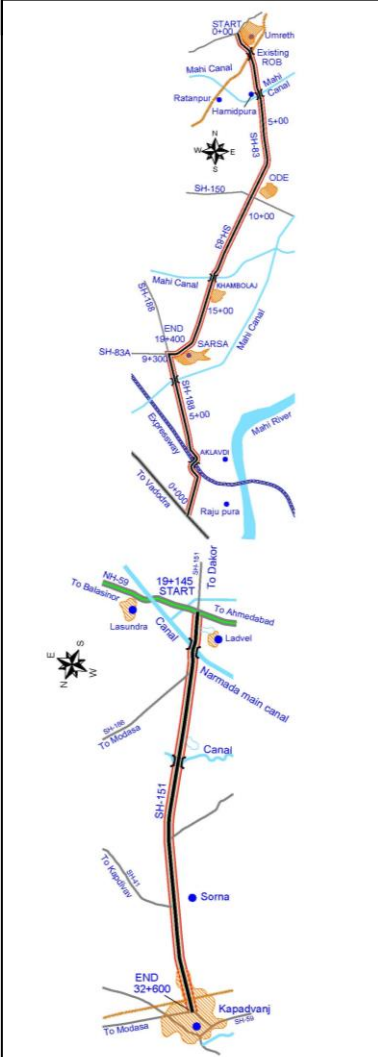


# ROADS AND BUILDINGS DEPARTMENT GOVERNMENT OF GUJARAT

## Gujarat State Highway Project - II



### Volume-V:

### Resettlement Action Plan (RAP) (UMRETH – VASAD, LADVEL – KAPADVANJ)

19<sup>th</sup> July, 2013

# VOLUME-V RESETTLEMENT ACTION PLAN

## CONTENTS

<b>A.</b>	<b>EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>1.</b>	<b>INTRODUCTION.....</b>	<b>7</b>
1.1	PROJECT BACKGROUND.....	7
1.2	PROJECT CORRIDOR.....	7
1.3	RESETTLEMENT ACTION PLAN: OBJECTIVES.....	8
1.4	RIGHT OF WAY AND CORRIDOR OF IMPACT .....	9
1.5	REPORT STRUCTURE.....	10
<b>2.</b>	<b>LEGAL AND POLICY FRAMEWORK .....</b>	<b>11</b>
2.1	RESETTLEMENT POLICY FRAMEWORK.....	11
2.2	ENTITLEMENT MATRIX.....	12
<b>3.</b>	<b>SOCIO-ECONOMIC PROFILE OF THE PROJECT AREA .....</b>	<b>19</b>
3.1	SOCIO-ECONOMIC PROFILE .....	19
<b>4.</b>	<b>IMPACTS ON PEOPLE AND COMMUNITY ASSETS .....</b>	<b>21</b>
4.1	MINIMISATION OF RESETTLEMENT IMPACTS.....	21
4.2	POTENTIAL IMPACTS .....	21
4.3	CUT-OFF DATE .....	22
4.4	OVERVIEW OF DESIGN MODIFICATIONS.....	22
4.5	IMPACT ON PROPERTIES .....	24
4.6	SOCIO-ECONOMIC PROFILE OF AFFECTED POPULATION .....	25
<b>5.</b>	<b>STAKEHOLDER CONSULTATIONS.....</b>	<b>28</b>
5.1	CONSULTATION.....	28
5.2	OUTCOMES OF CONSULTATIONS .....	28
<b>6.</b>	<b>OTHER SOCIAL ISSUES.....</b>	<b>30</b>
6.1	ROAD SAFETY ISSUES.....	30
6.2	HIV/AIDS ISSUES .....	30
6.3	GENDER PLAN.....	30
<b>7.</b>	<b>IMPLEMENTATION ARRANGEMENTS .....</b>	<b>32</b>
7.1	INSTITUTIONAL ARRANGEMENTS FOR THE PROJECT.....	32
<b>8.</b>	<b>RESETTLEMENT BUDGET.....</b>	<b>44</b>

## List of Tables

Table 2-1: Entitlement Matrix .....	12
Table 4.1: Potential Resettlement Impacts .....	21
Table 4.2: Design Interventions to minimize / avoid resettlement impacts .....	22
Table 4-3: Distribution of Properties having Major and Minor Impacts .....	24
Table 4-4: Distribution of Impacted Properties by Type of Loss .....	24
Table 4-5: Type of Structures .....	25
Table 4-6: Type of Assets (Impacted within the affected portion of Properties) .....	25
Table 4-7: Impacted Cultural Structures .....	25
Table 4-8: Distribution of Vulnerable Group .....	26
Table 4-9: Age Distribution of Affected Households .....	26
Table 4-10: Education Profile of Project Affected Persons .....	26
Table 4-11: Occupation Profile of Project Affected Persons .....	26
Table 4-12: Income Distribution of Project Affected Households .....	26
Table 5-1: Details of Consultation .....	28
Table 5-2: Outcomes of Consultation and Integration into Project Design .....	28
Table 7-1: Monitoring Indicators for Physical Progress .....	36
Table 7-2: Monitoring Indicators for Financial Progress .....	36
Table 7-3: Monitoring of Grievance Redress .....	36
Table 7-4: Evaluation Indicator .....	36
Table 7.5: RAP Implementation Schedule .....	43
Table 8-1: RAP Budget .....	44
Table 8-2: Compensation for Land .....	44
Table 8-3: Compensation for Structure .....	44
Table 8-4: Compensation for other Assets .....	45
Table 8-5: R&R Assistance .....	45

## List of Figures

Figure 1.1: Umreth-Vasad (including Ladvel-Kapadvanj) Corridor .....	8
Figure 1.2: Corridor of Impact .....	9
Figure 4.1: Impacted structures within existing RoW .....	23
Figure 4.2: Impacted structures with Mitigation measures .....	23
Figure 7.1: Implementation Arrangements .....	33
Figure 7-2: Grievance Redress Mechanism .....	38

## List of Appendices

Appendix 1.1: Chainage-wise details of proposed treatment
Appendix 3.1: Socioeconomic profile of project corridor villages and talukas
Appendix 4.1: Census and Socio Economic Survey Questionnaire
Appendix 4.2: List of Impacted Properties and Structures
Appendix 4.3: GIS Map Representing Impacted Properties
Appendix 5.1: Consultation Format: Community Consultation - Discussion Guide

## List of Abbreviations

---

AAGR	-	Average Annual Growth Rate
AIDS	-	Acquired Immune Deficiency Syndrome
BPL	-	Below Poverty Line
CoI	-	Corridor of Impact
ESMU	-	Environmental and Social Management Unit
FGD	-	Focused Group Discussion
GoG	-	Government of Gujarat
GSACS	-	Gujarat State Aids Control Society
GSHP	-	Gujarat State Highways Project
GWSSB	-	Gujarat Water Supply and Sewerage Board
Ha	-	Hectare
HH	-	Household
HIV	-	Human Immunodeficiency Virus
HPP	-	HIV/AIDS Prevention Plan
Km	-	Kilometre
LA	-	Land Acquisition
LASA	-	LEA Associates South Asia Pvt. Ltd.
LHS	-	Left Hand Side
MDR	-	Major District Road
M&E	-	Monitoring and Evaluation
NGO	-	Non-Governmental Organization
NRRP	-	National Rehabilitation and Resettlement Policy
OBC	-	Other Backward Classes
OP	-	Operational Policy
PAF	-	Project Affected Family
PAP	-	Project Affected Person
PIU	-	Project Implementation Unit
R&BD	-	Roads and Buildings Department
R&R	-	Resettlement and Rehabilitation
RAP	-	Resettlement Action Plan
RHS	-	Right Hand Side
RoW	-	Right of Way
RPF	-	Resettlement Policy Framework
SC	-	Scheduled Caste
SH	-	State Highway
SIA	-	Social Impact Assessment
sq.m	-	Square Meter
ST	-	Scheduled Tribe
WHH	-	Woman Headed Household
WPR	-	Workforce Participation Ratio

## Terms and Definitions

- a. **Agricultural land** means land being used for the purpose of: (i) agriculture or horticulture; (ii) raising of crops, grass or garden produce; and (iii) land used by an agriculturist for the grazing of cattle, but does not include land used for cutting of wood only;
- b. **Assistance** refers to the support provided to PAPs in the form of ex-gratia payments, loans, asset services, etc. in order to improve the standard of living and reduce the negative impacts of the project.
- c. **Below poverty line or BPL Family** means below poverty line families as defined by the Planning Commission of India, from time to time, and those included in the State BPL list in force.
- d. **Compensation** refers to the amount paid under Consent Award as part of The Land Acquisition Act, 1894. For private property, structures and other assets acquired for the project, it refers to the amount as given in the Entitlement Matrix for the project.
- e. **Cutoff Date:** the date of Notification under Section 4(1) of Land Acquisition Act, 1894 shall be the cutoff date where the land acquisition will be required. For non-titleholders the date of census survey shall be considered as the cutoff date.
- f. **Encroachers** are those person/family, who transgresses into the public land (prior to the cut-off date), adjacent to his/her own land or other immovable assets and derives his/her additional source of shelter/livelihood.
- g. **Family** includes a person, his or her spouse, minor sons, unmarried daughters, minor brothers, unmarried sisters, father, mother and other relatives residing with him or her and dependent on him or her for their livelihood; and includes “nuclear family” consisting of a person, his or her spouse and minor children.
- h. **Government** refers to the Government of Gujarat.
- i. **Land acquisition** means acquisition of land under the Land Acquisition Act, 1894, as amended from time to time.
- j. **Marginal farmer** means a cultivator with an unirrigated land holding up to one hectare or irrigated land holding up to half hectare;
- k. **Non-Perennial Crop:** Any plant species, either grown naturally or through cultivation that lives for a season and perishes with harvesting of its yields has been considered as a non-perennial crop in the project. For example, paddy, sugarcane, groundnut, etc.
- l. **Notification** means a notification published in the Gazette of India, or as the case may be, the Gazette of State;
- m. **Perennial Crop:** Any plant species that live for years and yields its products after a certain age of maturity is a perennial crop. Generally trees, either grown naturally or by horticultural and yield fruits or timber have been considered as perennial crop in the project. For example, tamarind, coconut, mango, etc. are perennial crops.
- n. **Project Affected Family (PAF)** means- (i) a family whose primary place of residence or other property or source of livelihood is adversely affected or involuntarily displaced by the acquisition of land for the project (ii) any tenure holder, tenant, lessee or owner of other property, who on account of acquisition of land in the affected area of otherwise, has been involuntarily displaced from such land or other property; (iii) any agricultural or non-agricultural labourer, landless person (not having homestead land or agricultural land) rural artisan, small trader or self-employed person; who has been residing or engaged in any trade, business, occupation or vocation in the affected area, and who has been deprived of earning his livelihood or alienated wholly or substantially from the main source of his trade, business, occupation or vocation because of the acquisition of land in the affected area or being involuntarily displaced for any other reason.
- o. **Project Affected Household (PAH):** A social unit consisting of a family and/or non-family members living together, and is affected by the project adversely and/or positively.
- p. **Project Affected Persons (PAPs),** any persons who have economic interests or residence within the project impact corridor and who may be adversely affected directly by the project. PAP include those losing commercial or residential structures in whole or part, those losing agricultural land or homestead land in whole or part, and those losing income sources as a result of project action. PAPs would be of two broad categories, ‘PAPs with Major Impact’ and ‘PAPs with Minor Impact’.
- a. **Major Impact:** those properties where the major part of the structure/land is affected and becomes untenable and the affected party is unable to live/do business in the unaffected portion of the property, OR, 25% or more portion of the property is affected.
- b. **Minor Impact:** all other impacts other than major impact will be treated as minor impacts, OR, those properties where a part of the structure/land is acquired and the remaining portion is intact and the affected party can continue to live/do business in the unaffected portion of the property.

q. **Replacement Cost** of the acquired assets and property is the amount required for the affected household to replace/reconstruct the lost assets through purchase in the open market. Replacement cost will be calculated at R&BD current Schedule of Rates without depreciation. Replacement cost shall be in line with the provisos of the Entitlement Matrix of the project.

r. **Small farmer** means a cultivator with an un-irrigated land holding upto two hectares or with an irrigated land holding upto one hectare, but more than the holding of a marginal farmer.

s. **Squatter** means a person/family that has settled on the public land without permission or has been occupying public building without authority prior to cut-off date and is depending for his or her shelter or livelihood and has no other source of shelter or livelihood.

t. **Tenants** are those persons having bonafide tenancy agreements, written or unwritten, with a private property owner with clear property titles, to occupy a structure or land for residence, business or other purposes.

u. **Vulnerable Persons:** persons who are physically challenged, widows, persons above sixty years of age, below-poverty line households and woman-headed household.

v. **Woman-Headed Household:** A household that is headed by a woman who is the major bread-earner of the household. This woman may be a widow, separated or deserted person.

## A. EXECUTIVE SUMMARY

### Background

Government of Gujarat (GoG) has taken up the second Gujarat State Highway Project (GSHP-II), covering up-gradation, maintenance and improvement of identified core road network for loan appraisal with the World Bank. Roads and Buildings Department (R&BD), GoG, has retained M/s LEA Associates South Asia Pvt. Ltd. (LASA) as Project Preparatory Works Consultants to prepare plans on widening and upgradation of highways including the assessment of social impact, preparation of Resettlement Action Plan (RAP), and Indigenous Peoples Development Plan (IPDP). R&BD has selected nine corridors, aggregating to 394.465 km length for preparation of detailed project report for inclusion in the first phase of the project. As part of the project preparation, Social Impact Assessment (SIA) has been undertaken for the proposed roads. This RAP is based on the findings of SIA carried out in Umreth - Vasad (including Ladvel-Kapadvanj) corridor and is in line with Resettlement Policy Framework (RPF) of the project.

### Corridor Description

The total length of the project corridor of Umreth - Vasad (including Ladvel-Kapadvanj) is 41.905 km with RoW of 24m. The project corridor has three sections namely Umreth to Sarsa (km 0+000 to km 19+138), Vasad to Sarsa (km 0+000 to km 9+184) and Ladvel Jn to near Kapadvanj (km 19+125 to km 32+067). The proposed treatment is upgradation of the corridor to two-lane with paved shoulder, except for six settlement stretches where four-lane with paved shoulder is proposed.

### Resettlement Action Plan: Objectives

The RAP is prepared to ensure that the affected persons are: (i) informed about their options and rights pertaining to resettlement; (ii) consulted, provided with technically and economically feasible resettlement alternatives and offered choices among them; (iii) provided prompt and effective compensation at full replacement cost for loss of assets caused due to the project; (iv) provided assistance (such as shifting allowance, transition allowance, etc.) during relocation and for a transition period, to restore their livelihood and standards of living; and, (v) provided with skill development assistance such as training, in addition to compensation. The Objectives of RAP are:

- To identify adverse impacts and determine mitigation measures;
- To present the entitlements and action plan for the affected persons for payment of compensation and assistance for restoring livelihoods, and improving or at least retaining the living standards in the post resettlement period.

## Right of Way and Corridor of Impact

The existing RoW along the corridor is 24 m. Using available RoW records with the R&BD and Revenue Department, the social team verified the boundaries of private properties within and in the vicinity of potential corridor of impact (CoI)<sup>1</sup> because in the present context, impacts have been assessed up to the CoI. The CoI varies from 16m for two-lane sections to 19.5 m for four-lane sections. Adopting the CoI approach, the impacts on land and other assets have been minimized, within acceptable design principles and standards. Development within available RoW has been considered, wherever feasible, for avoiding or minimizing impact on residential and commercial structures, water-yielding wells, schools, religious structures and agricultural land. The proposed treatment has minimal impact on land and structures.

## Resettlement Policy Framework

Resettlement Policy Framework (RPF) has been formulated based on the applicable and relevant laws relating to the project and also based on the bank OP 4.12 on involuntary resettlement. RPF suggests avoiding or minimizing adverse impacts by exploring all viable alternative project design. The core principles of RPF are as follows:

- Entitlements for project affected persons to cover the loss of land, structures and other assets, such as standing crops or trees. The broad categorisation of affected persons is (i) Titleholders; and (ii) Non-titleholders.
- The vulnerable sections among each of the above categories will receive additional support.
- Compensation for land at replacement cost, plus allowances for fees or other charges will be provided along with other assistances. Land will be acquired following Land Acquisition Act, 1894 and its amendments. The difference between the land cost decided as per LA Act and the updated Jantri values for the specific land parcel to be acquired will be paid by the project in the form of assistance.
- Compensation for residual unviable land parcels will be provided to those affected persons who are eligible and opting for the same.
- Compensation for loss of structures, other assets will be provided at replacement cost and will be paid before physical displacement from the occupied or affected area.
- Assistance will be provided to those affected persons who lose their livelihood due to the acquisition carried out as part of the project.
- Cut-off date for titleholders will be the date of publication of notification under Section 4(1) of Land Acquisition Act, 1894. For non-titleholders, the date of project census survey or a similar designated date declared by project authority will be considered as cut-off date.
- The households/land owners who are absent during the time of census survey will be entitled for assistance and budget provisions will include them also. However, people moving to the CoI after the cut-off date will not be entitled for any compensation or assistance.
- Loss of common property resources will be compensated and reconstructed at project cost. Enhancement measures also will be provided for community assets located alongside the project corridor in consultation with the community.

