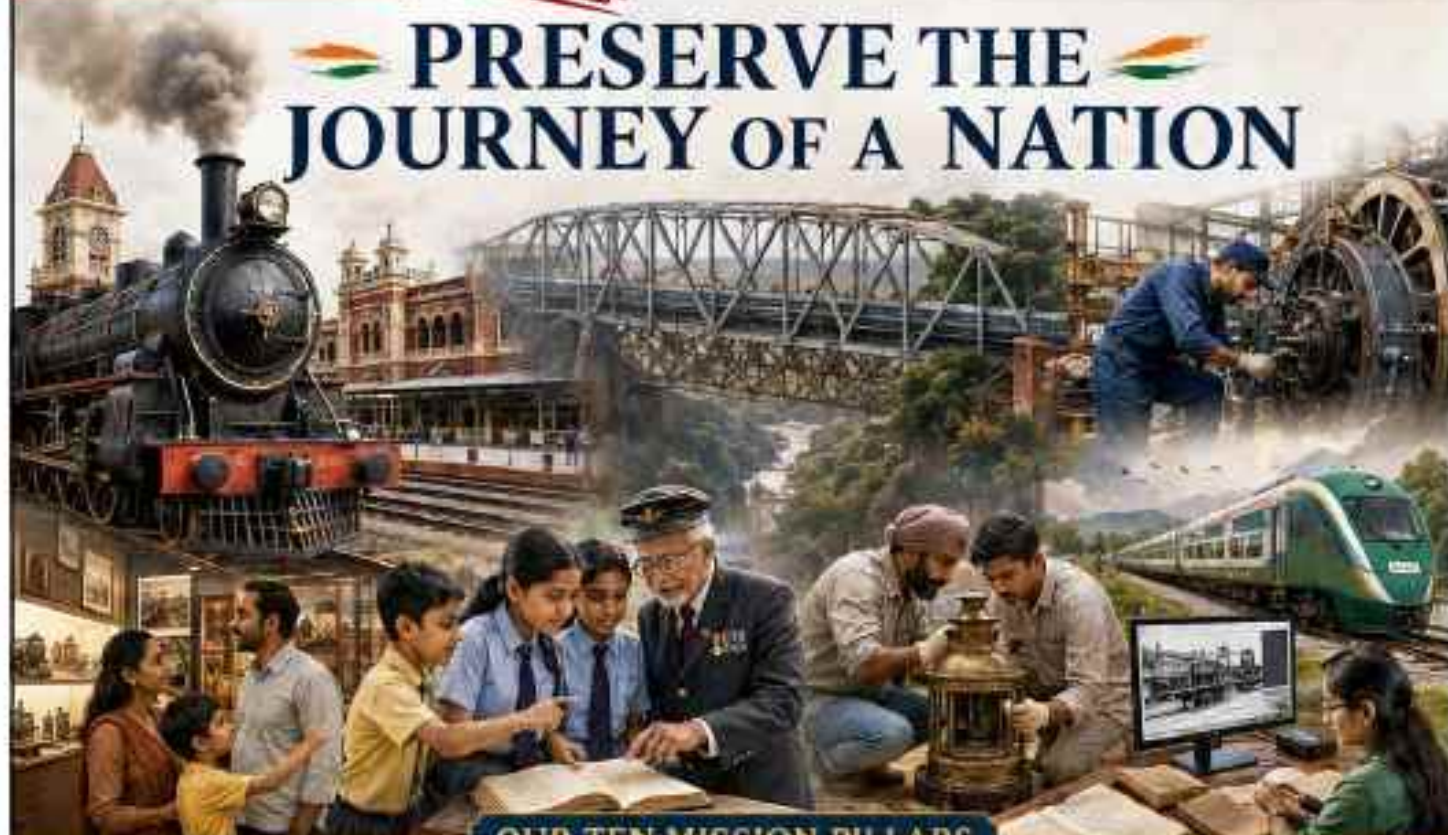
**DIGITAL
INDIA**



**VISION
ZERO**



PRESERVE THE JOURNEY OF A NATION



OUR TEN MISSION PILLARS



**SCIENTIFIC
CONSERVATION**



**HISTORIC
STATIONS**



**NATIONAL
CATALOGUING**



**DIGITAL
ARCHIVES**



**ORAL
HISTORIES**



**SCHOOL
PROGRAMMES**



**CONSERVATION
TRAINING**



**ACCESSIBLE
INTERPRETATION**



**RESPONSIBLE
TOURISM**



**RESEARCH &
PUBLICATIONS**

**Preserve Every Historic Asset • Record Every Valuable Story
Educate Every Generation • Honour Every Railway Worker**



**Indian Railway Museums—Where Engineering
Meets History, Memories Inspire Learning and
the Journey of a Nation Lives Forever**

