



Roads & Buildings Department Second Gujarat State Highway Project

A World Bank Assisted Project

SAFETY
FIRST



ISSUE
16

SEP

2020

LEADS PROJECT NEWSLETTER

PROJECT DEVELOPMENT

OBJECTIVE

'Improve capacity, and enhance quality and safety of road services for the users of the core road network of state highways in Gujarat, through institutional strengthening and efficient contracting and financing strategies.'

A Civil Works

B Institutional Development

C Road Safety

Project Size :

387 m US\$

Duration :

2014-2020*

OVERALL PROJECT PROGRESS

Financial Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Project Duration									7 Years *
Till Date									6 Yr. 6 Mth.
Loan Amount									175 M USD
Disbursement Till Date									111 M USD#

* Restructured (Original + Extended Time) # As on September 2020



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SHOWCASE

SAFE CORRIDOR DEMONSTRATION PROJECT (SCDP)

Road safety is one of the most important components of GSHP-II, a World Bank assisted project. R&BD, GoG considered to develop safe corridors to demonstrate the multi-sectoral safety interventions for corridors with a target of achieving a minimum 3-star rating (iRAP Assessment). The corridors considered are: Bharuch - Dehgam and Gandhinagar - Koba - Indira Bridge. As the first safety demonstration project, Bharuch-Dehgam corridor is being successfully implemented. The safety interventions proposed under this corridor are replicated with innovative additions at Gandhinagar - Koba - Indira Bridge corridor which is now under implementation. The following section highlights major interventions for both the corridors.

1. Bharuch – Dehgam (SH-06) - After Implementation:

The interventions for this corridor were duly presented in GSHP-II LEADS Issue – 5&6, July-Dec, 2016. Currently, these have been implemented on this corridor and the proposed interventions accomplishing iRAP 3 + star rating for the corridor are presented below.

Junction Improvement:

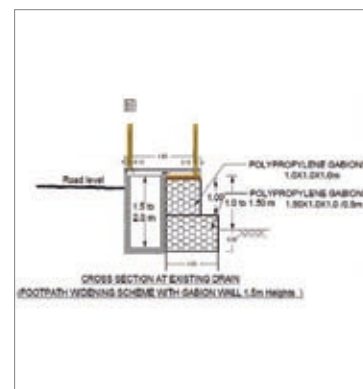
Junction redesign was done with traffic control measures like traffic channelization, colored pavement, night-time safety, traffic signages/signals etc.

Pedestrian Facility:

The project road before improvement had a narrow closed drain along the corridor with a 1.2 m top width. Hence, to utilise the top width of the closed drain as a footpath, a gabion wall structure has been proposed to widen it to a width of 1.8 m. This facility has been implemented on both the sides of the corridor with pedestrian railing as seen in the picture below.



Footpath before Improvement



Proposed Footpath





Gabion Work



Footpath on Gabion with Pedestrian Guard Rail

Pedestrian Push button System:

The corridor system design considered, Accessible Push Buttons (APB) to aide in crosswalks even for impaired pedestrians (Testing Stage).



Parking Facility:

An alternate parking facility has been provided for the motorists to refrain them from causing side friction.



Control Command Centre:

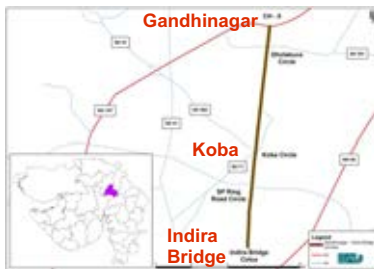
Control Command Centre is in place at Bharuch to operate/control/command various ITS Systems such as VMS, traffic signals and traffic violations.