---

<sup>1</sup> The Right of Way (RoW) is the lawfully acquired corridor of public land owned by the State Government and administered by R&BD for transit. The CoI is the width required for the actual construction of road, including carriageway, shoulder and embankments.



**Cut-off Date**

Cutoff date for non-titleholders is 3rd may 2012. The cut-off date for titleholders is the date of Section 4(1) notification as per LA Act, 1894.

**Impact on Land and Structures**

Census and socio-economic surveys were conducted along the proposed project stretch, considering the CoI varies from 16m for two-lane sections to 19.5 m for four- lane sections. Minimum acquisition and disturbance to the existing features is the prime objective of design. Impacts on sensitive features and settlement areas is minimised through realignment, and CoI approach.

**Land Acquisition:** A total of 0.19 ha of private agricultural land of 6 households (titleholders) will be acquired for the proposed improvement. The additional land will be required for the geometric improvement of curves at 2 locations – km 3+052 to km 3+232 (RHS) and km 3+331 to km 3+490 (LHS) in Hamidpura village of Umreth Taluka in the district of Anand. Government will not be affected due to the project. Land acquisition and resettlement of the affected persons shall be carried out in accordance with the provisions of the Resettlement Policy Framework of the project. The project will not affect any government land.

**Categories of Impact:** In addition to the agriculture land of 6 households, the proposed road improvement will also impact 32 commercial properties. Out of the total 40 project affected households, 6 households are titleholders (agricultural lands), 30 households are squatters (Commercial) and 4 households are encroaches (including 2 commercial, 1 farm house and 1 open land). Other assets located within affected portion of properties are 18 private trees.

**Impact on Cultural Properties and Community Assets:** Cultural properties and community assets affected due to proposed improvement includes built up structure of a shrine (at km 1+825) and a temple (at km 9+130) which is located along Vasad-Sarsa section of the proposed corridor.

**Socio-Economic Profile**

Total number of PAHs are 40 wherein 10 are titleholders (TH) and remaining 30 are non-titleholders (NTH). Total 40 PAHs comprises 202 PAPs (based on the household size). Vulnerable groups of affected household are 9 (in which 3 ST, 4BPL and 2 is headed by aged person of above 60 years old).

**Public Consultations**

Five public consultation meetings were held along the project corridor with road side communities to obtain their views and suggestions regarding the proposed project interventions. The consultations have provided inputs towards mitigation of impacts, improvement in designs, and preparation of resettlement plan and its implementation. Based on the suggestions design modifications including curve improvement, provision of road safety measures such as pedestrian crossings, warning signs, markings, etc has been carried out.

## Implementation Arrangement

**Environmental and Social Management Unit (ESMU):** The Chief Engineer at PIU will be overall head of the project. An ESMU will be set up by R&BD within the PIU to look into the social and environmental aspects of the project and will have overall responsibility for policy guidance, coordination and planning, internal monitoring and overall reporting.

ESMU will be headed by an officer of the rank of Executive Engineer (EE), and will be responsible for all activities related to resettlement and rehabilitation. Chief Engineer (World Bank Projects) will be assisted by Superintending Engineer (SE). The EE will be assisted by an Environmental Specialist and a Social Specialist. ESMU will be housed in R&BD headquarters in Gandhinagar. One each Executive Engineers at field divisions<sup>2</sup> will be responsible for E&S activities.

## Implementation Support by NGO

RAP will be implemented by the ESMU with support from a Non-Governmental Organisation (NGO) which will be selected as part of the project. The roles and responsibilities of NGO are summarized as follows:

- Explain to PAPs about the potential adverse impacts and proposed mitigation measures and, R&R entitlements;
- Distribute the dissemination materials including pamphlets on RAP and other aspects;
- Facilitate ESMU in organizing public information campaign at the commencement of R&R activities;
- Prepare the micro plans;
- Participate in the meetings organized by ESMU;
- Provide support for implementation of RAP;
- Prepare and issue identity cards to identified PAFs;
- Facilitate opening of joint bank accounts (PAPs and his/her spouse) for individual PAPs;
- Assist PAPs in receiving compensation, focusing on vulnerable PAPs to ensure that they get their dues on time;
- Generate awareness about the productive use of compensation money and R&R grants;
- Explain the resource base and other opportunities to enable them to make informed choices and participate in their own development;
- Ensure that vulnerable PAPs are given their dues both for payment of compensation and rehabilitation assistance;
- Submit monthly progress reports to ESMU;
- Identify training needs of PAPs for income generating activities and ensure they are adequately supported during the post-training period on respective income generating activities, and,
- Ensure that the grievances and problems faced by PAPs are presented to the Grievance Redress Committee for their resolution.

---

<sup>2</sup> The Field Divisions of R&BD are located at Rajkot, Mehsana and Vadodara.

### Grievance Redress Mechanism

A Grievance Redress Committee (GRC) at the district level will be constituted to hear the complaints of project affected persons and resolve the same. The process will promote settlement of disputes and reduce litigation. GRC will be set up at the district level with District Collector as head. The following persons will be the members of GRC:

- District Collector or his designated representative of at least the rank of Assistant District Collector (preference would be given to women officers);
- The District Development Officer of the Department of Revenue;
- The Executive Engineer, PIU;

GRC will be responsible for the following: (i) Support PAPs in resolving issues related to R&R and LA; (ii) Record grievance and resolve them within stipulated time; (iii) Inform PIU about any serious cases; and (iv) Report to the aggrieved parties about the decisions of the PIU.

### Monitoring and Evaluation

Internal monitoring of the implementation of social safeguards will be carried out by the PIU with support of Project Management Consultant/Supervision Consultant. Towards enhancing the quality of RAP/IPDP implementation, in addition to the internal monitoring by the PIU, external monitoring will be done by a third-party agency or Project Management Consultant (PMC) for technical as well as environmental/social aspects.

### Public Consultation and Disclosure

In order to make the RAP implementation process transparent, a series of public disclosure meetings will be arranged. The RAP Executive Summary, translated in Gujarati language will be disclosed through public consultations and will also be made available through GSHP Website (<http://gshp2.gujarat.gov.in>).

### RAP Implementation Schedule

The construction tenure of the corridor is 24 months<sup>3</sup>. The on-ground rehabilitation and resettlement exercises and handing over the encumbrance free stretch for civil works will take 5 months and afterwards, the NGO will carry out awareness programmes on road safety, HIV/AIDS prevention campaign, repeat training for PAPs, facilitate overall monitoring, etc.

**Table: RAP Implementation Schedule: Major Activities**

Sl. No.	Major Activities	Months
1.	NGO in place	1 <sup>st</sup> month
2.	GRC in place	2 <sup>nd</sup> month
3.	Information campaign and community consultation	2 <sup>nd</sup> month onwards till 24 <sup>th</sup> month [on 6-month interval]
4.	Compensation / R&R / Clearance of CoI	2 <sup>nd</sup> month onwards – to complete by 5 <sup>th</sup> month

<sup>3</sup> The construction tenure of individual corridors ranges from 18 months to 30 months spread across an overall period of 36 months and accordingly, R&BD has envisaged tenure of 36 months for the RAP implementing NGO.

Sl. No.	Major Activities	Months
5.	Awareness on Road Safety	3 <sup>rd</sup> month onwards – every alternate month till 24 <sup>th</sup> month
6.	External monitoring	2 <sup>nd</sup> month onwards – every 6 month till 24 <sup>th</sup> month

### Resettlement Budget

The resettlement budget include components such as compensation for land, compensation for structure (private property, cultural property and community assets), R&R assistance and contingency to cover unforeseen / unanticipated costs. The estimated total budget for the implementation of RAP for the corridor is INR 3.02 million (Table).

Apart from this, an amount of INR 29.6 million is earmarked for cost of trainings, RAP implementing NGO, monitoring and evaluation, awareness programmes on road safety, HIV/AIDS awareness, etc., for all the project corridors to be taken up in the first phase. Escalation of these components have been considered at an annual inflation rate of 7% based on consumer price index and the escalated amount for Year-I is INR 31.7 million and for Year-II, the amount is INR 33.9 million.

# 1. INTRODUCTION

---

## 1.1 PROJECT BACKGROUND

1. Government of Gujarat (GoG) has taken up the second Gujarat State Highway Project (GSHP-II), covering up-gradation, maintenance and improvement of identified core road network for loan appraisal with the World Bank. Roads and Buildings Department (R&BD), the responsible body for managing the project, has retained M/s LEA Associates South Asia Pvt. Ltd. (LASA) as Project Preparatory Works Consultants to prepare pertinent plans on widening and upgradation of highways including the assessment of social impact, preparation of Resettlement Action Plan (RAP) and Indigenous Peoples Development Plan (IPDP). As a pre-requisite towards loan appraisal with the World Bank, R&BD has selected nine corridors, aggregating to 394.465km length for detailed project report (DPR) preparation. As part of DPR preparation, Social Impact Assessment (SIA) has been undertaken for the proposed roads.

2. The total corridor length is 41.905 km with an existing RoW of 24m. The existing narrow two-lane corridor is proposed to widen to a standard two-lane facility with paved shoulder, except for six locations where the treatment proposed is four-lane. Chainage-wise details of proposed treatment are given in Appendix 1.1. Cross-sections are designed accommodating the proposed road improvement within the available RoW, avoiding land acquisition to the extent possible.

3. This report presents the RAP, prepared based on the finding of SIA carried out along the Umreth-Vasad (including Ladvel-Kapadvanj) corridor and is in line with Resettlement Policy Framework (RPF) of the project.

## 1.2 PROJECT CORRIDOR

4. The project corridor Umreth-Vasad (including Ladvel-Kapadvanj) has three sections Umreth to Sarsa (km 0+000 to km 19+300), Vasad to Sarsa (km 0+000 to km 9+200) and Ladvel Jn to near Kapadvanj (km 18+400 to km 32+000). The total length of the proposed corridor is 41.905 km. The corridor includes two State highways (SH-083 and SH-188) covering a length of 28.7 km and connect Umreth with Vasad. Ladvel – Kapadvanj (13.45 km) is an additional link to the present corridor.

5. The corridor passes through two districts of Anand and Kheda. The Umreth-Vasad stretch passes through talukas of Umreth and Anand in Anand district and Ladvel - Kapadvanj is within the Kapadvanj taluka of Kheda district.

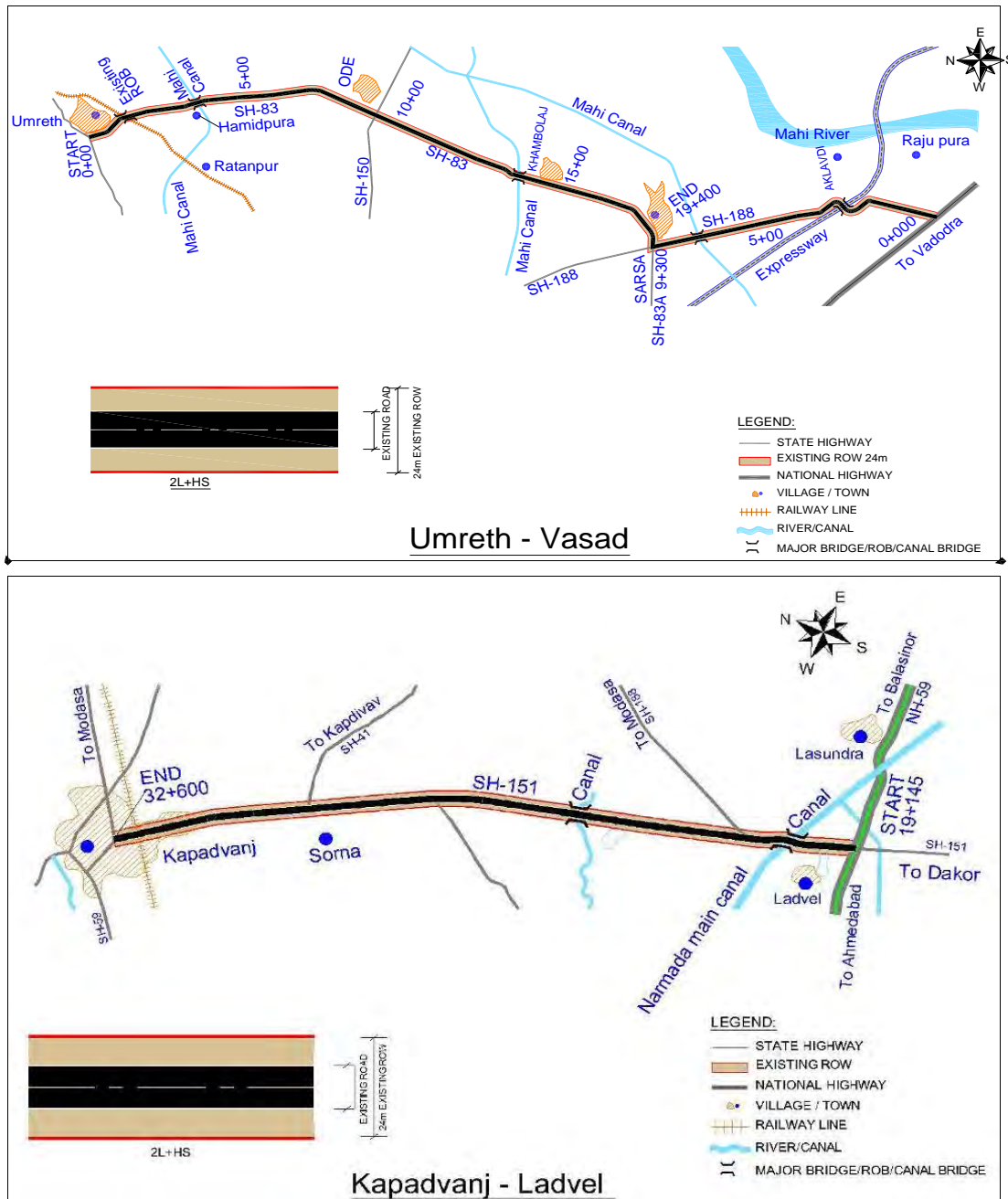


Figure 1.1: Umreth-Vasad (including Ladvel-Kapadvanj) Corridor

### 1.3 RESETTLEMENT ACTION PLAN: OBJECTIVES

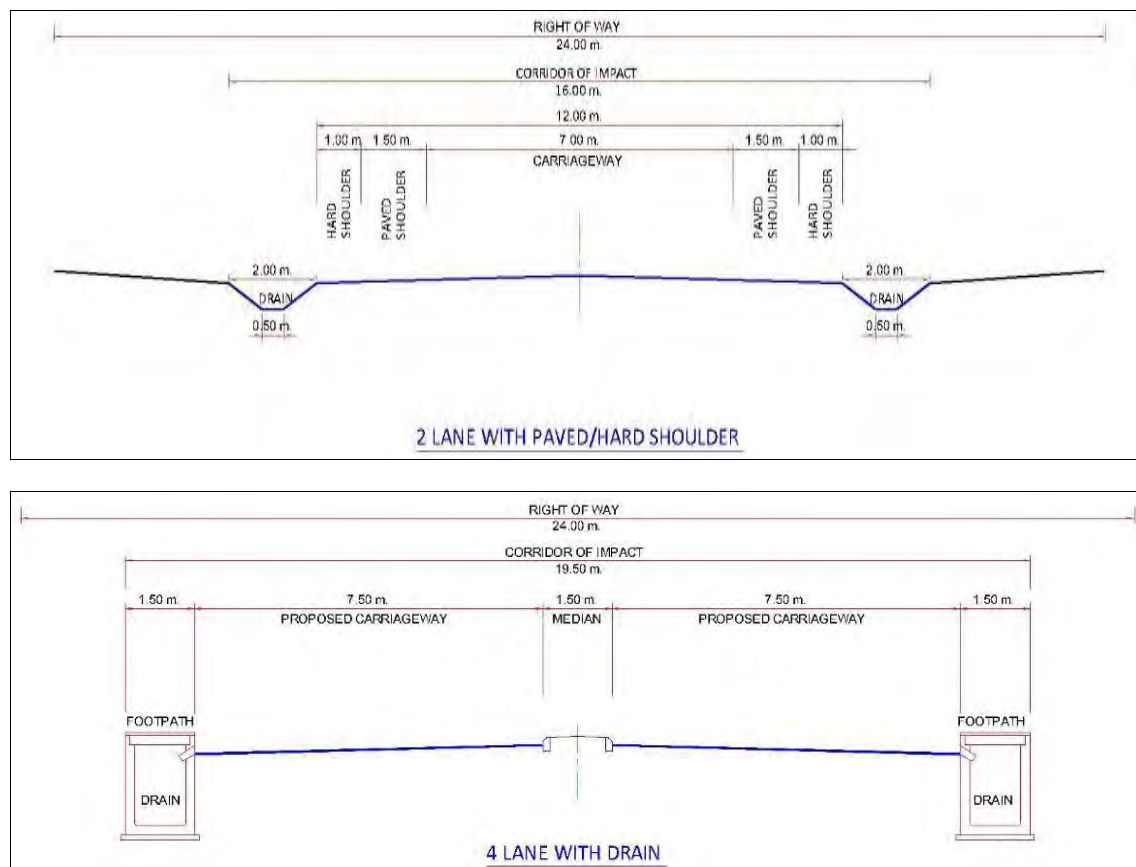
6. The RAP is prepared to ensure that the affected persons are: (i) informed about their options and rights pertaining to resettlement; (ii) consulted, provided with technically and economically feasible resettlement alternatives and offered choices among them; (iii) provided prompt and effective compensation at full replacement cost for loss of assets caused due to the project; (iv) provided assistance (such as shifting allowance, transition allowance, etc.) during relocation and for a transition period, to restore their livelihood and standards of living; and, (v) provided with skill development assistance such as training, in addition to compensation. The objectives of RAP are:

- To identify adverse impacts and determine mitigation measures;

- To present the entitlements and action plan for the affected persons for payment of compensation and assistance for restoring livelihoods, and improving or at least retaining the living standards in the post resettlement period.

