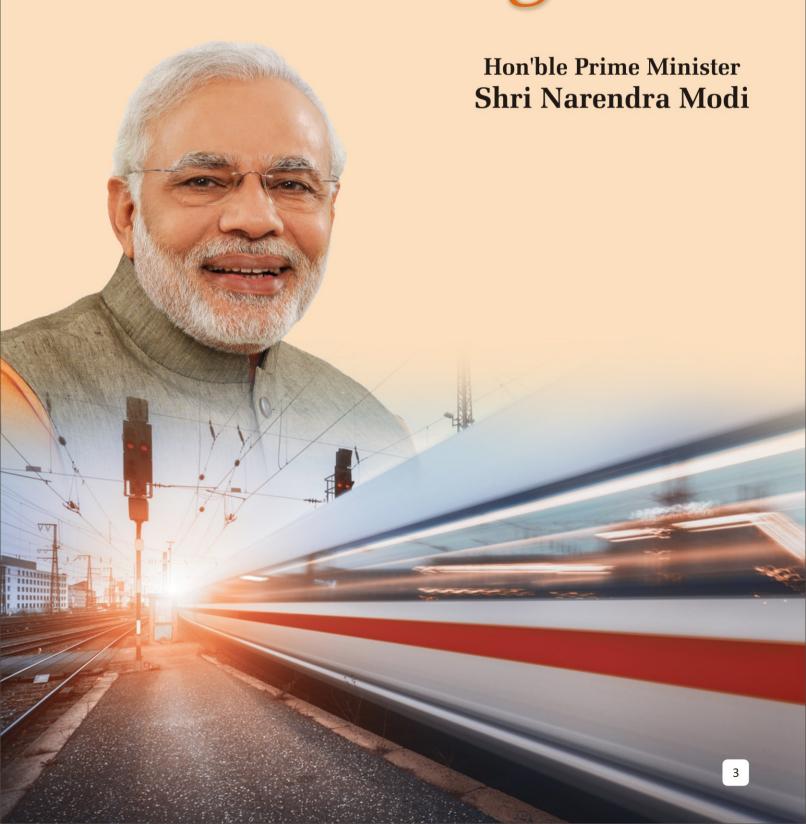




N.B: It may be noted that the budgets allocated to various projects are not apportioned State wise but reflect the cost of the project.

Desh ko Gati bhi rail se milegi, aur Pragati bhi



Development by Railways in Gujarat: 2014 - Present

First Ever Bullet Train in India: Ahmedabad - Mumbai High Speed Train

Speed: To reduce travel time from approx. 8 hours to 2 hours

Safety: Japanese Shinkansen Technology with record zero fatalities in 50 Years and train delay record of less than a min

Affordable: Low cost funding from Government of Japan at miniscule rate of interest

Jobs : Generate employment for about 20,000 workers during the construction phase

Create hubs of economic development

Work commenced with ground breaking ceremony on 14th September, 2017

Make India a leader in Bullet train technology







Shri Narendra Modi, Hon'ble Prime Minister & Shri Shinzo Abe, Hon'ble Prime Minister of Japan at the Ground Breaking Ceremony of Ahmedabad - Mumbai High Speed Rail Project



Laying Foundation Stone for Redevelopment Project of Gandhinagar Railway Station



Flagging off Udhna - Jayanagar Antyodaya Express



Flagging off Vadodara - Varanasi Mahamana Express

Development by Railways in Gujarat: 2014 - Present

Major Projects

Building World Class Railway Stations

- Gandhinagar Capital Station being developed into a World Class Station
- India's first railway station jewelled with amenities at par with modern airport
- Redevelopment through formation of Special Purpose Vehicle (SPV) between Gujarat State Government & Indian Railway Stations Development Corporation Ltd. (IRSDC) on behalf of Ministry of Railways under the name Gandhinagar Railway & Urban Development Corporation Ltd. (GARUD)
- Project will be completed by 31st December, 2018



Shri Narendra Modi, Hon'ble Prime Minister, viewing the Model of Gandhinagar Capital Railway Station

Features of State of the Art Railway Station

- Segregation of Arrival & Departure of Passengers
- Divyang Friendly: 3 Lifts & 2 Escalators
- Passenger Amenities: 604 Seats, Food Stall, Book Stalls & Shops, etc.
- Parking Space: 1,000 Cars, 200 Two-wheelers & 100 auto-rickshaws
- Prayer Room, First Aid Room, Signages for ease of navigation & passenger information

5 more stations in Gujarat have been selected for redevelopment viz. Ahmedabad, Vadodara, Rajkot, Bhavnagar City & Valsad.