2. SCDP – Under Implementation:

Gandhinagar-Koba-Indira Bridge (SH-71 & SH-43)

The second corridor selected for the demonstration of road safety intervention is Gandhinagar- Koba- Indira Bridge with a total length of 11.5 km. The proposed safety interventions in terms of civil works and ITS are :



Civil Work Interventions:

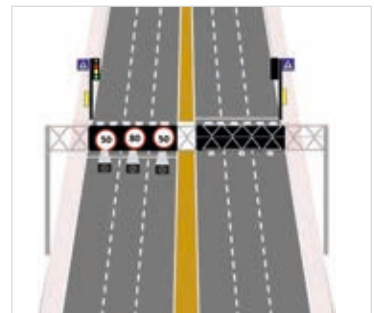
- Riding quality improvement with suitable corrective measures;
- Redesign Junction/access with control measures;
- Staggered and raised pedestrian crossings for pedestrian safety;
- Traffic sign installation;
- Traffic calming measures at accident prone zone with rumble strips;
- Median barrier (W-beam crash barrier);
- Provision of Road studs; Delineators; blinkers; 3D pavement markings and Coloured pavements for turning traffic;

- Provision of acceleration, deceleration and shelter lanes for junctions and Access roads;
- Provision of LED blinkers at critical locations;
- Bus stop with bus bays;
- Provision of pedestrian crossing;
- Provision of the footpath.

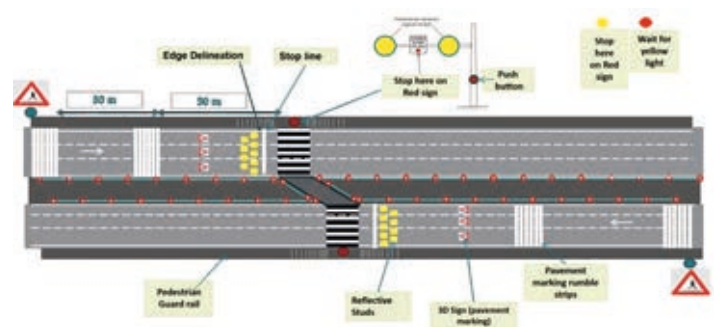


ITS Interventions:

- Infrastructure security management system;
- Wildlife Detection and warning system;
- Speed violation detection and warning system;
- Mobile VMS;
- Emergency Call box system;
- Incident management system;
- Parking violation;
- Variable message sign;
- Pedestrian push-button system;
- ATCC;
- Video management system.



Speed Regulating System



Pedestrian Crossing - marked Rumble Strips

The implementation of the above proposed safety interventions is in progress.

Team PMC

LEA Associates South Asia Pvt. Ltd.

STAKEHOLDER'S SPACE RODIC CONSULTANTS

Rodic Consultant in JV with TPF-Getinsa Euro Studios was awarded Authority Engineer Consultancy under GSHP-II for following packages:

AE - 1

Authority's Engineer for Upgradation / Rehabilitation of work contracts for Mehsana-Sidhpur, Sidhpur-Palanpur, Mehsana Bypass & Radhanpur – Chanasma on EPC mode under Second Gujarat State Highway Project (GSHP-II) having 4 EPC Packages - EPC-01A,01B,01C and 02.

AE - 2

Authority's Engineer for "Rehabilitation of Vallabhipur (Km 0+965) to Ranghola (Km 27 + 588) section of SH -39 on EPC mode under Second Gujarat State Highway Project (GSHP-II) having EPC Package -EPC-03.

AE - 3

Authority's Engineer for Rehabilitation/Reconstruction of work Contract EPC-04 Dhoridungri – Garasiyawada (km 0+000 to 12+338) section of VR/MDR & Lunawada- Garasiyawada (km 0+006 to 13+937) section of SH-63 under GSHP-II on EPC Mode in the state of Gujarat (GSHP-II) having EPC Package-EPC-04

AE Office Set up for Packages are:

- 1) AE-01-TL Cum RE Office (EPC-01C) at Mehsana
- 2) AE-01 -RE Office(EPC-01A) at Unjha
- 3) AE-01-RE Office (EPC-01B) at Palanpur
- 4) AE-01-RE Office (EPC-02) at Harij
- 5) AE-02-TL Cum RE Office (EPC-03) at Vallabhipur
- 6) AE-03-TL Cum RE Office (EPC-04) at Lunawada

EPC 1A - Mehsana - Sidhpur:



EPC 1B - Sidhpur-Palanpur:



EPC 1C - Mehsana bypass including RoB:



EPC02 - Radhanpur-Chanasma:



EPC 03 - Vallabhipur-Ranghola:



EPC 04 - Dhoridungri-Lunawada:



Workshop on Environmental safeguard and EMP Implementation:



Our Responsibilities:

To review and comment drawings as per schedules and codal provisions and to get work executed with specification and standards as specified in Contract i.e progress with quality and safety within the contract price and within stipulated period.