## 1.4 RIGHT OF WAY AND CORRIDOR OF IMPACT

7. The existing RoW along the corridor is 24 m. Using available RoW records with the R&BD and Revenue Department, the social team verified the boundaries of private properties within and in the vicinity of potential corridor of impact (CoI)<sup>4</sup> because in the present context, impacts have been assessed up to the CoI. The CoI varies from 16m for two-lane sections to 19.5 m for four-lane sections (Figure 1.2).



**Figure 1.2: Corridor of Impact**

8. Adopting the CoI approach, the impacts on land and other assets have been minimized, within acceptable design principles and standards. Development within available RoW has been considered, wherever feasible, for avoiding or minimizing impact on residential and commercial structures, water-yielding wells, schools, religious structures and agricultural land. The proposed treatment has minimal impact on land and structures.

<sup>4</sup> The Right of Way (RoW) is the lawfully acquired corridor of public land owned by the State Government and administered by R&BD for transit. The CoI is the width required for the actual construction of road, including carriageway, shoulder and embankments.

## 1.5 REPORT STRUCTURE

9. The present RAP document has been structured into the following chapters:
- **Chapter 1 - Introduction:** details about the proposed project, rationale and objectives of RAP;
  - **Chapter 2 - Legal and Policy Framework:** provides an overview of the RPF and also gives details about affected categories of project and the Entitlement Matrix;
  - **Chapter 3 - Socio Economic Profile of the Project Area:** describes socio-economic profile of the project area, and a brief account of scheduled caste and scheduled tribe population;
  - **Chapter 4 - Impact on People and Community Assets:** presents the nature and extent of impact on various properties alongside the corridor and the socio-economic profile of the affected population;
  - **Chapter 5 - Stakeholder Consultations:** key outcomes of consultations carried out along the corridor and the ways in which the concerns and suggestions of the community were integrated into the project design are presented;
  - **Chapter 6 – Other Social Issues:** provides details of issues related to gender, road safety and HIV/AIDS; and
  - **Chapter 7- Implementation Arrangements:** describes the institutional arrangement for the smooth implementation of RAP and the roles and responsibilities of various officials.
  - **Chapter 8 - Resettlement Budget:** the compensation for affected land and structures, other assets (trees, water tap, and gate), and R&R assistance as per the Entitlement Matrix.



## 2. LEGAL AND POLICY FRAMEWORK

---

### 2.1 RESETTLEMENT POLICY FRAMEWORK

10. Resettlement Policy Framework (RPF) has been formulated based on the applicable and relevant laws relating to the project and also based on the bank OP 4.12 on involuntary resettlement. The RPF intends to ensure that the principles and procedures set forth in compliance with national and international policy guidelines are followed. This framework will guide in the effective management of social impacts caused by the proposed project. The RPF is based on the principle that affected persons should be in a better-off position or at least at the same level as compared to the pre-project scenario. RPF ensures greater acceptability of the project among the community and is expected to facilitate effective communication.

- Entitlements for project affected persons to cover the loss of land, structures and other assets, such as standing crops or trees. The broad categorization of affected persons is (i) Titleholders; and (ii) Non-titleholders.
- The vulnerable sections among each of the above categories will receive additional support.
- Adverse impacts would be avoided or minimized by exploring all viable alternative project design. Where the impacts are unavoidable, the project-affected persons will be assisted for retaining or upgrading their standard of living.
- Compensation for land at replacement cost, plus allowances for fees or other charges will be provided along with other assistances. Land will be acquired following Land Acquisition Act, 1894. The difference between the land cost decided as per LA Act and the updated Jantri values for the specific land parcel to be acquired will be paid by the project in the form of assistance.
- Compensation for residual unviable land parcels will be provided to those affected persons who are eligible and opting for the same.
- Compensation for loss of structures, other assets will be provided at replacement rate and will be paid before physical displacement from the occupied or affected area.
- Assistance will be provided to those affected persons who lose their livelihood due to the acquisition carried out as part of the project.
- Cut-off date for titleholders will be the date of publication of notification under Section 4(1) of Land Acquisition Act, 1894. For non-titleholders, the date of project census survey or a similar designated date declared by project authority will be considered as cut-off date.
- The households/land owners who are absent during the time of census survey will be entitled for assistance and budget provisions will include them also. However, people moving to the CoI after the cut-off date will not be entitled for any compensation or assistance.
- Vulnerable groups will be identified and given additional support and assistance in re-establishing or enhancing livelihood.
- Loss of common property resources will be compensated and reconstructed at project cost. Enhancement measures also will be provided for community assets located alongside the project corridor in consultation with the community.
- Information related to the preparation and implementation of resettlement plan will be disclosed to all stakeholders and people's participation will be ensured in planning and implementation.
- Appropriate grievance redress mechanism will be established at the district level to ensure speedy resolution of disputes.
- All consultations with PAPs shall be documented. Consultations will continue during the implementation of resettlement and rehabilitation works.
- Effective monitoring and evaluation mechanism will be established to ensure consistent implementation of resettlement activities planned under the project including third party monitoring.

## 2.2 ENTITLEMENT MATRIX

11. The Entitlement Matrix proposed for the project is presented in Table 2-1.

**Table 2-1: Entitlement Matrix**

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
1A	Titleholder – Agriculture Land / Non-agriculture land / Homestead Land and assets	Loss of land and assets	Land owner(s)	<ol style="list-style-type: none"> <li>1. Cash compensation at “actual market values”.</li> <li>2. Option for compensation of residual unviable land parcels<sup>5</sup>.</li> <li>3. Registration and stamp duty charges (currently applicable) for the land acquired.</li> <li>4. All fees, taxes and other charges, as applicable under the relevant laws, shall be borne by the project.</li> <li>5. Replacement of water-yielding bores shall be done subject to availability of water in the remaining landholding or anywhere near the beneficiary land in consultation with the affected community. If water is not available, replacement cost of the bore-well at rates decided on case-by-case (without depreciation) based on Gujarat Water Supply and Sewerage Board (GWSSB) Schedule of Rates.</li> <li>6. Financial assistance for replacement of Cattle shed: One-time financial assistance of Rs.15000 for displaced households.</li> <li>7. In case land owners become landless or marginal, financial assistance equivalent to 12 months of minimum agricultural</li> </ol>	<ol style="list-style-type: none"> <li>1. Compensation shall be determined as per LA Act, 1894. Difference, if any, between the compensation award as per the LA Act, 1894 and the market value, shall be paid by the project in the form of assistance. The updated Guideline / Jantri values will be adopted for determination of actual market value for the specific land parcel to be acquired.</li> <li>2. Compensation for Timber Trees shall be decided by Forest Department, Gujarat. Compensation for perennial trees and standing crops shall be decided by Agriculture and Cooperation Department, Government of Gujarat.</li> <li>3. The rates for determination of assistances and compensation shall be revised annually during the project implementation period. The revision shall be effected from the 1st day of April every year. The real value of monetary compensation and assistance shall be assessed as follows: (i) Compensation for land shall be based on updated Jantri value; (ii) Compensation for structures/assets shall be based on updated Schedule of Rates; and (iii) Allowances and assistances shall be based on Consumer Price Index (CPI), updated 1<sup>st</sup> of April every year. In case, if Jantri Value or Schedule of Rates is not updated by the 1st of April, compensation and assistance shall be provided based on existing rates. Differences if any, between the existing rates and the updated rates</li> </ol>

<sup>5</sup> Less than 0.4ha in case of irrigated land and less than 1ha in case of non-irrigated land

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
				<p>wages of Gujarat (calculated for 25 days in a month), as subsistence allowance.</p> <p>8. Ex-gratia assistance of Rs.20000 for land owners losing upto 500 sq.m of land in lieu of all other benefits.</p> <p>9. In case of severance of agricultural land, an additional grant of 10 percent of the amount paid for land acquisition.</p> <p>10. Advance notice of 4 months to harvest standing crops.</p> <p>11. Crop/tree damage compensation as assessed by the concerned Government Departments.</p> <p>12. Right to salvage materials from affected land or structure.</p>	will be provided by the project after publication of the updated rates.
1B	Titleholder – Residential Structure	Loss of structure	Land / structure owner(s)	<p>1. Compensation at replacement cost determined on the basis of R&amp;BD Schedule of Rates as on date without depreciation.</p> <p>2. Affected structures of size less than 20 sq.m., which are fully affected or if rendered unviable, shall have option to compensation equivalent to cost of provision of residential structure of size 20 sq.m.</p> <p>3. Shifting Allowance: One-time financial assistance of Rs. 10,000.</p> <p>4. Transitional allowance of Rs.10,000 towards temporary arrangements and rentals during the transition period.</p> <p>5. Right to salvage materials from</p>	1. Cost equivalent to the area mentioned in Para-2 shall be estimated based on R&BD Schedule of Rates without depreciation.

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
				affected land or structure.	
1C	Titleholder-Commercial/ industrial Structure	Loss of structure	Land / structure owner(s)	<ol style="list-style-type: none"> <li>1. Compensation at replacement cost determined on the basis of R&amp;BD Schedule of Rates as on date without depreciation.</li> <li>2. Affected structures of size less than 10 sq.m which are fully affected, or rendered unviable, shall have option to compensation equivalent to cost of provision of commercial structure, of size 10 sq.m.</li> <li>3. Shifting Allowance: One-time financial assistance of Rs. 10,000.</li> <li>4. Transitional allowance of Rs.10,000 towards temporary arrangements and rentals during the transition period.</li> <li>5. Right to salvage materials from affected land or structure.</li> </ol>	1. Cost equivalent to the area mentioned in Para-2 shall be estimated based on R&BD Schedule of Rates without depreciation.
1D	Titleholder-Residential-cum-commercial/ industrial structure	Loss of structure	Land / structure owner(s)	<ol style="list-style-type: none"> <li>1. The entitlement provisions that shall be higher among 1B and 1C shall be provided.</li> </ol>	
2A	Tenants-Residential / commercial / industrial Structure	Loss of structure	Individual / Household	<ol style="list-style-type: none"> <li>1. For tenants (residential category) requiring relocation, rental allowance for 6 months at the rate of Rs.1000/month in rural areas and Rs.1500/month in urban areas, if the structure is fully affected or the unaffected part of the structure is unviable.</li> <li>2. For tenants (commercial/industrial category), requiring relocation, rental allowance for 6 months at the rate of</li> </ol>	

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
				<p>Rs.1500/month in rural areas and Rs.2000/month in urban areas, if the structure is fully affected or the unaffected part of the structure is unviable.</p> <p>3. Shifting Allowance: One-time financial assistance of Rs. 5000.</p> <p>4. For impacts to structures constructed by the EP, compensation at replacement cost determined on the basis of R&amp;BD Schedule of Rates as on date without depreciation.</p> <p>5. Right to salvage materials from affected land or structure.</p>	
3A	Squatter-Residential / Commercial / Residential-cum-commercial	Loss of structure	Individual / Household	<p>1. Compensation for impacted structures at replacement cost determined on the basis of R&amp;BD Schedule of Rates as on date without depreciation (or)</p> <p>2. (i) Costs towards land and house construction (of area as applicable to EWS housing scheme in Gujarat), for residential squatters (ii) Costs towards land and shop construction (of 100 sq ft area) for commercial squatters, whichever is higher among 3A.1 and 3A.2.</p> <p>3. Shifting Allowance: One-time financial assistance of Rs. 5000..</p> <p>4. Training Assistance for Income Generation: Training in opted areas to any one member of the household losing livelihood. Training cost upto a maximum of Rs. 15000 shall be</p>	<p>1. Training programmes will be offered in coordination with any of the following agencies;</p> <ul style="list-style-type: none"> <li>o Education Department, Govt. of Gujarat (self employment programmes for women).</li> <li>o Tribal Development Department, Govt. of Gujarat (Vanbandhu Kalyan Yojana).</li> <li>o Department of Social Justice and Empowerment; Scheduled Caste Economic Development Corporation (Economic Upliftment Schemes for Scheduled Castes and women).</li> <li>o Commissionerate of Rural Development, Govt. of Gujarat.</li> </ul> <p>2. PIU will carry out periodic review to assess the efficacy of training programmes and suggest corrective measures including need for inter-departmental coordination, as required.</p>

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
				borne by the project implementation authority.	
3B	Encroachers	Loss of Assets	Household	<ol style="list-style-type: none"> <li>1. Ex-gratia for impacted assets at replacement cost.</li> <li>2. Encroachers shall be given advance notice of 4 months in which to remove assets (except trees), and harvest standing crops, if any</li> </ol>	
4A	Additional support to vulnerable groups		Individual / Household	<ol style="list-style-type: none"> <li>1. Training Assistance for Income Generation: Training in opted areas to any one member of the household losing livelihood. Training cost upto a maximum of Rs. 15000 shall be borne by the project implementation authority (or)</li> <li>2. Lump sum amount of Rs.15000 as grant to those who cannot be provided with alternative livelihood sources.</li> </ol>	<ol style="list-style-type: none"> <li>1. Training programmes will be offered in coordination with any of the following agencies; <ul style="list-style-type: none"> <li>o Education Department, Govt. of Gujarat (self employment programmes for women).</li> <li>o Tribal Development Department, Govt. of Gujarat (Vanbandhu Kalyan Yojana).</li> <li>o Department of Social Justice and Empowerment; Scheduled Caste Economic Development Corporation (Economic Upliftment Schemes for Scheduled Castes and women).</li> <li>o Commissionerate of Rural Development, Govt. of Gujarat</li> </ul> </li> <li>2. PIU will carry out periodic review to assess the efficacy of training programmes and suggest corrective measures including need for inter-departmental coordination, as required.</li> </ol>
5A	Employees in shops, agricultural laborers, sharecroppers	Loss of livelihood	Individual	<ol style="list-style-type: none"> <li>1. Training Assistance for Income Generation: Training in opted areas to any one member of the household losing livelihood. Training cost upto a maximum of Rs. 15000 shall be borne by the project implementation authority. (or)</li> <li>2. Lump sum Financial assistance equivalent to 6 months of minimum agricultural wages of Gujarat (calculated for 25</li> </ol>	<ol style="list-style-type: none"> <li>1. Training programmes will be offered in coordination with any of the following agencies; <ul style="list-style-type: none"> <li>o Education Department, Govt. of Gujarat (self employment programmes for women).</li> <li>o Tribal Development Department, Govt. of Gujarat (Vanbandhu Kalyan Yojana).</li> <li>o Department of Social Justice and Empowerment; Scheduled Caste Economic Development Corporation (Economic</li> </ul> </li> </ol>

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
				days in a month), to those who cannot be provided with training on alternative livelihood opportunities.	Upliftment Schemes for Scheduled Castes and women). o Commissionerate of Rural Development, Govt. of Gujarat. 2. PIU will carry out periodic review to assess the efficacy of training programmes and suggest corrective measures including need for inter-departmental coordination, as required.
6A	Community Assets	Loss of community assets	Community	<ol style="list-style-type: none"> <li>Resources such as cultural properties and community assets shall be conserved (by means of special protection, relocation, replacement, etc.) in consultation with the community.</li> <li>Adequate safety measures, particularly for pedestrians and children, landscaping of community common areas, improved drainage, roadside rest areas, etc shall be provided in design of the highways.</li> </ol>	
7A	Scheduled Tribes	Loss of land, structure or both	Household	<ol style="list-style-type: none"> <li>Cash compensation at the actual market value based on the latest Jantri values. In the event of the latest Jantri values not being equivalent to market rates due to lack of evidence of recent land transactions, enhanced cash compensation for land equivalent to 1.5 times of latest Jantri value of affected tribal land parcel.</li> <li>Entitled for assistance applicable for vulnerable groups.</li> <li>Additional one-time financial assistance equivalent to 500 days minimum agricultural wages towards the loss of customary rights/usages of forest produce.</li> </ol>	

Code	Category of PAP	Type of Impact	Unit of Entitlement	Entitlement	Remarks
8A	Disruption	Temporary Impact	Owner(s)	<ul style="list-style-type: none"> <li>• Compensation for temporary use of land or structures outside Right of Way for construction activities shall be made by the Contractor. The use of such land or structure, compensation for the temporary occupation/use of lands and restoration post completion of the occupation shall be through written agreement between land/structure owner and the contractor.</li> <li>• Temporary access would be provided, where necessary.</li> </ul>	As laid down in Clause 111 on Precautions for safeguarding the environment, Technical Specifications in the Bid Document.
9A	Unforeseen impacts			<ol style="list-style-type: none"> <li>1. Any unforeseen impacts shall be documented and mitigated in accordance with the principles and objectives of the Policy.</li> </ol>	



## 3. SOCIO-ECONOMIC PROFILE OF THE PROJECT AREA

---

### 3.1 SOCIO-ECONOMIC PROFILE

12. The chapter presents the socio-economic profile of talukas and villages/settlements abutting the project corridor. The proposed corridor passes through two districts of Anand and Kheda. The Umreth-Vasad stretch passes through talukas of Umreth and Anand in Anand district and Ladvel - Kapadvanj is within the Kapadvanj taluka of Kheda district. The total length of the proposed corridor is 41.905km. It abuts 13 villages and 3 towns (Umreth, Ode and Kapadvanj) with a population of 162,882 as per Census 2001. Summary of demographic details of talukas and villages are given in Appendix 3.1.