Development by Railways in Gujarat: 2014 - Present

Surat: Multi Modal Transportation Hub



- First of its kind project in India, bringing together Center, State and local municipal corporation
- Development of Multi Modal Transport Hub at Surat Railway Station which also includes Local Buses,
 Bus Terminal, Metro, Autorickshaws & private vehicles in an integrated hub to provide seamless connectivity
- Station redevelopment to be done via commercial development on leasehold rights for a lease period of 90 years on the vacant railway land and air space.
- Ownership to lie vested in the promoters, only developmental rights transferred to JVC i.e. a newly formed company named 'SITCO - Surat Integrated Transportation Corporation' to develop MMTH

Joint Venture between Indian Railways & Govt. of Gujarat

- A new company named 'Gujarat Rail Infrastructure Development Ltd (G-RIDE)' formed to develop rail infrastructure in the state
- These include :
 - Regional Rail System around Ahmedabad and other cities
 - Metro / High Speed rail connectivity between Ahmedabad & Dholera
 - Gauge conversion of Katosan Road-Chanasma-Ranuj section
 - Port Connectivity
 - Other Rail projects identified by Govt. of Gujarat on priority basis

Development by Railways in Gujarat: 2014 - Present

India's First National Rail and Transportation University at Vadodara



Artist's impression of the National Rail & Transportation University at Vadodara

- Set Indian Railways on the path of modernisation
- Create a resource pool of skilled manpower
- Enhance productivity and promote "Make in India"
- Help leverage state-of-the-art technology
- Undergraduate course to commence on 1st August, 2018
- Post Graduate courses likely to commence from 2019

Development by Railways in Gujarat: 2014 - Present

Western Dedicated Freight Corridor (WDFC) A Step towards Nation Building

- 1,504 Kms. of double line electric track dedicated for freight movement on western parts of India to connect JNPT near Mumbai with Dadri near Delhi having 565 Kms. running through Gujarat
- Earthwork on Iqbalgarh-Vadodara-Surat section & work on 54 important and major bridges in Surat section are in full swing
- The time line for completion of the project is March, 2020
- More passenger trains can be run on existing lines due to release of additional capacity by shifting of goods movement on Dedicated Freight Corridor
- It will boost industrial growth in Gujarat and other states



Monitoring of Working of NTC Machine using Drone





Mahi Bridge Work in progress

Development by Railways in Gujarat: 2014 - Present



Rail Budget 2018-19

New Works included in Budget 2018-19

- Doubling between Mahesana-Palanpur, Length: 65 Kms., Cost: ₹ 529 Crore
- Doubling between Rajkot Kanalus, Length: 111 Kms., Cost: ₹ 1,012 Crore

Electrification

- Electrification of 1,142 Kms. of tracks included in Budget 2018 19
- The state's proportionate cost is ₹ 1,053 Crore
- 14 sections sanctioned for Electrification

Road Over Bridges/Road Under Bridges

- 19 Road Over Bridges have been sanctioned for the year 2018-19
- 49 Road Under Bridges / Subways have been sanctioned for the year 2018-19

Surveys

2 new lines & 3 doubling projects included in the budget

Passenger Amenities

- Provision of Foot Over Bridges and Raising of platforms to High level (₹ 450 Crore approx.)
- Soft upgrades / Improvements at stations (₹ 300 Crore approx.)
- Provision of Lifts & Escalators (₹ 29 Crore approx.)
- Provision of Washable Apron (₹ 10 Crore approx.)





Sr. No.	Name of Project	Length	Cost of Project	Target Date of Completion	Status (Sections Opened and Kms. Completed)				
/·	MAJOR NEW LINE PROJECTS								
1	Patan - Bhildi New Line	51 Kms.	₹ 403 Crore	November 2018	90% completed				
2	Chhota Udepur - Dhar New Line	157 Kms. (27 Kms. in Gujarat)	₹ 1,347 Crore	March 2022	Chhota Udepur - Motisadli : 22Kms. commissioned in 2017.				
3	Somnath - Kodinar New Line	37 Kms.	₹ 394 Crore	March 2022	Land acquisition in progress				
4	Bhimnath - Dholera New line	28 Kms.	₹ 302 Crore	March 2021	Land acquisition proposals prepared				
5	Dahod - Indore New Line	205 Kms. (23 Kms. in Gujarat)	₹ 1,640 Crore	March 2022	Indore - Tihi : 21 Kms. commissioned				
6	Moda <mark>sa -</mark> Shamlaji Road	23 Kms.	₹ 108 Crore	March 2021	Land acquisition in progress				
7	Taranga Hill - Abu Road via Ambaji	89 Kms.	₹ 1,696 Crore	DPR approved. Further approvals being processed.					