Our Achievements:

Deploying technical team within the specified period and provide technical assistance in design review. Getting works executed with all safety norms and as per the standard set forth in the contract with zero accidents as on date. This we are achieving by having a good working environment with the stakeholders.

Rodic Consultants Pvt. Ltd.

HIGHLIGHTS

CIVIL WORKS

- Project got impacted due to COVID-19. Work resumed on ground in April 2020.



ROAD SAFETY

- TA Road Safety Consultant working and regularly interacting with stakeholders.
- Notice to proceed issued for SCDP-2 civil works.

CONSULTANCIES

- IC actively contributing towards O&M-MH-DBFOMT.
- OPRC consultants actively involved in OPRC works.
- IDAP-1,2,3: Continued good progress on respective tasks.
- GujRAMS development is in progress.
- TA Road safety consultancy submitting task wise deliverable.
- Authority engineers (AE1,2,3) are mobilised and working on ground.

PROCUREMENT

- Integrated IT Application (SI): contract negotiation initiated.



INSTITUTIONAL DEVELOPMENT

- Efforts continued towards implementation of outcomes.
- Engineering Works Manual under approval at Water Resource Department (WRD).
- Road Sector Policy publication process initiated.
- ESC-01 civil works: implementation is in progress.



PROGRESS

CIVIL WORKS

EPC - 1A

Mehsana - Sidhpur

Ranjit Buildcon Ltd.



EPC - 03

Vallabhipur-Ranghola

Kalthia Engineering & Construction Ltd.



EPC - 1B

Sidhpur-Palanpur

Ranjit Buildcon Ltd.



EPC - 04 (NCB2B)

Dhoridungri-Lunawada

Shiwalay Infra Projects Pvt. Ltd.



EPC - 1C

Mehsana bypass including RoB

Perfect Infracorp Pvt. Ltd.



OPRC CIVIL WORKS

Dhandhuka - Dholera, Dhandhuka - Paliyad and Limbdi - Dhandhuka

Prakash Asphaltting & Toll Highways (India) Ltd.



EPC - 02

Radhanpur-Chanasma

Perfect Infracorp Pvt. Ltd. JV Anish Infracorp India Pvt. Ltd.



CONSULTANCIES (Fees Disbursed)

AE - 01

TPF Getinsa Euroestudios S.L., Spain in JV with Rodic Consultants Pvt Ltd, India



IDAP/GAAP/1

LEA Associates South Asia Pvt. Ltd.



INTERNAL AUDITOR

Agarwal & Dhandhania



AE - 02

TPF Getinsa Euroestudios S.L., Spain in JV with Rodic Consultants Pvt Ltd, India



IDAP/GAAP/2

ICT in JV with PWC



OPRC

Feedback Infra Pvt. Ltd. in J.V. with DMEC, Korea



AE - 03

TPF Getinsa Euroestudios S.L., Spain in JV with Rodic Consultants Pvt Ltd, India



IDAP/GAAP/3

Deloitte Touche Tohamatsu India Pvt. Ltd. in JV with CEG Ltd.



PMC

LEA Associates South Asia Pvt. Ltd.



GujRAMS

SATRA Infra Management Services Pvt. Ltd., India JV HIMIS Ltd. N.Zealand and ICT Pvt. Ltd.



IE(MH)

Sheladia Associates INC



TA-RS

SWEROAD, Sweden in JV with SAI, India association with Sherwood (Sub-Consultant)



PHY = Physical Progress, FIN = Financial Progress (Civil Works), Fees Disbursed (Consultancy). Progress as on September 2020 end.

WAY FORWARD

- Expedition of OPRC civil works and EPC contracts.
- Finalisation of pre-investment studies.
- Active involvement of authority engineers in EPC contracts and implementation with COVID-19 prevention protocol.
- Goods and equipment procurement.
- Procurement completion of system integrator.

PROJECT CONTACT

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"Good does not triumph unless good people rise to the challenge that is around them."

~ Alister McGrath

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