13. **Population Distribution:** The project area talukas comprise a total population of 9.06 lakhs as per census 2001, which increased to 10.6 lakhs as per 2011 census with an Average Annual Growth Rate (AAGR) of 1.7%. The settlements abutting the project corridor account for nearly 18% of the total taluka level population. Settlements located along the corridor are Umreth, Ode, Khambholaj, Sarsa and Kapadvanj. The 3 towns along the corridor account for nearly 58% of the total population residing along the project corridor.

14. **Household Size:** settlements abutting the project corridor have 31,480 households with an average household size of 5.2 as per census 2001.

15. **Population Composition:** Overall population of below 6 years age-group at the talukas level is 13% of the total population. The average sex ratio for project area talukas was 912 as per 2001 census which increased to 928 in 2011 census. The corresponding figure for 2001 was 920 in project corridor villages, which is higher than the sex ratio at state as well as taluka level. The average juvenile sex ratio in project corridor settlements is 949.

16. **Social Characteristics:** The average literacy rate for project area talukas was 53% as per 2001 census which increased to 66% in 2011 census. Six percent population at the taluka level belongs to SC and ST community. The share of SC community is 4% whereas that of ST community is 2%. The major tribe residing in this taluka is Bhil. As per Census 2001, SC and ST population constitutes 8% of the total population in the settlements located along the corridor.

17. **Occupational Structure:** As per the census 2001 there were 3.67 lakh total workers in the project area talukas. The total workers constituted 81% main workers<sup>7</sup> and 19% marginal workers<sup>8</sup>. Majority of workers are employed in other sectors<sup>9</sup> (46%) followed by agricultural sector (31.6%).

---

<sup>6</sup> Census 2011 information at village level is not yet published and relevant details at Taluka level has been given in Appendix 3.1.

<sup>7</sup>Main workers: those who had worked for the major part of the year preceding the date of enumeration i.e., those who were engaged in any economically productive activity for 183 days (or six months) or more during the year

<sup>8</sup>Marginal workers: those who worked any time at all in the year preceding the enumeration but did not work for a major part of the year, i.e., those who worked for less than 183 days (or six months).

18. The total workers in project corridor settlements are 63,110. Of this, Kapadvanj and Umreth account for majority of workers i.e. 39%. Similar to the talukas high share of workers are engaged in other sectors followed by agricultural sector.

19. **Workforce Participation Ratio (WPR):** As per the census 2001 the WPR for the project area talukas was 41%, which is equal to the state (41%) and district figure (40%). The female WPR was 26% as against male WPR of 54%. The average WPR for Project corridor settlements is 42% which is higher than the talukas WPR.

---

<sup>9</sup> Other Workers: all those workers other than cultivators or agricultural labourers or household industry workers are 'Other Workers'. The type of workers that come under this category of 'OW' include all government servants, municipal employees, teachers, factory workers, plantation workers, those engaged in trade, commerce, business, transport banking, mining, construction, political or social work, priests, entertainment artists, etc.

## 4. IMPACTS ON PEOPLE AND COMMUNITY ASSETS

### 4.1 MINIMISATION OF RESETTLEMENT IMPACTS

20. The proposed road improvement will be carried out within the available RoW of 24 m throughout the corridor, except at two locations where land outside RoW is required to be acquired for geometric improvements. A total of 0.19 ha of land outside RoW will be acquired. Efforts have been made to minimize any adverse impact on structures and other assets located within the proposed CoI by way of limiting geometric improvements within the existing RoW.

### 4.2 POTENTIAL IMPACTS

21. A total of 0.19 ha of private agricultural land belonging to 6 households will be acquired for the proposed improvement. The additional land will be required for the geometric improvement of curves at 2 locations – km 3+052 to km 3+232 (RHS) and km 3+331 to km 3+490 (LHS) at Hamidpura village. Other than these two locations, the proposed improvement will be carried out within the existing RoW of 24 m throughout the corridor. The project will not affect any government land.

22. In addition to the agriculture land, the proposed road improvement will also impact 32 commercial properties. Out of which, 30 shops belonging to non-titleholders. Boundary wall of 1 property (farm house) and one vacant plot will be impacted due to the project.

23. Out of the total 40 project affected households, 6 households are titleholders (agricultural lands), 30 households are squatters (Commercial) and 4 households are encroaches (including 2 commercial, 1 farm house and 1 open land). Other assets located within affected portion of properties are 18 private trees.

24. The project will also affect the structure of a shrine (at km 1+825) and a temple (at km 9+130) which is located along Vasad-Sarsa section of the proposed corridor.

25. The potential resettlement impacts and respective categories of affected population are given in Table 4-1.

**Table 4.1: Potential Resettlement Impacts**

Code	Category of PAP	Type of Impact	Unit of Entitlement	Numbers
1A	Titleholder – Agriculture Land / Non-agriculture land / Homestead Land and assets	Loss of land and assets	Land owner(s)	Agricultural land of 6 households
1B	Titleholder – Residential Structure	Loss of structure	Land / structure owner(s)	Nil
1C	Titleholder-Commercial/ industrial Structure	Loss of structure	Land / structure owner(s)	Nil
1D	Titleholder-Residential-cum-commercial/ industrial structure	Loss of structure	Land / structure owner(s)	Nil
2A	Tenants-Residential / commercial / industrial Structure	Loss of structure	Individual / Household	Nil
3A	Squatter-Residential / Commercial / Residential-cum-commercial	Loss of structure	Individual / Household	30 shops
3B	Encroacher	Loss of structures / Assets	Land owner(s)	4 (2 commercial, 1 farm house and 1 open plot).

Code	Category of PAP	Type of Impact	Unit of Entitlement	Numbers
4A	Additional support to vulnerable groups		Individual / Household	9 households [4 BPL, 2 ST, 1 ST as well as BPL and 2 households headed by persons above the age of 60 years].
5A	Employees in shops, agricultural labourers, sharecroppers	Loss of livelihood	Individual	
6A	Community Assets	Loss of community assets	Community	1 temple and 1 shrine
7A	Scheduled Tribes	Loss of land, structure or both	Household	3 shops
8A	Disruption	Temporary Impact	Owner(s)	--
9A	Unforeseen impacts			--

### 4.3 CUT-OFF DATE

26. Cutoff date for non-titleholders is 3<sup>rd</sup> may 2012. The cut-off date for titleholders is the date of Section 4(1) notification as per LA Act, 1894.

### 4.4 OVERVIEW OF DESIGN MODIFICATIONS

27. The concerns raised by the community have been documented and discussed in detail with the Design Team. The views and suggestions of the community have been integrated into the road design wherever feasible. This includes road safety measures such as pedestrian crossings, warning signs, markings, provision for parking spaces, provision for retaining wall at road section traversing water bodies, limiting curve improvements within the existing RoW etc.

28. Efforts have been made to minimise any adverse impact on structures and other assets located within the RoW. Impact to structures has been minimised by adopting the CoI and careful design approaches. Table 4.2 summarizes the number of structures saved with design modification.

**Table 4.2: Design Interventions to minimize / avoid resettlement impacts**

S. No.	Chainage	Design Interventions	Structures Saved
1	8+000 to 8+400	1 House, 1 bakery, 1 Colony wall and 2 Hotels are saved by adopting the COI approach and removing the parking area.	5
2	18+820 to 19+100	2 school resting sheds, 1 society boundary and 1 petrol pump boundary are saved by adopting COI Approach, Reducing parking area and slight shift of road alignment	4
3	32+000	1 Shop and 1 house saved by reducing the formation width	2
4	31+980 to 31+840	2 schools, 2 shrine and 1 temple protected by reducing the formation width	5
	31+700 to 31+665	3 House 1 temple saved by reducing the formation width	4
5	31+590 to 31+500	2 shop and 1 house saved by reducing the formation width	3
6		Minimal impacts to the boundary wall of a school	
7	31+470	1 shop saved by reducing the formation width	1
8	0+330L	1house saved by reducing the formation width	1
9	9+150L	Boundary wall of industry saved by reducing the formation width	1
<b>Total Structures Saved</b>			<b>26</b>

29. The extent of minimization of impacts on properties and structures is shown in Figure 4.1 and Figure 4.2. The figures show the impacted properties within RoW and mitigation measures adopted from km 18+820 to 19+100 for protecting the structures and temple within RoW respectively.

30. Within this 280 m stretch, 4 structures and 4 trees located within the RoW were affected with the initial road design. Out of this, all structures and one tree have been saved by adopting mitigation measures such as shifting of alignment and limiting the impact upto CoL.

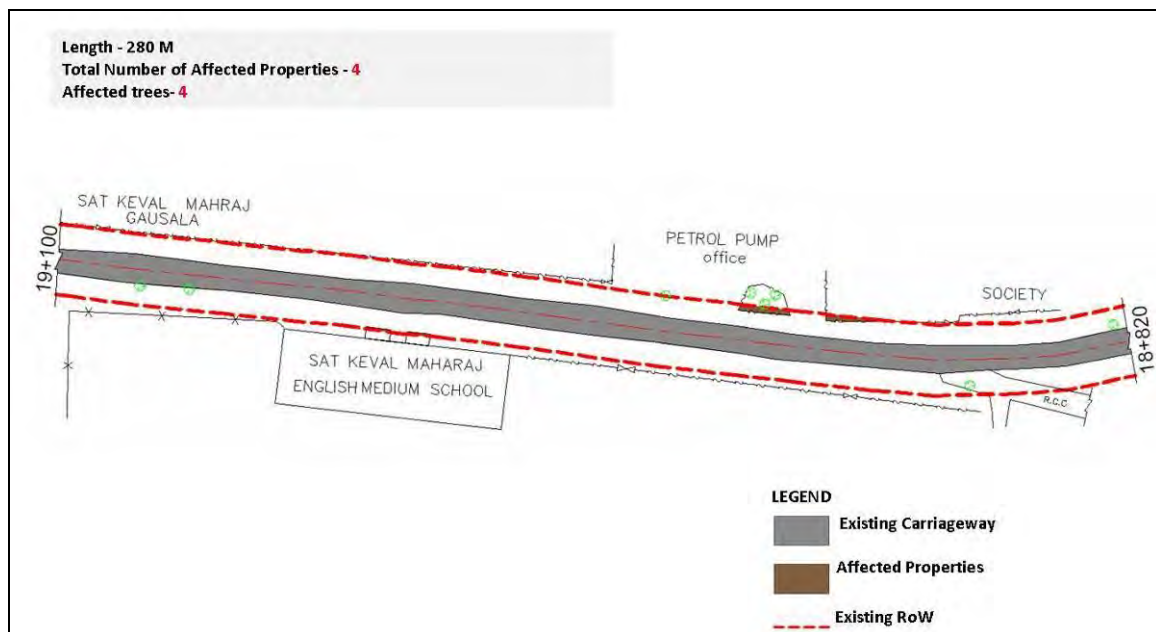


Figure 4.1: Impacted structures within existing RoW

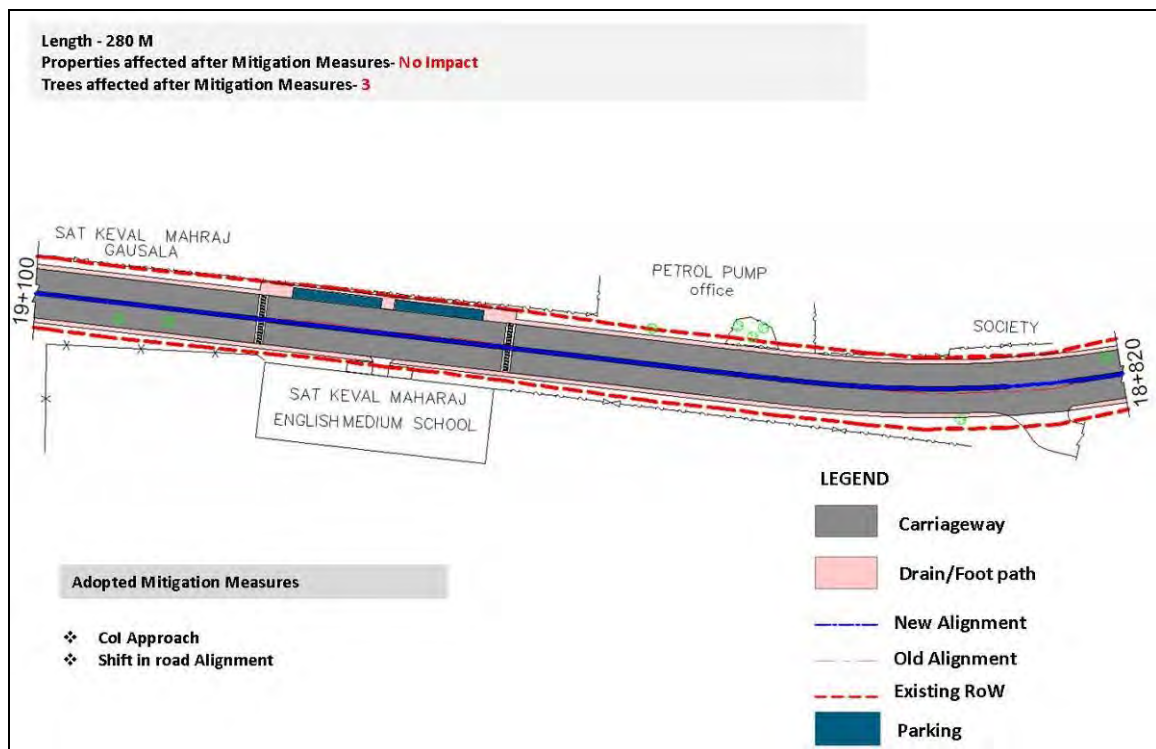


Figure 4.2: Impacted structures with Mitigation measures

#### 4.4.1 Videography of the Project Corridor

31. Videography along the project corridor, covering the entire RoW was carried out on 03.05.2012, prior to the conduct of the census surveys. This exercise formed the basis for the inventory of non-titleholders.

#### 4.4.2 Census and Socio-Economic Surveys

32. The Census survey was carried out for all affected households within the CoI and detailed socio-economic survey has been carried out on representative basis. Census and socio-economic survey of the affected households was carried out on 18.05.2012 and 19.05.2012 for 38 affected households. The surveys were administered through a structured questionnaire (Appendix 4.1). Data was collected for each affected property, the details were documented and photographs of structures were taken. The list of impacted structures is enclosed in Appendix 4.2 along with map (Appendix 4.3). The findings of the survey has been analyzed and presented in succeeding sections. The survey information helped to generate necessary input for the preparation of RAP. It also provided a baseline assessment of potential impacts on affected households and formed the basis for estimating the entitlement-based resettlement budget.

### 4.5 IMPACT ON PROPERTIES

#### 4.5.1 Major and Minor Impacts

33. Impact on the affected properties has been classified into major and minor, as defined below:

- **Major impact:** includes those properties where the major part of the structure/land is affected and becomes untenable and the affected party is unable to live/do business in the unaffected portion of the property, OR 25% or more portion of the property is affected.
- **Minor impact:** includes all impacts other than major impacts, OR those properties where only a part of the structure/land is acquired and the remaining portion is intact and the affected party can continue to live/do business in the unaffected portion of the property.