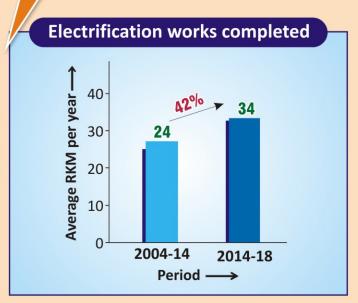
Sr. No.	Name of Project	Length	Cost of Project	Target Date of Completion	Status (Sections Opened and Kms. Completed)				
	MAJOR GAUGE CONVERSION PROJECTS								
1	Ahmedabad - Himmatnagar - Udaipur Gauge Conversion	299 Kms. (152 Kms. in Gujarat)	₹ 1,247 Crore	March 2019	Asarava - Himmatnagar (85 Kms.) targeted to be commissioned by March 2019				
2	Ahmedabad - Botad Gauge Conversion	170 Kms.	₹ 976 Crore	September 2019	45% completed				
3	Ahmedabad - Mahesana Gauge Conversion	70 Kms.	₹ 478 Crore	March 2020	28% completed				
4	Bhuj - Naliya Gauge Conversion	101 Kms.	₹ 322 Crore	March 2019	New Bhuj - Deshalpur (30 Kms.) commissioned in September 2017				
5	Mahesana - Taranga Hill Gauge Conversion	57 Kms.	₹ 195 Crore	March 2019	Mahesana - Vadnagar 33 Kms. targeted for completion in December 2018				
6	Miyagam Karjan - Dabhoi - Samalaya Gauge Conversion	96 Kms.	₹ 844 Crore	March 2023	10% completed				
7	Dhasa - Jetalsar Gauge Conversion	104 Kms.	₹ 644 Crore	January 2020	20% completed				
8	Dabhoi - Chandod Guage Conversion with extension up to Kevadiya	50 Kms.	₹ 666 Crore	September 2019	 (1) Tenders under process for Dabhoi - Chandod section (Target date of completion December 2018) (2) Land acquisition in progress in Chandod - Kevadiya section 				
					(Target date of completion September 2019)				

Sr. No.	Name of Project	Length	Cost of Project	Target Date of Completion	Status (Sections Opened and Kms. Completed)			
	MAJOR DOUBLING, 3RD AND 4TH LINE PROJECTS							
1	Vatva - Ahmedabad 3rd Line	8 Kms.	₹ 40 Crore	March 2019	72% completed			
2	Viramgam - Samakhiali Doubling	182 Kms.	₹ 1,037 Crore	December 2019	Viramgam - Sadla : 21 Kms., Jatpipali - Sukhpur : 53 Kms. commissioned in 2017			
3	Surendranagar - Rajkot Doubling	116 Kms.	₹ 1,002 Crore	March 2022	10% completed Surendranagar - Ramparada targeted for completion in February 2019			
4	Palanpur - Samakhiali Doubling	275 Kms.	₹ 1,549 Crore	October 2020	-			
5	Udhna - Jalgaon Doubling	307 Kms. (98 Kms. (in Gujarat)	₹ 2,447 Crore	June 2018	Udhna - Navapur (Gujarat Section) Commissioned			
6	Abu Road - Palanpur Doubling	56 Kms.	₹ 220 Crore	March 2019	73% Completed			

Development by Railways in Gujarat: 2014 - Present

Electrification works in progress

- Total 89 TKM Railway electrification of Udhna -Jalgaon Doubling project has been commissioned up to March 2017, out of 100 TKM which comes under Gujarat state
- Sabarmati Khodiyar section (11 RKM) and Gandhinagar - Kalol - Mahesana Section (62 RKM), Total 73 RKM has been commissioned up to Dec'17
- Mahesana Palanpur section (73 RKM) including Khodiyar - Kalol has been commissioned in March 2018
- Mahesana Jaksi section (54 RKM) and Sabarmati -Viramgam section (55 RKM) will also be electrified by June - 2018



Benefits

Faster Trains ● Environment Friendly ● Low Energy Cost





Major Works Completed between April 2014 - March 2018					
Project	Number of Projects	Length (in Kms.)	Cost (₹ in Crore)	Remark	
New Lines	2	33	282	Partially completed	
Gauge Conversion	1	30	95	Partially completed	
Doubling Lines	3	216	1,443	Two completed & one partially completed	
Total	6	282	1,820		

Ongoing Projects as on March 2018					
Project Head Number of Projects Length (in Kms.) Cost (₹ in					
New Lines	6	500	4,195		
Gauge Conversion	25	1,533	10,265		
Doubling	8	1,017	7,122		
Total	39	3,050	21,582		

Development by Railways in Gujarat: 2014 - Present

New Trains in Last 4 Years

82 New Train Services Introduced

- Train No. 22920/19 Ahmedabad Chennai Humsafar Express
- Train No. 22994/93 Mahuva Bandra (T) Superfast Express
- Train No. 19030/29 Mahuva Bandra (T) Express
- Train No. 22992/91 Veraval Bandra (T) Superfast Express
- Train No. 59549/50 Vadodara Ahmedabad Sankalp Fast Passenger
- Train No. 19063/64 Udhna Danapur Express
- Train No. 15560/59 Ahmedabad Darbhanga Jansadharan Express
- Train No. 19415/16 Ahmedabad Shri Mata Vaishno Devi Katra Express
- Train No. 22937/38 Rajkot Rewa Express
- Train No. 22939/40 Hapa Bilaspur Express
- Train No. 19453/54 Gandhidham Puri Express
- Train No. 79449/50 Morbi Maliya Miyana DMU
- Train No. 69133/34 Anand Dakor MEMU
- Train No. 69135/36 Anand Dakor MEMU
- Train No. 22963/64 Bhavnagar Terminus Bandra Terminus Superfast Express
- Train No. 19401/02 Ahmedabad Lucknow Express
- Train No. 19421/22 Ahmedabad Patna Express
- Train No. 22967/68 Ahmedabad Allahabad Express
- Train No. 22936/35 Palitana Bandra Terminus Superfast Express
- Train No. 19419/20 Ahmedabad Chennai Express
- Train No. 19579/80 Bhavnagar Terminus Delhi Sarai Rohilla Express
- Train No. 20903/04 Vadodara Varanasi Mahamana Express
- Train No. 15563/64 Udhna Jaynagar Jn Antyodaya Express
- Train No. 16587/88 Yeshvantpur Bikaner Express
- Train No. 22933/34 Bandra Terminus Jaipur Express
- Train No. 19021/22 Bandra Terminus Lucknow Express



- Train No. 22653/54 Thiruvananthapuram Hazrat Nizamuddin Superfast Express
- Train No. 22655/56 Thiruvananthapuram Hazrat Nizamuddin Superfast Express
- Train No. 22444/43 Bandra Terminus Kanpur Central Superfast Express
- Train No. 17623/24 H. Sahib Nanded Bikaner Jn Express
- Train No. 22414/13 Hazrat Nizamuddin Madgaon Rajdhani Express
- Train No. 12494/93 Hazrat Nizamuddin Pune Express
- Train No. 19312/11 Indore Pune Express
- Train No. 19332/31 Indore Kochuveli Express
- Train No. 15068/67 Bandra Terminus Gorakhpur Express
- Train No. 22498/97 Sriganganagar Tiruchirappalli Humsafar Express
- Train No. 19041/42 Bandra Terminus Ghazipur City Express
- Train No. 59169/70 Anand Vadtal Passenger
- Train No. 22913/14 Bandra Terminus Patna Express
- Train No. 22921/22 Bandra Terminus Gorakhpur Express
- Train No. 20901/02 Bandra Terminus Udaipur Link Express
- 9 trains extended
- Frequency of 3 trains increased
- 3,704 special trains
- Additional stoppages given to 40 trains
- 70 additional coaches added on permanent basis
- 11,071 additional coaches on temporary basis