34. Details of properties with level of major and minor impacts have been presented in Table 4-3.

**Table 4-3: Distribution of Properties having Major and Minor Impacts**

Commercial	Major Impact			Minor Impact		
	Titleholder	Non-titleholder	Total	Titleholder	Non-titleholder	Total
Commercial	0	30	30	2	0	32
Farm House	0	0	0	1	0	1
Agricultural Land	0	0	0	6	0	6
Vacant Plot	0	0	0	1	0	1
<b>Total</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>10</b>	<b>0</b>	<b>40</b>

Source: LASA Primary Survey, 2012

#### 4.5.2 Type of Loss

35. Built-up structure will be affected for 33 properties and out of this, 3 properties will have impacts on structure as well as land. Apart from these built up structures, agriculture land of 6 households (0.19 ha) will be affected due to the project (Table 4-4).

**Table 4-4: Distribution of Impacted Properties by Type of Loss**

Type of Loss	Major Impact				Minor Impact			
	Structure	Land	Structure & land	Total	Structure	Land	Structure & land	Total
Commercial	30	-	-	30	-	-	2	2
Farm House	-	-	-	-	-	-	1	1
Agricultural Land	-	-	-	-	-	6	-	6
Open Plot	-	-	-	-	-	1	-	1
<b>Total</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>7</b>	<b>3</b>	<b>10</b>

Source: LASA Primary Survey, 2012

### 4.5.3 Type of Structures

36. Out of the 33 affected structures, 2 are semi-pucca and 31 are kutcha structures (Table 4-5).

**Table 4-5: Type of Structures**

Type of Loss	Major Impact				Minor Impact			
	Pucca	Semi-Pucca	Kutcha	Total	Pucca	Semi-Pucca	Kutcha	Total
Commercial	-	-	30	30	-	1	1	2
Farm House	-	-	-	-	-	1	-	1
<b>Total</b>				<b>30</b>		<b>2</b>	<b>1</b>	<b>3</b>

Source: LASA Primary Survey, 2012

### 4.5.4 Loss of other assets

37. A total of 18 private trees will be affected which are located within the affected portion of the properties.

**Table 4-6: Type of Assets (Impacted within the affected portion of Properties)**

Type of Assets	Number
Tree	18

### 4.5.5 Impact on cultural properties and community assets

38. The proposed road improvement will affect the built-up structure of one temple (km 9+130) and one shrine (km 1+825) located along Vasad to Sarsa section of the project corridor. The affected shrine is about 8 years old and devotees visit the shrine occasionally.

**Table 4-7: Impacted Cultural Structures**

Type of Assets	Number
Temple	1
Shrine	1

## 4.6 SOCIO-ECONOMIC PROFILE OF AFFECTED POPULATION

39. The strategy for socio-economic survey has been drawn up based on the findings of SIA exercises<sup>10</sup> and the sample drawn for the detailed socio-economic survey is representative and includes all categories of impacted population. Socio-economic details have been collected for 38 households and the remaining 6 households were not covered since they were not available during the survey and these households will be covered during the PAP verification and preparation of Micro-plan exercises to be carried out by NGO during RAP implementation.

40. There are 192 project affected persons (PAPs) belonging to 38 PAHs. Out of the 192 PAPs, 87 are female. The socio-economic profile of the affected population is analysed and presented in the ensuing sections.

41. **Social Category:** Out of the 38 PAFs, 5 belong to SC community, 15 to Other Backward Castes (OBC), 15 to General category and 3 to ST community.

<sup>10</sup> This is in line with the Terms of Reference of Social Impact Assessment, Resettlement Action Plan and Indigenous Peoples Development Plan, provided along with the World Bank Aide Memoire dated 4<sup>th</sup> November 2010.

42. **Woman Headed Households:** There are no woman-headed households among the affected households.

43. **Vulnerable Group:** There are 9 vulnerable PAFs. Table 4-8

**Table 4-8: Distribution of Vulnerable Group**

Vulnerable category	Number	Percent
Schedule Tribe	3	33.3%
Below Poverty Line (BPL)	4	44.4%
Headed by Aged Person (above 60 years)	2	22.2%

44. **Age and Sex composition:** 38% of PAPs fall in the age group of 25-45 and 28% are below the age group of 14 years (Table 4-9).

**Table 4-9: Age Distribution of Affected Households**

Age	Major Impact		Minor Impact		Total	
	Female	Male	Female	Male	Female	Male
< 6 yrs	3	5	5	8	8	13
6-14 yrs	8	6	7	9	15	15
15-24 yrs	8	10	9	13	17	23
25-45 yrs	8	22	12	16	20	38
46-60 yrs	6	10	0	4	6	14
> 60 yrs	1	0	20	2	21	2
<b>Total</b>	<b>34</b>	<b>53</b>	<b>53</b>	<b>52</b>	<b>87</b>	<b>105</b>

Source: LASA Primary Survey, 2012

45. **Education Profile:** the education profile of affected households is given in Table 4-10. Major percentage of project affected persons has secondary level of education.

**Table 4-10: Education Profile of Project Affected Persons**

Education	Major Impact		Minor Impact		Total	
	Number	Percent	Number	Percent	Number	Percent
Illiterate	14	27.59	13	16.98	27	14.1
Primary	14	20.69	13	18.87	27	14.1
High School	20	10.34	16	33.02	36	18.8
Secondary	33	34.48	28	21.7	61	31.8
Higher Secondary	12	6.9	13	2.83	25	13.0
Technical	8	0	6	3.77	14	7.3
Graduation and Above	1	0	1	2.83	2	1.0
<b>Total</b>	<b>102</b>	<b>100</b>	<b>90</b>	<b>100</b>	<b>192</b>	<b>100.0</b>

Source: LASA Primary Survey, 2012

46. **Occupation Profile:** 20% of the PAPs are engaged as farmers (Table 4-11).

**Table 4-11: Occupation Profile of Project Affected Persons**

Occupation	Major Impact		Minor Impact		Total	
	Number	Percent	Number	Percent	Number	Percent
Artisans	5	16	0	0.0	5	9.3
Farmer	7	22	4	18.2	11	20.4
Agriculture Labour	1	3	0	0.0	1	1.9
Business/Trade	3	9	2	9.1	5	9.3
Private Service	0	0	1	4.5	1	1.9
Other Works	3	9	3	13.6	6	11.1
<b>Total</b>	<b>32</b>	<b>100</b>	<b>22</b>	<b>100.0</b>	<b>54</b>	<b>100.0</b>

Source: LASA Primary Survey, 2012

47. **Income Profile:** about 63% of the PAFs are in the income category of 2001-5000, earning an average monthly household income of Rs.2500.

**Table 4-12: Income Distribution of Project Affected Households**

Income Category	Major Impact	Minor Impact
	Number of Households	Number of Households
2000 and Below	1	5



2001-5000	12	12
5001-8000	0	3
8001-11000	0	3
11001-14000	0	0
14001 and Above	0	2
<b>TOTAL</b>	<b>13</b>	<b>25</b>

48. **Possession of Household Assets:** Among the all households under project corridor, 2 households possess all mentioned household items, 17 households possess TV and Phone; 6 have TV, refrigerator and two-wheeler; 9 have TV and refrigerator; and 4 households have TV and four-wheeler.

## 5. STAKEHOLDER CONSULTATIONS

### 5.1 CONSULTATION

49. Project affected people were informed about the proposed road development and potential impacts during consultations. Consultations with the roadside communities were undertaken at 5 locations as part of the SIA. Peoples' representatives, affected people and common public participated in the consultations. Details of consultation are presented in Table 5-1. A format for consultation has been developed incorporating 'open-ended' discussion points to gather information. Copy of the consultation-format is given in Appendix 5.1. The photographs of consultations are given in Appendix 5.2

50. In general, the community welcomed the proposed project and was of the opinion that they have the obligation to part with their land or structures for a public cause. PAPs have requested for adequate time in case the structure requires to be removed.

51. The people wanted to know more details about the project, the likely time of land and structure acquisition, the probable time of project initiation and completion and also more about compensation for affected structures.

**Table 5-1: Details of Consultation**

Sr. No.	Corridor: Umreth-Vasad (including Ladvel-Kapadvanj)
1	Chainage: km 00+000, Junction at Umreth, Dist: Anand. Date: 18/05/12, Number of Participants: 10: shopkeepers and community members.
2	Chainage: km 14+800; Near Graveyard, Dist: Anand. Date: 19/05/12, Number of Participants: 8: Villagers.
3	Chainage: km 15+100; Church and T-junction, Dist: Anand. Date: 19/05/12, Number of Participants: 15: Priest of Church, Zila Parishad member, Villagers.
4	Chainage: km 19+000; Sarsa Chokdi, Dist: Anand. Date: 19/05/12, Number of Participants: 12: shopkeepers, villagers and school staff
5	Chainage: km 31+400; Shiv temple, Dist: Kheda. Date: 19/05/12, Number of Participants: 8: Villagers

52. At the start of the consultation sessions, the project objectives, proposed improvements for the corridors were informed to the participants. It was informed to the participants that there was a conscious effort to minimize land acquisition and impacts on private lands and assets. Accordingly designs are being worked out to avoid land acquisition, especially in the settlement stretches. Only at very constricted locations, where the safety and design standards shall warrant, the acquisition of land has been proposed in the project. Further, it was clarified that, the consultations will form inputs to further refine the project designs to minimize impact on private and community structures and assets.

### 5.2 OUTCOMES OF CONSULTATIONS

53. The outcomes of consultations were discussed with the design team, and all attempts were made to integrate the views and suggestions of the community into the project design. The outcomes of consultation and its integration into the project design are documented in Table 5-2.

**Table 5-2: Outcomes of Consultation and Integration into Project Design**

Location	Key Outcomes	Integration into Project Design and Action Plan
Chainage: km 0+300 Junction at Umreth	Road safety measures should be provided near the school and at the major junction. Villagers suggested to protect the water body (large pond) located on LHS of the road. This area is	Road safety measures like humps, warning signs etc., incorporated into the design Retaining wall will be provided throughout the pond embankment alongside the road.

Location	Key Outcomes	Integration into Project Design and Action Plan
	prone to accidents and safety measures should be provided. One open-well located nearby (at km 0+500) should be saved.	The open-well will be preserved and crash barriers will be provided to address safety issues.
Chainage: km 14+800 Near Graveyard	The grave yard may be impacted due to widening of the road. Necessary measures should be taken to avoid any impact on the grave yard.	The graveyard will not be affected and provision for the construction of a boundary wall for the graveyard has been incorporated in the design to avoid any impact during construction as well as post-construction period.
Chainage: km 15+100 Church and Y Junction	Parking area and road safety measures should be provided near the Church location. Traffic jam occurs when a large number of visitors assemble in the Church for prayer, especially on Sundays. Road safety measures should be provided in T-junction since the junction is prone to accidents. Water logging is a major problem highlighted by the participants and suggested to provide proper drains.	Provisions of parking spaces have been incorporated in the design. Speed control measures, cautionary signboards and road marking incorporated in the design to address the safety issues near Church location. All the safety issues have been taken into consideration while designing the T-junction. Drains on both sides of the road proposed in the design.
Chainage: km 19+000 Sarsa Chokdi	Safety measures should be provided near school location, market and temple. Parking area should be provided near the market area.	Junction improvement will be carried out with adequate safety measures including pedestrian crossings, cautionary signboards, speed-breakers, etc. Provision for parking space proposed in the design.
Chainage: km 31+400 Shiv Temple	The temple may be impacted due to the proposed improvement. It should be saved as far as possible. Landscaping along with sitting arrangements should be provided near the temple.	The temple will not be affected. Footpaths, sitting arrangements, etc., will be provided as part of cultural property enhancements.

## 6. OTHER SOCIAL ISSUES

---

### 6.1 ROAD SAFETY ISSUES

54. Road safety audit carried out as part of DPR preparation reveals high number of accidents along the project corridor due to inadequate shoulder widths, poor sight distance in sharp locations, lack of treatment in junctions, and the parapets of culverts. Wherever feasible, a minimum of 1.5m shoulders have been provided in the design. Safety Audit report suggests for design improvements in curve and along the junctions. The culverts will be expanded in width to accommodate shoulders/extended carriageway, wherever feasible,. In places where this is not feasible adequate steps have been taken for delineation of the parapets.

55. Safety interventions in form of warning signs and restricted speed have been taken up for curve locations at chainages km 00+500, km 01+200, km 02+300, km 03+200, km 03+275, km 03+435, km 03+835, km 04+325, km 04+600, km 07+300, km 12+600, km 13+650, km 13+875, km 16+000, km 17+750, km 18+675, and km 18+875). Intersections in form of T junction, Y junctions are provided with properly designed access along with markings and signs. Details of road safety issues and interventions are provided in Safety Audit Report (Volume V of DPR).

### 6.2 HIV/AIDS ISSUES

56. Detailed consultations have been conducted with medical institutions, trucker community and local leaders along the project corridor as part of the study with respect to HIV/AIDS Prevention Plan (HPP). There are two medical service centres located along the Ladvel-Kapdvanj section of the corridor and five medical centres located along Umreth-Vasad section. 7 HIV+ve cases have been reported from Kapadvanj town. Presence of high-risk groups (HRG) and HIV positives are reported in other parts of the corridor Also.

57. Detailed account of various issues related to HIV/AIDS based on the consultations carried out with ICTC counsellors, NGO personnel, trucker community, etc., along the corridor are presented in the HPP. Strategic action plan for mitigation of identified issues along with budget are also incorporated in the HPP.

### 6.3 GENDER PLAN

58. The proposed road development is expected to open up new economic opportunities for women to upgrade their skills and also provide better accessibility to educational and health facilities. During consultations, women suggested to protect their houses and provide adequate safety measures especially at settlement locations and near schools. However, there are no woman-headed households amongst the affected households.

59. **Women labourers in the construction work force:** there will be requirement of unskilled laborer where women may likely to involve in such work. Women as household members of the skilled and semi-skilled laborers will also stay in the construction camps and will be indirectly involved during the construction phase. The construction contractors are expected to bring along their laborer force. Thus, in most cases the laborers, both male and female, will be migratory laborers and there will be involvement of local

laborer force, especially for unskilled activities. There will be involvement of local women also in the local laborer force. Foreseeing the involvement of women both directly and indirectly in the construction activities, certain measures are required to be taken towards welfare and wellbeing of women and children in-particular during the construction phase.

### **6.3.1 Facilities for Women in Construction Camps**

60. For women working at the construction site and staying in the labour camps, the following facilities will be ensured (i) temporary housing - during the construction the families of labourers/workers will be provided with the suitable accommodation and facilities for other civic requirements, particularly health and sanitation; (ii) health centre - health problems of the female workers will be taken care of through health centres temporarily set up for the construction camp where medicines and minimum medical facilities to tackle first-aid requirements or minor accidental cases will be provided. In addition, linkage to nearest higher medical care will be ensured whenever required. The contractor will arrange the visit of doctor, at least once in week, to provide required medical support to the workers in general and women in particular.

61. A strong vigilance mechanism will have to be developed by the contractor to ensure ceasing abuses at work places. RAP implementing NGO will provide necessary support to check such exploitation. Scheduling of working hours for women also needs to be regulated. Women, especially the mothers with infants will be exempted from the night shifts and from prolonged working hours.

## 7. IMPLEMENTATION ARRANGEMENTS

---

### 7.1 INSTITUTIONAL ARRANGEMENTS FOR THE PROJECT

62. A dedicated unit, Environmental and Social Management Unit (ESMU) has been established within the PIU towards implementation of environment and resettlement provisions in GSHP-II. Chief Engineer (World Bank) will have overall responsibility for policy guidance, coordination and planning, internal monitoring. The following section illustrates roles and responsibilities of institutional and individual stakeholders with respect to implementation of the RAP provisions.

#### 7.1.1 Environmental and Social Management Unit (ESMU)

63. ESMU will be headed by an officer of the rank of Executive Engineer (EE), and will be responsible for all activities related to resettlement and rehabilitation. Chief Engineer (World Bank Projects) will have overall responsibility of the project, who will be assisted by Superintending Engineer (SE). The EE will be assisted by an Environmental Specialist and a Social Specialist. ESMU will be housed in R&BD headquarters in Gandhinagar. One each Executive Engineers at field divisions<sup>11</sup> will be responsible for E&S activities

64. Roles and Responsibilities of EE at State Level:

- Co-ordinate the implementation of R&R activities with PIU, field staff, engineering and revenue officials;
- Ensure availability of budget for R&R activities;
- Approve micro plans prepared by the NGOs for implementing RAP;
- Monitor the progress related to R&R and LA carried out by NGO and M&E Consultants;
- Hold periodic meetings on R&R implementation and report to the Chief Engineer, PIU.

65. Respective Divisional Offices at field level will assist the PIU in carrying out the R&R activities in roads passing through respective districts.

#### **Roles and Responsibilities of Divisional Offices at District Level;**

- Ensure continued participation of the people in entire project cycle;
- Verify and send the micro plans for approval of the PIU
- Assist the PIU in monitoring the progress related to R&R and LA carried out by NGO and M&E Consultants;
- Hold periodic meetings on R&R implementation and report to the PIU.

66. The proposed implementation arrangement for the management of environmental and social issues has been given in Figure 7.1.