Development by Railways in Gujarat: 2014 - Present

On the Path of Speedier Progress



Hon'ble Minister of Railways, Flagging off Vadodara - Varanasi Mahamana Express

- 289 trains speeded up with the time-frame ranging from 5 minutes to 170 minutes (2.50 hrs.)
- The speed of Rajdhani, August Kranti and Shatabdi Express trains has been increased to 130 kmph in Godhra-Virar and Ahmedabad-Vadodara sections
- Timings of Bandra (T) Bhavnagar Bandra (T) Express revised to meet the demand of early arrival at destination stations
- Introduction of new LHB rakes for 11 trains including Karnavati Express & Gujarat Mail trains
- Travel time from Surat & Vadodara to Mumbai & Delhi reduced by introduction of New Special Rajdhani Express between Mumbai & Delhi





Introduction of Vadodara - Varanasi Mahamana Express

Development by Railways in Gujarat: 2014 - Present

 A new state of the art 'Anubhuti Coach' with aircraft-like features has been attached to the Ahmedabad -Mumbai Shatabdi Express

Features of Anubhuti coaches:

- LCD entertainment screens with every seat
- Reclinable cushioned leg rests
- Personalized reading lights and 'bell' button







Anubhuti Coach

Interiors of Anubhuti Coach

 The coaches of Ahmedabad - Mumbai Shatabdi Express and Mumbai - New Delhi Rajdhani Express have been refurbished and given a swanky look under 'Project Swarn'

Features of the newly furbished Mumbai - New Delhi Rajdhani Express:

- Retro-reflective destination boards and coach numbering plates
- Food Serving Trolleys introduced
- Luxury fittings like better quality taps, health faucets provided in the washrooms







Refurbished Interiors of Rajdhani Express

Development by Railways in Gujarat: 2014 - Present

Upgradation of Passenger Amenities

New Concept Trains



Udhna - Jayanagar Antyodaya Express

- Long distance fully unreserved superfast train
- Tea, coffee & milk vending machines
- Heating chamber & a refrigerating box in each coach
- Futuristic look with the use of Vinyl sheets on the exterior of coaches



Jamnagar - Bandra Terminus

Uday Express in the Pipeline

- Utkrisht Double-Decker Air-conditioned Yatri (UDAY) Express
- AC chair car overnight trains for small haul routes.
- Tea, coffee & milk vending machines
- Smoke alarms and CCTV cameras
- Heating chamber & a refrigerating box in each coach

Vadodara - Varanasi Mahamana Express

- Model Rake modified under the 'Make in India' scheme
- Platform wash basin, controlled discharged water tap
- Ergonomically designed Ladders
- Fire extinguishers in all coaches

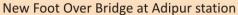


Ahmedabad - Chennai Humsafar Express

- Fully air conditioned III AC service
- Smoke alarms and CCTV cameras
- Bio-toilets
- Futuristic look with the use of Vinyl sheets on the exterior of coaches









Escalator

- 99 cover sheds constructed
- 28 New waiting rooms have been provided / upgraded
- 27 new retiring rooms have been provided / upgraded



Ramp



AC Waiting Room at Vadodara



AC Retiring Room at Ankleshwar



Inauguration of Water Vending Machine at Vadodara



Dedication to Nation of new platform at Khambhaliya

- Unique ID cards are being issued to Divyang passengers for online PRS Ticket Booking
- Battery operated carts have been provided at 4 stations
- Airport type trolleys at 18 stations



Inauguration of Battery Operated Cart



Lifts installed at Dwarka



Water Vending Machine installed at stations



Battery Operated Cart at stations

Development by Railways in Gujarat: 2014 - Present



Advancing With Digital Technology





Wi-Fi provided at 35 stations

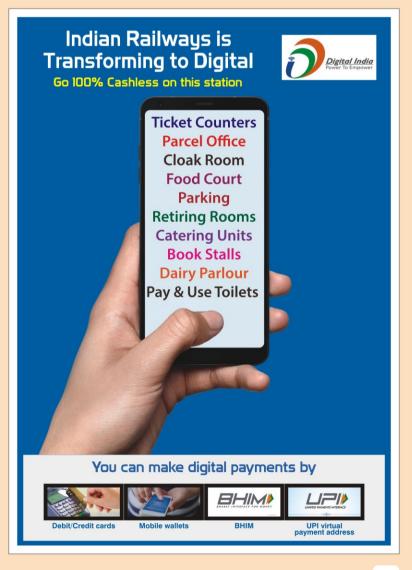


Electronic Train Charting Display System



Help Kiosk

- The IRCTC system capability improved by 3 times. The handling capacity enhanced to 1.20 lakh simultaneous internet users
- Free Wi-Fi service provided at 35 stations, 19 more stations to be covered in next 2 yrs.
- Coach Guidance system provided at 46 stations & 12 more to be provided soon.
- An innovative concept of Help Kiosk installed at Vadodara for facilitating static information regarding availability of various amenities at Vadodara station & other information regarding prime locations of Vadodara city



Development by Railways in Gujarat: 2014 - Present

Highest Priority to Safety

- 13 New Platforms provided, 20 Platforms have been extended & 14 Platforms have been raised for ensuring safety
- Platform Extensions will help increase coaches in trains and ease passenger movement
- Electronic Interlocking has been provided at 74 stations. To be provided at 19 more stations in 2018-19
- Electronic Interlocking System aids in ensuring Safety, improving punctuality & better train operations

Elimination of Level Crossings

All unmanned level crossings to be eliminated by 31st March, 2019

	ör. Io.	Particulars	Provided since April, 2014	Planned up to March 2019
	1	Road Over Bridges Constructed	43	43
	2	Road Under Bridges / Limited Height Subways Constructed	238	134
	3	Level Crossing Gates / Unmanned Level Crossings Closed	368	669
,	4	Unmanned Level Crossings provided with gates	109	



Photo for Representation Purposes Only

Speed increased in the construction of Road Over Bridges / Road Under Bridges





Development by Railways in Gujarat: 2014 - Present

Guarding the Environment through Eco-Friendly Initiatives

Security

Helpline

No.

- Okha Kanalus, Porbandar Wanasjaliya, Dhola Junction - Mahuva and Rajula Road - Rajula City sections have been commissioned as 'Green Corridors'
- 4,449 Bio toilets in 88 Trains
- 160 Toilet blocks & 66 'Pay & Use' toilets have been provided
- On Board Housekeeping Service (OBHS) facility is provided in 91 trains and cleaning contract has been covered in 229 trains
- Automation of 70% platform lighting based on signalling aspect operated by Home Signal / SM Slide Control completed at 129 stations
- LED bulbs provided at 562 stations making them 100% LED lit
- 172 KWp capacity solar plants have already been installed
- 7.5 MWp solar plants out of 14 MWp have been planned to be provided in Gujarat state with 25 years on PPP mode for non traction power supply loads at railway premises



Solar Plants at Rajkot



LED Lights installed at Makarpura Station

Boost to Security

- CCTV Cameras installed at 22 stations
- CCTV based surveillance system installed at Surat, Bhaktinagar, Rajkot, Ahmedabad, Viramgam, Mahesana, Palanpur, Bhuj, Gandhidham and Maninagar stations
- Integrated Security System to be provided at Surat, Ahmedabad, Vadodara & Godhra.
- Body cameras provided to RPF personnel at Ahmedabad station
- 1,037 Run away children rescued by RPF from 2014 to March, 2018



RPF Personnel Monitoring at the Control Room

Development by Railways in Gujarat: 2014 - Present

Station Cleanliness Drive

- Mechanized Cleaning at Ahmedabad, Viramgam, Gandhidham, Bhuj, Palanpur, Mahesana and Bhachau stations of Ahmedabad Division
- Focusing on Swachhata Abhiyaan, Cleanliness drive was conducted across various stations through the active participation of employees, NGOs, college students etc.
- Ahmedabad Station nominated as Clean Train Station
- CCTV Surveillance for cleaning activities at Ahmedabad Station



Participation of NGOs in Swachh Rail Swachh Bharat



Cleanliness Messages on the Platforms



एक कदम स्वच्छता की ओर स्वच्छ रेल, स्वच्छ भारत



Swachh Rail Swachh Bharat



Mechanised Cleaning at Ahmedabad station



High Pressure Jets Used for Cleaning

Development by Railways in Gujarat: 2014 - Present

Station Beautification

Beautification of stations with paintings reflecting the local ethos and flavour of the region by local artists at

- Rajkot Morbi Makansar Gandhidham
- Bhavnagar Terminus■ Junagadh■ Songadh■ Vadodara
 - AnkleshwarBharuchAnand











Development by Railways in Gujarat: 2014 - Present







New Station Building at Vadnagar



Development of Vadnagar station on Heritage circuit of Vadnagar - Modhera - Patan under Swadesh Darshan Scheme

• New station building constructed at Vadnagar station with a built-up and of 1,302 sq. mtr. and circulating area of 2,444 sq. mtr.



Driving Vision to Reality









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