---

<sup>11</sup> The Field Divisions of R&BD are located at Rajkot, Mehsana and Vadodara.

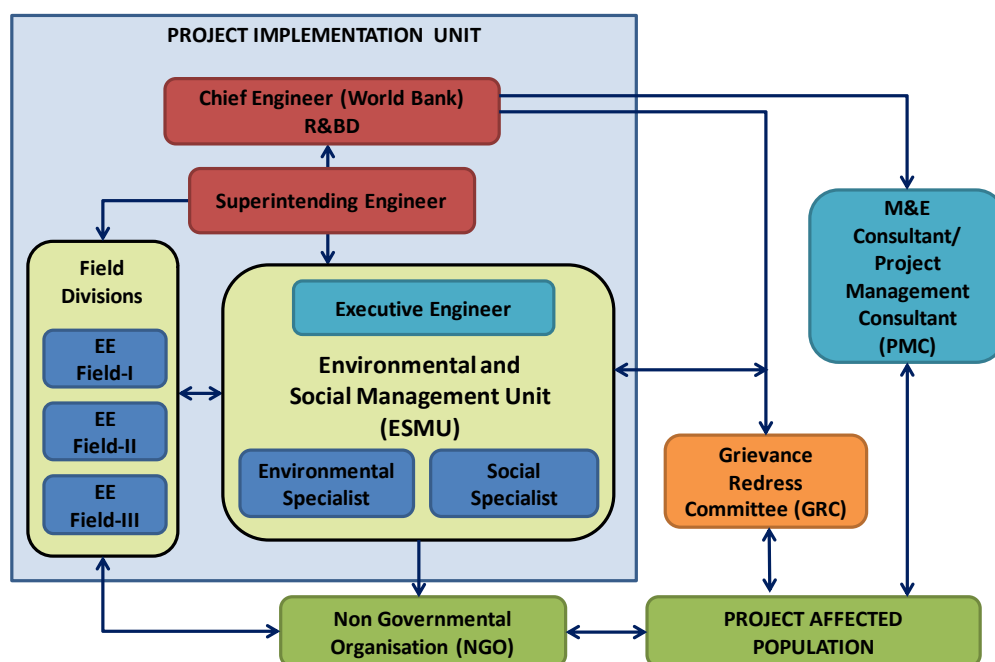


Figure 7.1: Implementation Arrangements

67. The Social Specialist will assist the EE. The Social Specialist shall have a minimum of 5 years of experience in resettlement and rehabilitation in highway projects.

### **Roles and responsibilities of Social Specialist at the State Level**

- Assist SE to perform R&R activities.
- Co-ordinate with the district administration on LA and R&R. Coordinate and follow-up with Revenue Department member of the ESU.
- Facilitate the appointment of external agency for impact evaluation and overall monitoring and supervision of implementing NGO.
- Training of NGOs – class –room and on-site.
- Review of reports and documents submitted by the NGO.
- Training to R&BD staff on social aspect management and reporting.
- Preparation of Social Aspect Status Reports for the WB and Government of Gujarat.
- Preparation of periodic progress reports for the WB and Government of Gujarat.
- Documentation of case histories.
- Preparation of reporting formats, checklists, guidelines on social management aspects.
- Translate the executive summary of RAP in Gujarati language and disseminate it among the project stakeholders and at important places along the project road.
- Organize fortnightly meetings with the NGO to review the progress on R&R and report to SE and CE.
- Review micro plan and monthly progress reports submitted by NGO.

### **Roles and responsibilities of Social Specialist at the District Level**

- Participate in public consultations.
- Management of conflict resolution exercises for social issues.
- Assistance in-community property & temple relocation cases.
- Monitoring of community enhancement plans.
- Liaison with district administration and concerned departments for dovetailing government social security schemes for the socio-economic wellbeing of the PAPs.
- Develop and maintain a PAP level database including aspects related to losses, compensation, R&R entitlement, release of funds and utilization.

- Assistance in Cross-verification of PAPs identified by the NGO.
- Finalization of individual entitlements in co-ordination with the NGO and PIU.
- Checking of ID cards submitted by the NGO.
- Participation in the ID card distribution process with NGO and PIU.
- Cross-verification of PAP training details submitted by the NGO.
- Coordination with concerned divisions regarding distribution of shifting, subsistence and training allowances.
- Assistance and coordination with concerned divisions regarding notification process under RAP.
- Assistance and coordination for resettlement cases with State Road Project Divisions and concerned Government departments.
- Supervision of the socio-economic surveys.
- Assistance in grievance redressal procedures & coordination of field activities with the NGO.
- Assistant in Market Value Assessment Procedures.
- Technical assistance in creating socio-economic data base of HHs losing land.

### 7.1.2 Implementation Support by NGO

68. As prescribed in the World Bank Operational Policy<sup>12</sup>, GSHP-II envisages involvement of NGOs in the implementation of RAP. The roles and responsibilities of NGO are summarized as follows:

- Undertake verification of PAPs
- Explain to PAPs about the potential adverse impacts and proposed mitigation measures and, R&R entitlements;
- Distribute the dissemination materials including pamphlets on RAP and other aspects;
- Facilitate ESMU in organizing public information campaign at the commencement of R&R activities;
- Prepare the micro plans;
- Participate in the meetings organized by ESMU;
- Provide support for implementation of RAP;
- Prepare and issue identity cards to identified PAFs;
- Facilitate opening of joint bank accounts (PAPs and his/her spouse) for individual PAPs;
- Assist PAPs in receiving compensation, focusing on vulnerable PAPs to ensure that they get their dues on time;
- Generate awareness about the productive use of compensation money and R&R grants;
- Explain the resource base and other opportunities to enable them to make informed choices and participate in their own development;
- Ensure that vulnerable PAPs are given their dues both for payment of compensation and rehabilitation assistance;
- Submit monthly progress reports to ESMU;
- NGOs will help in HIV awareness;
- Identify training needs of PAPs for income generating activities and ensure they are adequately supported during the post-training period on respective income generating activities, and,
- Ensure that the grievances and problems faced by PAPs are presented to the Grievance Redress Committee for their resolution.

---

<sup>12</sup> Annex A: Involuntary Resettlement Instruments, OP 4.12. The World Bank Operational Manual. December 2001.



### 7.1.3 Compensation and Assistance Procedures

- ESMU will facilitate for joint verification of land by LAO. Valuation of assets within affected land will be carried out by respective Departments<sup>13</sup>. Implementing NGO will facilitate and assist in the valuation of assets.
- Micro-Plan will be prepared for each affected person. Micro-Plan will have details of affected area of land and the compensation for the same (including compensation for various assets located within the affected land) along with entitlements as per the Resettlement Policy Framework for respective members of households. NGO will prepare the Micro-Plan.
- The compensation for land and other assets for titleholders (assets alone in the case of non-titleholders) will be disbursed through Revenue Department.
- Assistance as per entitlement provisions for both titleholders and non-titleholders will be disbursed through PIU.
- Any grievances arise during valuation of land or other assets and estimation of entitlements will be referred to the Grievance Redress Committee. This will also be facilitated by NGO.

### 7.1.4 Monitoring and Evaluation

69. Internal monitoring of the implementation of social safeguards will be carried out by the PIU with support of Project Management Consultant/Supervision Consultant. Towards enhancing the quality of RAP/IPDP implementation, in addition to the internal monitoring by the PIU, external monitoring will be done by a third-party agency or Project Management Consultant (PMC) for technical as well as environmental/social aspects. The role of third-party agency/PMC towards external monitoring of social safeguards will include the following:

- Conduct periodic monitoring of RAP implementation on quarterly basis to provide early alert to redress any potential problems; and
- Conduct mid-term, annual and end term monitoring to assess target achievements and slippages with respect to implementation of RAP/IPDP.

70. The RAP will contain indicators and benchmarks for achievement of the objectives under the resettlement programme. These indicators and benchmarks will be of (i): proposed indicators, indicating project inputs, expenditures, staff deployment, etc; (ii) output indicators, indicating results in terms of numbers of affected People compensated and assisted, training held, details of disbursements, etc; and (iii) impact indicators, related to the longer-term effect of the project on communities.

71. The benchmarks and indicators will be limited in number, and combine quantitative and qualitative types of data. The first two types of indicators, related to process and immediate outputs and results, will be monitored to inform project management about progress and results, and to adjust the work programme where necessary if delays or problems arise. The results of this monitoring will be summarized in reports which will be submitted to the PIU on a regular basis. Provision will be made for participatory monitoring involving the PAPs. Illustrative set of monitoring indicators for physical progress, financial progress and grievance redress have been presented in Table 7-1, Table 7-2 and Table 7-3.

---

<sup>13</sup> Timber trees – Forest Department; Perennial trees and standing crops – Agriculture and Cooperation Department; Built-up structures – Roads and Buildings Department; Water resources – Gujarat Water Supply and Sewerage Department.

**Table 7-1: Monitoring Indicators for Physical Progress**

Sl. No	Monitoring Indicators	Implementation Target	Revised Implementation Target	Progress this Month	Cumulative Progress	% against Revised Implementation Target
1	Land acquired – private (acre)					
2	Land transferred – government (acre)					
3	Compensation for land (INR)					
4	Compensation for structure					
5	Preparation and dissemination of leaflets to various stakeholders					
6	Preparation and approval of plans					
7	Number of joint bank accounts opened					
8	Issuance of identity cards					
9	Submission of monthly progress reports					
10	Shifting allowance for all affected categories					
11	Livelihood Restoration Allowance for affected categories					
12	Vulnerable groups					
13	Community Assets					

**Table 7-2: Monitoring Indicators for Financial Progress**

Sl. No	Category	Estimated Cost (INR)	Progress this month
1	Land Acquisition		
2	R&R Assistance		
3	NGO Services and M&E Services		

**Table 7-3: Monitoring of Grievance Redress**

Sl. No	Particulars	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1	No. of cases referred to GRC				
2	No. of cases settled by GRC				
3	No. of cases pending with GRC				
4	Average time taken for settlement of cases				
5	No. of GRC meetings				
6	No. of PAPs moved court				
7	No. of pending cases with the court				
8	No. of cases settled by the court				

**Table 7-4: Evaluation Indicator**

Indicators	Pre Project Baseline	Mid Term Evaluation	End Project Evaluation
<b>ECONOMIC</b>			
Below Poverty Line	Total BPL (residential, commercial and residential-cum-commercial) – 4 out of 38(11%) BPL within residential – Nil BPL within commercial – 3 out of 4 (75%) BPL within agricultural – 1 out of 4 (25%)		

Indicators	Pre Project Baseline	Mid Term Evaluation	End Project Evaluation
Household income (Annual)	< Rs. 24000 = 6 out of 38 (16%) Rs. 24001-48000 = 24 out of 38 (63%) Rs. 48001-72000 = 3 out of 38 (8%) Rs. 72001-120000 = 3 out of 38 (8%) > Rs. 120001 = 2 out of 38 (5%)		
Occupation	Business/Trade – 5 out of 54 (9.3%) Private service – 1 out of 54 (1.9%) Agriculture labour – 1 out of 54 (1.9%)		
Average household expenditure	Food (monthly) – Rs.1791 Education (monthly) – Rs.321 Health (monthly) – Rs.310 Local travel (monthly) – Rs.179		
Percentage of earning women	2 earning women out of 87 women (2%)		
Average monthly earning of women	Rs. 15,000 (average monthly income of 2 earning women)		
<b>ASSET OWNERSHIP</b>			
Ownership of household assets	Television – 23 out of 38 (61%) Refrigerator – 7 out of 38 (18%) 2-wheeler – 10 out of 38 (26%) 4-wheeler – 6 out of 38 (16%) Telephone – 27 out of 38 (71%) Washing Machine – 2 out of 38 (5%) Computer – 6 out of 38 (16%)		

### 7.1.5 Grievance Redress Committee

72. The project proposes to establish a Grievance Redress Committee (GRC) to hear the complaints of project affected persons and resolve the same. The process will promote settlement of disputes and reduce litigation. GRC will be set up at the district level with District Collector as head. The GRC will have representation from the NGO involved in RAP implementation. The following persons will be the members of GRC:

- District Collector or his designated representative of at least the rank of Assistant District Collector (preference would be given to women officers);
- The District Development Officer of the Department of Revenue;
- The Executive Engineer, PIU;

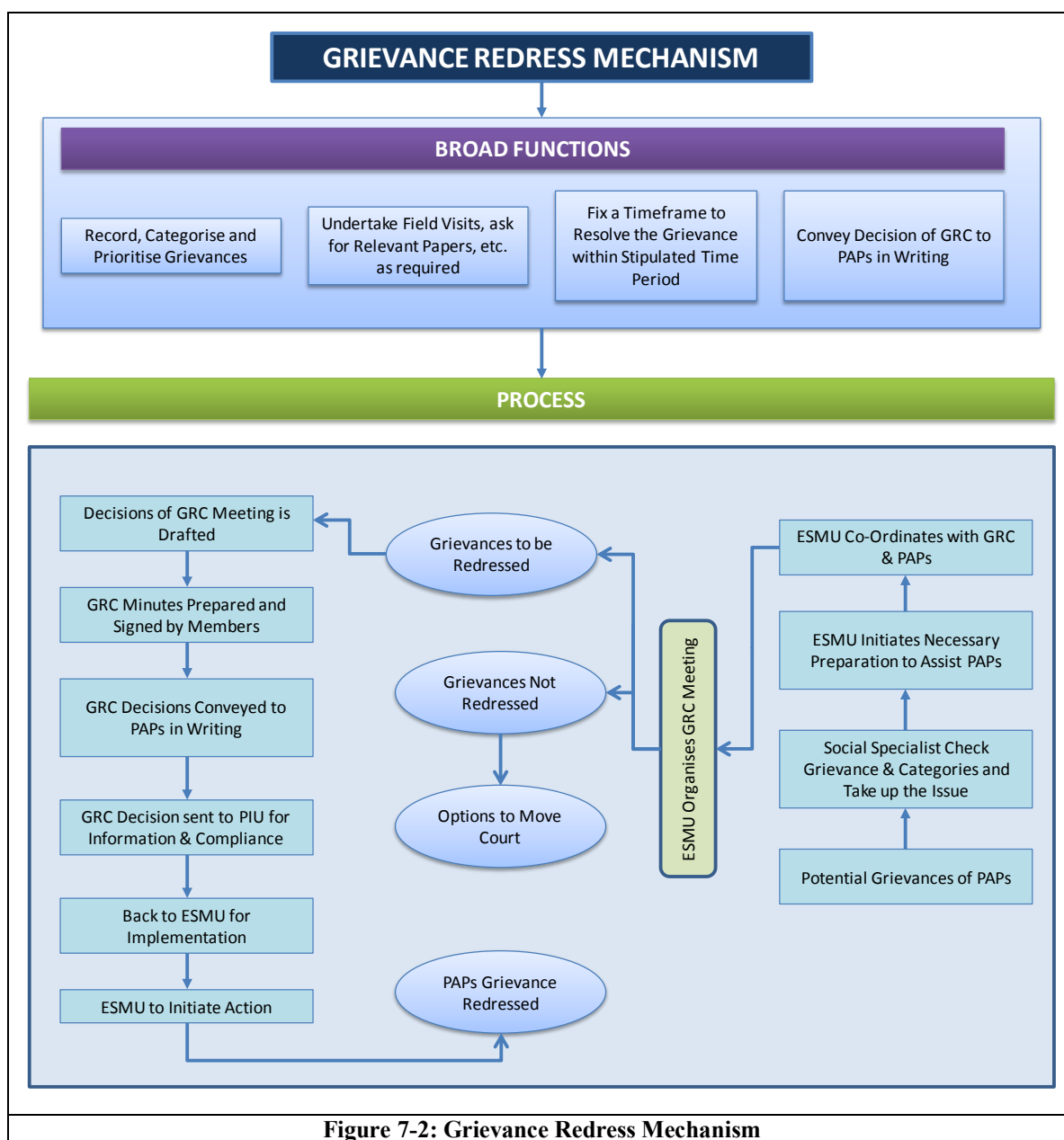
73. GRC will be responsible for the following:

- Support PAPs in resolving issues related to R&R and LA;
- Record grievance and resolve them within stipulated time;
- Inform PIU about any serious cases; and
- Report to the aggrieved parties about the decisions of the PIU.

74. ESMU will provide all necessary help to PAPs in presenting his/her case before the GRC. The GRC will respond to the grievance within 15 days. The GRC will normally meet once in a month but may meet more frequently, if the situation so demands. A time period of 45 days will be available for redressing the grievance of EPs. The decision of the GRC will not be binding to PAPs. This means the decision of the GRC does not insist PAPs taking recourse to court of law, if he/she so desires. Broad functions of GRC are as under:

- Record the grievances of PAPs, categorize and prioritize them and provide solution to their grievances related to resettlement and rehabilitation assistance.
- The GRC may undertake site visit, ask for relevant information from Project Authority and other government and non-government agencies, etc in order to resolve the grievances of PAPs.
- Fix a time frame within the stipulated time period of 45 days for resolving the grievance.

- Inform PAPs through ESMU about the status of their case and their decision to PAPs for compliance.
75. The GRC will be constituted within 3 months by an executive order from GoG from the date of mobilization of RAP implementing NGO.



### 7.1.6 Income Restoration Measures

76. The basic objective of income restoration activities is that no project-affected person shall be worse off than before the project. Restoration of pre-project levels of income is an important part of rehabilitating individuals, households, and socio-economic and cultural systems in affected communities. Income restoration (IR) schemes will be designed in consultation with affected persons so as to benefit them. Based on the information collected on IR activities through the census socio-economic surveys, the implementing NGO will identify suitable IR programme for the affected persons. Steps to be followed for income restoration include:

- Identification of target groups and choosing respective income restoration activities – NGO needs to identify the affected persons and prepare a list of feasible income restoration options. While identifying

IR options, the following factors shall also be considered: (i) education level of affected persons, (ii) skill possession, (iii) likely economic activities in the post-displacement period, (iv) extent of land left, (v) suitability of economic activity to supplement the income, and (vi) market potential and marketing facilities. Based on socio-economic characteristics and options preferred by affected persons, the NGO may have to assign trades to affected persons. The NGO will assist in identifying appropriate alternative economic rehabilitation schemes through counseling and consultation.

- Training: option for training on skill enhancement for those losing their livelihood has been provided in the Entitlement Matrix. The beneficiary group includes employees in shops, agricultural labours, sharecroppers, squatters and vulnerable people. Training programmes will be conducted by PIU with assistance from NGO. Periodic review meeting will be carried out by the PIU to assess the efficacy of training programmes and corrective measures, if required, will be suggested for coordination with various training institutes/departments.
- Identification of Training Institutes/Departments: based on trades selected, NGO shall have to identify the training institute for different trades / activities who can provide on the job training. The suggested institutes include:
  - Education Department, Govt. of Gujarat (self employment programmes for women);
  - Tribal Development Department, Govt. of Gujarat (Vanbandhu KalyanYojana);
  - Department of Social Justice and Empowerment; Scheduled Caste Economic Development Corporation (Economic Upliftment Schemes for Scheduled Castes and women); and
  - Commissionerate of Rural Development, Govt. of Gujarat.
- Training Arrangement: NGO shall group the affected persons based on their preferred trades and make all the arrangements such as fixing the venue etc.
- Monitoring: After training, the contracted M&E agency shall carry out the monitoring. Internal monitoring is the responsibility of PIU with support from PMC.

#### **7.1.7 Public Consultation and Disclosure**

77. The Disclosure Policy of GSHP-II formulated by R&BD, GoG states that the Policy intends to enhance transparency in decision making process during implementation phase, including those for procurement, financial management, social and environmental safeguards, and to comply with all legal requirements under Right to Information Act, 2005.

78. In order to make the RAP implementation process transparent, a series of public disclosure meetings will be arranged. The RAP Executive Summary along with RPF, translated in Gujarati language will be disclosed through public consultations and will also be made available through GSHP Website (<http://gshp2.gujarat.gov.in>). The following project specific information related to social safeguards will be disclosed on the website. Relevant topics (first 10 bullet points) shall be disseminated by the implementing NGO among the community to elicit participation.

- Details of construction phase;
- Work opportunities for local labour;
- Notification process;
- Process relating to issuance of identity cards and preparation of microplans;
- Compensation and assistance payment;
- Details of social/cultural and religious properties to be relocated;
- Details of Grievance Redress Committee, its procedures and mechanism;
- Complaint handling procedures;
- NGOs role in implementation of RAP;
- Approved resettlement action plan;
- Approved entitlement matrix;
- Village-wise area of government and private land to be acquired;

- Disbursement status of compensation and assistance given to respective PAPs;
- Details of public consultation;
- Details of compensation given to land looser and PAP (Quarterly);
- Details of benefits of project to the public;
- Details of NGO involved in implementation of RAP;
- Progress Reports.

79. The objective of the consultations is to (i) understand the view of the affected persons on rehabilitation and resettlement issues; and (ii) facilitate delivery of appropriate and acceptable entitlement options.

80. The process and proceedings of such consultations shall be documented and PIU respond to the issues raised during the consultations.

### **7.1.8 Complaint Handling Mechanism**

81. Being a project involving large scale of civil works along with implementation of RAP/IPDP/HPP, the project is likely to receive suggestions, complaints, inquiries, etc. R&BD recognizes the importance of this and hence intends to address such issues through the Complaints Handling Procedures for GSHP-II, under which a centralized monitoring of all the complaints received from and through various mechanisms / individuals can efficiently take place under the information of WB.

82. Complaints Handling Procedure ensures that any citizen can lodge complaints with (i) any officer not below the rank of executive engineer in charge of the work, and (ii) any officer in charge of the redress systems in vogue in the state. Complaints related to (i) project services (new proposal/alteration in the scope of project, ongoing /completed project services in the areas of quality, procurement, R&R, environment and inaction/delayed action) and (ii) personnel (misbehaviour, corruption, service matter).

83. Complaints Handling Procedures assigns SE, PIU as the Chief Complaint Handling Officer with set roles and responsibilities. He is mainly responsible for complaints not related to personnel. Complaints related to personnel require to be dealt with as per the existing system. Training to the employees working under WB wing needs to be given for clear understanding of the procedures involved and to treat the complaints as an opportunity for improvement and not to discriminate / antagonize the complainant in future dealings.

### **7.1.9 Mechanism for Training and Capacity Building**

84. Training and development of project staff is an integral part for implementation GSHP-II. Training needs identification shall be carried out at State level (PIU), Regional level (Divisional offices of R&BD) and at Field level, based on which focused training modules shall be developed. This is with the objective of (i) strengthening in-house capacity to implement the RPF/RAP/IPDP/HPP; (ii) creating awareness, providing the tools for implementation and accompanying set of management procedures to all departments; and (iii) developing competence within key officials to provide training in their respective level.

85. The topics for training and capacity building includes:

86. Introduction to social & R&R issues (R&R policies at state/national/international level, social issues pertaining to R&R ( participation of women, poverty assessment, anti poverty programmes, highway related diseases, road safety, transparency, right to information);

87. Land acquisition (Acts, policies, valuation of land, concept of replacement value, /market value, institutional mechanism etc.);
88. Social Impact Assessment and RAP/IPDP/HIV/AIDS Awareness, prevention plan (social screening, census survey, socioeconomic survey, methodology, focus group discussions, institutional survey, free, prior informed consultation, data analysis report preparation);
89. Resettlement Policy Framework (category of PAPs, category of impacts, valuation of assets (land, structure, crops, trees, community assets, etc.), entitlements, women and vulnerable groups, temporary impacts, disruption/damage during construction and respective mitigation measures);
90. RAP/IPDP/IPDP/HPP implementation (updating PAP database, joint verification of affected structures/land and affected population, preparation of Micro Plan, grievance redress procedures, conflict resolution packages, assistance and training for income restoration, monitoring and evaluation of social safeguards implementation.
91. The training programs are to be conducted with the help of local, state and national level training institutions and experts in various aspects of social management and safeguard issues. PIU will also identify courses offered by the premier institutions in India on social management and safeguard issues and enable participation of project staff. Towards enhancing the capacity of the R&BD engineers on social safeguards management, R&BD has over the past few years deputed engineers for participation in various safeguards training and capacity building programs.

#### **7.1.10 Coordination with Civil Works and Certification**

92. The resettlement program will be co-coordinated with the timing of civil works. The required co-ordination has contractual implications, and will be considered in procurement and bidding schedules, award of contracts, and release of cleared CoI sections to project contractors. The project will provide adequate notification, counselling and assistance to affected persons so that they are able to move or give up their assets without undue hardship before commencement of civil works and after receiving the compensation.
93. Actions to be completed prior to bid and award of contract include: (i) resettlement action plan should be approved by the GoG; (ii) the action plan should be disclosed in the web site and other public places accessible to the local people; (iii) the first notification for private land acquisition should be issued; (iv) the issue of identity cards to eligible PAPs should be completed.
94. The actions to be completed prior to handing over the stretch to the contractor includes: (i) acquisition of private land should be completed and compensation for land and assistance as per entitlement matrix should be disbursed; and (ii) transfer of Government land should be completed or no objection should be obtained from the land owning agency.

95. **RAP Implementation Schedule is provided** in Table 7.5. This provides the key benchmarks of implementing RAP. The construction tenure of the corridor is 24 months<sup>14</sup>. The on-ground rehabilitation and resettlement exercises and handing over the encumbrance free stretch for civil works will take 5 months and simultaneously, the NGO will carry out awareness programmes on road safety, HIV/AIDS prevention campaign, repeat training for PAPs, facilitate overall monitoring, etc.

---

<sup>14</sup> The construction tenure of individual corridors ranges from 18 months to 30 months spread across an overall period of 36 months and accordingly, R&BD has envisaged tenure of 36 months for the RAP implementing NGO.



**Table 7.5: RAP Implementation Schedule**

ACTIVITY	MONTHS																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<b>Mobilising Personnel and Training</b>																								
M&E Consultant / PMC in place		■																						
NGO in place	■	■																						
GRC in place	■	■																						
Training for PIU/ESMU Personnel	■																							
Training for NGOs	■																							
Information Campaign and Community Consultation		■	■					■						■						■				
<b>Compensation / R&amp;R / Clearance of Col</b>																								
Verification of PAPs, listing of assets affected, measurement of structures, categorization of PAPs		■	■																					
ID Card distribution		■	■																					
Preparation of Micro Plan and approval		■	■	■																				
Opening joint account of PAPs		■	■	■																				
Payment of compensation		■	■	■																				
Payment of R&R assistance		■	■	■																				
Clearance of RoW for civil works		■	■	■																				
Consultations (intermittant)		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Skill and training needs assessment		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Identification of government schemes		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Enrollment into government schemes		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Training of PAPs for income restoration schemes		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Consultation for relocation/rehabilitation of Community assets/Cultural properties		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Awareness programmes with respect to HIV/AIDS		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Awareness on Road Safety		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Repeat training of PAPs for new vocation		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Monitoring and Evaluation</b>																								
Internal Monitoring		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
External Monitoring and Evaluation		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Project Completion Survey		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Project Completion Survey Report		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

## 8. RESETTLEMENT BUDGET

96. Summary of Resettlement Costs The cost for compensation for loss of various components such as land, structure, compensation for other assets within affected property, resettlement and rehabilitation assistance has been estimated. The estimated total budget for the implementation of RAP is INR. 3.02 million.

**Table 8-1: RAP Budget**

Sr. No.	Category	Amount (INR)
1	Compensation for Land	148,379
2	Compensation for Structure and Cultural property	1,361,500
3	Compensation for other assets within affected property (Trees)	90,000
4	Compensation for Encroachers	277,724
5	R&R Assistance	1,055,526
6	<b>Sub Total (1+2+3+4+5)</b>	<b>2,933,129</b>
7	Contingency (@3%)	87,994
8	<b>GRAND TOTAL (Sub Total + Contingency)</b>	<b>3,021,123</b>

### 8.1.1 Compensation for Land

97. Compensation for the loss of agricultural land shall be provided to all the titleholders. The cost of land has been calculated based on the latest Jantri Rates (2011) collected from Department of Stamp Duty and Registration, GoG (Table 8-2). The project will not affect any government land.

**Table 8-2: Compensation for Land**

Number of improvements	Chainage		Village	Total Area (ha)	Total Area (sq. m)	Jantri Rate (sq. m)	Total cost (INR)
	From	To					
1	3+052	3+232	Hamidpura	0.19	1927	77	148,379
2	3+331	3+490					
3	3+730	3+850					
4	<b>Total</b>						

### 8.1.2 Compensation for Structures

98. Compensation for structures shall be provided for the loss of commercial, residential or mixed-use structures. Compensation shall be as per the latest Schedule of Rates of R&BD. Different unit rates of compensation have been adopted based on the type of construction materials used as stated below:

- Barbed Wire Fencing @ INR 500;
- Gate @ INR 3000 / running meter ;
- Pucca Structures @ INR 13130 / sqm.; and
- Commercial structure @INR 40,000/.

**Table 8-3: Compensation for Structure**

Sr. No.	Type of Structures	Unit	Unit Rate(Rs/ sq. m)	Total Cost (INR)
1	Commercial Structure (numbers)	30	40,000	1,200,000
2	Community assets/cultural properties (pucca )	12.3	13,130	161,500
3	Total			1,361,500
<b>Compensation for Encroachers</b>				
4	Commercial	Boundary wall (sq.m.)	38.2	119,184
		Gate RM (1@5m)	1	15,000
		Barbed wire Fencing@ RM	25	12,500
5	Farm House	Boundary Wall (Sq.m.)	42	131,040
6	Total			<b>277,724</b>

### 8.1.3 Compensation for Other Assets

99. A total of 18 trees (private) are affected within the property. The total cost and unit rates for trees are as follows:

- Tree @ INR 5000

**Table 8-4: Compensation for other Assets**

Sr. No.	Assets	Unit Rate(Rs.)	Numbers/sq. m	Total Cost (INR)
1	Tree	5000	18	90,000

### 8.1.4 R&R Assistance

100. R&R assistance has been estimated based on the provisions of the proposed Entitlement Matrix. The total cost estimated for R&R assistance is INR 1,055, 526.

**Table 8-5: R&R Assistance**

Category of PAP	Entitlement	Number of Person	Assistance (INR)	Amount (INR)
Squatters (Commercial and Residential)	Shifting Allowance	30	5,000	150000
	Training Assistance	30	15,000	450000
Vulnerable people	Training Assistance	9	15,000	135000
Additional support to ST households	Financial Assistance	3	60,000	180,000
Ex-gratia land owners losing upto 500 sq.m of land in lieu of all other benefits.	Ex-gratia	2	20,000	40,000
Total				955,000
Total R&R Assistance(Extrapolated) <sup>15</sup>				1,055,526

101. An amount of INR 29.6 million is earmarked for cost of trainings, RAP implementing NGO, monitoring and evaluation, awareness programmes on road safety, HIV/AIDS awareness, etc., for all the project corridors to be taken up in the first phase. Escalation of these components have been considered at an annual inflation rate of 7% based on consumer price index and the escalated amount for Year-I is INR 31.7 million and for Year-II, the amount is INR 33.9 million.

<sup>15</sup> Extrapolated budget for 4 more PAHs

# **Gujarat State Highway Project - II**

Volume-V A:  
Appendices to RAP

**Appendix 1-1****Chainage wise Details of Proposed Treatment  
(Umreth -Vasad including Ladvel-Kapadvanj)**

From (km)	To (km)	Length (km)	Existing Width	Proposed Formation Width	Proposed Carriageway Width	Proposed hard Shoulder Width	Remarks
<b>Kapadvanj-Ladvel</b>							
19.125	31.425	12.3	7	12	7+1.5	1	
31.425	31.7		10	10	10	0	
31.7	32.06681	0.36681	10	10	10	0	
<b>Umreth Vasad</b>							
0	0.65	0.65	7+1+7	18.5	7.5+1.5+7.5	1	
0.65	0.806	0.156	7	18.5	7.5+1.5+7.5	1	
0.806	0.871	0.065	7				TAPER
0.806	1.686	0.88					
1.686	1.751	0.065	7				TAPER
1.751	2.5	0.749	7	12	7+1.5	1	
2.5	3	0.5	10	12	7+1.5	1	
3	3.325	0.325	10	12	7+1.5	1	
3.325	3.425	0.1	10	12	7+1.5	1	
3.425	3.725	0.3	7	12	7+1.5	1	
3.725	4.025	0.3	10	12	7+1.5	1	
4.025	7.175	3.593	7	12	7+1.5	1	
7.175	7.4	0.508	10	12	7+1.5	1	
7.4	7.618	1.894	7	12	7+1.5	1	
7.618	7.683	0.065	7				TAPER
7.683	9.294	1.611	7+0.8+7	19.5	7.5+1.5+7.5	1	from 8+990 to 9+200 Footpath exists on both sides 1.5m with
9.294	9.359	0.065	7				
9.359	17.335	7.976	7	12	7+1.5	1	
17.335	17.4	0.065	7				TAPER
17.4	18.225	0.825	10	19.5	7.5+1.5+7.5	1	
18.225	19.138	0.913	7	19.5	7.5+1.5+7.5		
<b>Vasad-Sarsa</b>							
0	0.088	0.088	7	12	7.5+1.5+7.5	1	
0.088	2.6	2.512	7	12	7+1.5	1	
2.6	3.7	1.1	7.5	8	7.5	0	Expresssway Approach No shoulders
3.7	8.1	4.4	7	12	7+1.5	1	
8.1	8.9	0.8	7	2+7+2	2+7+2		
8.9	9.119	0.219	7	12	7+1.5	1	
9.119	9.184	0.065	7	18.5	7.5+1.5+7.5	1	

### Appendix 3-1: Socioeconomic Profile of Corridor Settlements and Talukas

**Table 1: Population distribution and Sex ratio in talukas abutting Umreth-Vasad including Kapadvanj- Ladvel corridor**

Sr. No.	Talukas	Population		AAGR (2001-2011)	Sex Ratio	
		2001	2011		2001	2011
1	Umreth	162428	188296	1.5	917	925
2	Anand	513900	606671	1.7	904	924
3	Kapadvanj	229681	273076	1.7	928	940
	<b>Total</b>	<b>906009</b>	<b>1068043</b>	<b>1.7</b>	<b>912</b>	<b>928</b>

Source: Census 2001 and 2011

**Table 2: Juvenile Sex ratio for talukas abutting Umreth-Vasad including Kapadvanj- Ladvel corridor, 2001 and 2011**

Sr. No.	Talukas	2001	2011
1	Umreth	847	877
2	Anand	823	866
3	Kapadvanj	891	910
	<b>Total</b>	<b>847</b>	<b>880</b>

Source: Census 2001 and 2011

**Table 3: Literacy Rate for talukas abutting Umreth-Vasad including Kapadvanj- Ladvel Corridor, 2001 and 2011**

Sr. No.	Talukas	2001			2011		
		Total	Male	Female	Total	Male	Female
1	Umreth	49	60	37	61.2	69.2	52.5
2	Anand	58	65	50	69.3	73.6	64.6
3	Kapadvanj	46	57	34	62.2	70.1	53.7
	<b>Total</b>	<b>53</b>	<b>62</b>	<b>44</b>	<b>66.0</b>	<b>71.9</b>	<b>59.7</b>

Source: Census 2001 and 2011

**Table 4: Urban population in talukas abutting Umreth-Vasad including Kapadvanj- Ladvel Corridor, 2001 and 2011**

Sr. No.	Talukas	2001	2011	% of urban population to taluka population, 2001	% of urban population to talukas population, 2011	AAGR (2001-2011)
1	Umreth	32191	33783	20	17.9	0.5
2	Anand	254750	344,338	50	56.8	3.1
3	Kapadvanj	43950	49289	19	18.0	1.2
	<b>Total</b>	<b>330891</b>	<b>427410</b>	<b>37</b>	<b>40.0</b>	<b>2.6</b>

Source: Census 2001 and 2011

**Table 5: Composition of workers by sector in project corridor talukas, 2001**

Sr. No.	Talukas	Cultivators	Agricultural	Household	Others
1	Umreth	28.0	42.3	1.4	28.4
2	Anand	12.0	32.8	1.7	53.6
3	Kapadvanj	32.4	22.6	1.0	44.1
	<b>Total</b>	<b>21.1</b>	<b>31.6</b>	<b>1.4</b>	<b>45.9</b>

Source: Census 2001 and 2011

**Table 6: Workforce Participation Ratio (in %) for Talukas abutting Corridor, 2001**

Sr. No.	Talukas	Total	Male	Female
1	Umreth	43.9	55.7	31.1
2	Anand	36.6	52.7	18.9
3	Kapadvanj	47.1	55.2	38.4
	<b>Total</b>	<b>40.6</b>	<b>53.9</b>	<b>26.1</b>

Source: Census 2001

**Table 7: Villages and settlements along project corridor, 2001: Socio Economic Features**

Sr. No.	Name	Total population	HH size	Sex Ratio	Juvenile Sex ratio	Pop below_06years	Literacy Rate (in %)	Literacy rate Male (in %)	Literacy rate Female (in %)	SC (% to total)	ST (% to total)
1	Anklavdi	2281	4.8	895	856	375	43	54	30	3.1	0.0
2	Bechari	3322	5.4	944	884	535	43	55	30	2.3	0.0
3	Garod	3723	5.2	937	841	589	40	54	24	1.5	2.7
4	Hamidpura	2265	5.2	873	826	283	52	65	37	4.8	0.8
5	Kapadvanj	43950	5.2	939	910	5542	59	65	53	6.5	3.8
6	Khambholaj	8212	5.0	920	784	981	55	63	46	4.4	3.1
7	Lasundra	7539	4.8	886	904	1133	41	55	26	4.1	2.1
8	Navapura	557	5.0	989	1047	88	48	61	34	6.3	1.4
9	Ode (M)	18459	5.3	914	826	2222	56	65	46	3.6	1.0
10	Rampura (Sundarvadi)	1989	5.2	900	929	355	30	46	12	4.3	0.0
11	Sarsa	14200	5.3	914	783	1735	59	66	51	5.5	1.7
12	Savali	2465	4.9	998	1149	434	42	59	25	5.9	2.0
13	Sorna	2197	4.9	949	911	323	47	59	35	10.0	0.0
14	Umreth (M)	32191	5.3	928	825	3855	58	64	51	3.8	1.4
15	Vaherakhadi	7045	5.4	863	773	1016	42	53	30	2.8	1.9
16	Vasad	12487	5.0	880	856	1551	60	65	54	7.9	7.5
17	<b>Total</b>	<b>162,882</b>	<b>5.2</b>	<b>920</b>	<b>884</b>	<b>21017</b>	<b>55</b>	<b>63</b>	<b>46</b>	<b>5.0</b>	<b>2.6</b>

Source: Census 2001

**Table 8: Workers composition and WPR (in %) by sector, 2001**

Sr. No	Villages	Cultivators	Agricultural	Household	Others
1	Anklavdi	17.3	69.3	0.9	12.6
2	Bechari	38.1	49.6	0.4	11.9
3	Garod	47.6	13.9	0.7	37.8
4	Hamidpura	28.4	59.6	2.2	9.8
5	Kapadvanj	1.7	0.7	1.6	95.9
6	Khambholaj	17.0	61.3	0.9	20.9
7	Lasundra	30.6	54.5	0.8	14.1
8	Navapura	29.6	46.6	0.0	23.9
9	Ode (M)	26.6	42.7	2.2	28.4
10	Rampura (Sundarvadi)	40.2	28.4	0.6	30.9
11	Sarsa	18.5	46.2	0.5	34.9
12	Savali	49.5	27.9	0.1	22.4
13	Sorna	34.4	22.9	0.3	42.4
14	Umreth (M)	10.2	17.3	2.4	70.2
15	Vaherakhadi	28.4	51.6	0.6	19.4
16	Vasad	10.7	17.4	2.4	69.5
	<b>Total</b>	<b>18</b>	<b>29</b>	<b>1</b>	<b>51</b>

Source: Census 2001

**ROADS AND BUILDINGS DEPARTMENT, GOVT. OF GUJARAT**  
**PPWCS, GUJARAT STATE HIGHWAY PROJECT-II,**  
**CENSUS AND SOCIO ECONOMIC SURVEY OF PROJECT AFFECTED HOUSEHOLDS**

Form No. \_\_\_\_\_ Date \_\_\_\_\_

Name of Investigator \_\_\_\_\_

Name of Supervisor \_\_\_\_\_

ID No. \_\_\_\_\_ Chainage \_\_\_\_\_ Distance of Structure from C/L: \_\_\_\_\_

Address: \_\_\_\_\_ Village: \_\_\_\_\_ Block: \_\_\_\_\_ District: \_\_\_\_\_

Phone No: \_\_\_\_\_ Mobile No. \_\_\_\_\_ P/S: \_\_\_\_\_ P/O. \_\_\_\_\_

**1. Type of the Use**

1	Residential	2	Commercial	3	Mixed (C+R)	4	Industrial	5	Petrol Pump	6	Farm House	7	Government
8	Agricultural	9	Orchard	10	Under construction	11	Open land/Plot	12	Plantation	13	Grazing	14	Religious
15	Community Assets			16	Others (specify)			17	Others (specify)				

**2. Type of Loss due to the project**

1	Structure	2	Land	3	Land and structure	4	Livelihood	5	Others (.....)				
---	-----------	---	------	---	--------------------	---	------------	---	----------------	--	--	--	--

**3. Type of Ownership:**

1	Private	2	Government	3	Trust	4	Temple	5	Community	6	Others (.....)		
---	---------	---	------------	---	-------	---	--------	---	-----------	---	----------------	--	--

**4. Ownership Status of Property user**

1	Titleholder	1	If Titleholder, any portion of the land or structure (or both) encroached into government land						Yes	1	No	2			
2	Non-Titleholder	2	If non-titleholder, specify category		1	Leased	2	Tenant	3	Squatter	4	Sharecropper	5	Others (specify)	

**5a. Survey No.** \_\_\_\_\_ **/House No.** \_\_\_\_\_

<b>5b. Total Land Holding:</b>	<b>Bigha</b>		<b>Acre</b>		<b>Hectare</b>	
	<b>Sq.ft</b>		<b>Sq.m</b>		<b>other</b>	

**5c.** Number of agricultural labourers working in the field (other than family members) – use separate sheet for each labourer (address question 20 to 29)**5d.** Since how long does the agricultural labourer working in the same farm (number of months)**6. Extent of Impact**

1	Partial	2	Full
---	---------	---	------

**7a. Age of Building** \_\_\_\_\_ **7b. No. of Years Occupied** \_\_\_\_\_ **7c. Legal electricity connection**Yes 1 No 2 **8. Which Floor?****7.d. Legal Property Document**

Yes 1 No 2

**7e. Name of head of HH:** \_\_\_\_\_ **7f. S/o** \_\_\_\_\_

G 1

**9. If Tenant/Lessee:**

G+1 2

Name and Address of the owner \_\_\_\_\_

G+2 3

**10. If the property is on rent then the amount of rent being paid per month:**

Rs. \_\_\_\_\_

**11. Assets affected in the Property**

S. No	Assets	Units Owned	S. No	Assets	Units Owned	S. No	Assets	Units Owned
1	Trees		8	Motor Pump		15	Temple	
2	Dug Well		9	Boundary Wall		16	Seating around Tree	
3	Tube Well		10	Barbed Wire Fencing		17	Country Stove	
4	Open Well		11	Cattle Shed		18	Bathroom	
5	Water Tap		12	Temporary Shed		19	Others	
6	Water Tank		13	Washing place				
7	Hand Pump		14	Shrine				



**12. Structure types Details**

Wall	Reed	Bamboo	Cane	Mud	Brick	Others
	①	②	③	④	⑤	⑥
Roof	Thatch	Tin	Asbestos	Tiles	RCC	Others
	①	②	③	④	⑤	⑥
Floor	Mud	RCC	Tiles	Marble	Stone	Others
	①	②	③	④	⑤	⑥

**13. Social Category**

1.	Scheduled Caste (SC) [Community Name _____]							1	
2.	Scheduled Tribe (ST) [Community Name _____]							2	
3.	Primitive Tribe Group [Community Name _____]							3	
4.	Other Backward Community (OBC)							4	
5.	General							5	
13a	Religion	Hindu	Muslim	Christian	Sikh	Jain	Buddhist	Others	
		①	②	③	④	⑤	⑥		
14	Whether Woman Headed Household					Yes	1	No	2
15	Family Type		Joint	1	Nuclear	2			

**16. What type of business are you doing, in case of commercial use**

S. No	Category	Options							
1.	Refreshments	Tea Stall	Dhaba	Sweet Shop	Hotel	Restaurant	Motel	Pan Shop	Others
		①	②	③	④	⑤	⑥	⑦	⑧
2.	Service Industry	Tailoring	Hair Cutting	Cobbler	Blacksmith	Two wheeler repair	Four wheeler Repair	Cycle repair	Others
		①	②	③	④	⑤	⑥	⑦	⑧
3.	Retail Activity	Grocery	Chemist	Furniture	Petrol Pump	Electric Shop	Hardware	Electronics	Others
		①	②	③	④	⑤	⑥	⑦	⑧
4.	Other Services	STD/PCO	Photocopy	Weighing bridge	Godowns	Cold Storages			Others
		①	②	③	④	⑤			⑧
5.	Institutional	School	Government Offices	PHC/CHC	Veterinary Hospital	Anganvadi			Others
		①	②	③	④	⑤			⑧
6.	Industry	Cotton/ginning	Chemical	Oil Extraction	Dairy				Others
		①	②	③	④				⑧
7.	Manufacturing Unit	Stone/quarry	Building materials	Cast iron					Others
		①	②	③					⑧
8.	Small-scale	Food	Agri-processing						Others
		①	②						⑧

17. Capital Investment on Business (at the time of initiating business). Land (Rs.) \_\_\_\_\_ Structure (Rs.) \_\_\_\_\_ Material (Rs.) \_\_\_\_\_

18. Value of the property [opinion of the respondent]: Land Cost (Rs.) \_\_\_\_\_, Structure cost (Rs.) \_\_\_\_\_

**19. Socio-economic profile**

Codes for Relationship with Head of the Household															
1	Head of Household	2	Wife	3	Husband	4	Son	5	Daughter	6	Son-in-law	7	Daughter-in-law	8	Grandfather
9	Grandmother	10	Grandson	11	Grand daughter	12	Brother	13	Sister	14	Brother-in-law	15	Sister-in-law	16	Father
17	Mother	18	Father-in-law	19	Mother-in-law	20	Grandson-in-law	21	Grand daughter-in-law	22	Uncle	23	Aunt	24	Cousin
25	Nephew	26	Niece	27	Any other (specify):										
<b>Member Number</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>			
<b>A. Name</b>													Write down the names of all people who live and eat together in this household starting with head.		
<b>B. Relationship</b>															
<b>C. Sex</b>	<b>Is the NAME male or female?</b>														
	M	M	M	M	M	M	M	M	M	M	M	M	M		
	F	F	F	F	F	F	F	F	F	F	F	F	F		
<b>D. Age</b>	<b>How old was NAME on the last birthday?</b>														
														Record the age on last birthday	
<b>E. Marital Status</b>	①	①	①	①	①	①	①	①	①	①	①	①	①	Married	
	②	②	②	②	②	②	②	②	②	②	②	②	②	Unmarried	
	③	③	③	③	③	③	③	③	③	③	③	③	③	Divorced	
	④	④	④	④	④	④	④	④	④	④	④	④	④	Separated	
	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Widow/Widower	
	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	Single Un-wed mother	
<b>F. Education</b>	<b>The class till which the person has been educated.</b>														
	①	①	①	①	①	①	①	①	①	①	①	①	①	Illiterate	
	②	②	②	②	②	②	②	②	②	②	②	②	②	Primary (Upto Class 3)	
	③	③	③	③	③	③	③	③	③	③	③	③	③	High School (Class 4 - 7)	
	④	④	④	④	④	④	④	④	④	④	④	④	④	Secondary (Class 8 - 10)	
	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Higher Secondary (Class 11 - 12)	
	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	Vocational	
	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	Higher (Graduate or higher)	
⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	Technical (Graduate or higher)		
<b>G. Physical/mental disabilities</b>	<b>Is the NAME physically or mentally challenged?</b>														
	①	①	①	①	①	①	①	①	①	①	①	①	①	Yes	
	②	②	②	②	②	②	②	②	②	②	②	②	②	No	
<b>H. Occupation</b>	<b>Is the NAME working?</b>														
	①	①	①	①	①	①	①	①	①	①	①	①	①	Yes	
	②	②	②	②	②	②	②	②	②	②	②	②	②	No	
	<b>What is the main activity at the place of job?</b>												This may have multiple entries		
	①	①	①	①	①	①	①	①	①	①	①	①	①	Artisans	
	②	②	②	②	②	②	②	②	②	②	②	②	②	Farmer	
	③	③	③	③	③	③	③	③	③	③	③	③	③	Agriculture Labour	
	④	④	④	④	④	④	④	④	④	④	④	④	④	Business/Trade	
	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Govt. Service	
	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	Private service	
⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	Industrial labour		
⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	Construction labour		
⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	Housemaid		
⑩	⑩	⑩	⑩	⑩	⑩	⑩	⑩	⑩	⑩	⑩	⑩	⑩	Others (specify)		
<b>I. Working Days</b>														Number of working days in a month	
<b>J. Reason for not working</b>	<b>What was the main reason for the NAME not working?</b>												Persons who are not working		
	①	①	①	①	①	①	①	①	①	①	①	①	①	No work available	
	②	②	②	②	②	②	②	②	②	②	②	②	②	Seasonal inactivity	
	③	③	③	③	③	③	③	③	③	③	③	③	③	Household family duties	
	④	④	④	④	④	④	④	④	④	④	④	④	④	Old (>65 yrs)	
	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Student	
	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	Physically Challenged	
⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	Not willing to work		
<b>K. Income</b>	<b>How much does the NAME earn in a month (Rs.)</b>														

Member Number	1	2	3	4	5	6	7	8	9	10	11	12		
<b>L. Skills</b>	<b>Any skill possessed by the person?</b>													
	①	①	①	①	①	①	①	①	①	①	①	①	①	Tailoring
	②	②	②	②	②	②	②	②	②	②	②	②	②	Electrical
	③	③	③	③	③	③	③	③	③	③	③	③	③	Plumbing
	④	④	④	④	④	④	④	④	④	④	④	④	④	Electronic / Watch Repair
	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Lather works
	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥	Handicraft
	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	Carpentry/masonry
⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	Others (specify)	
<b>M. Possession of Documents</b>	<b>Whether the NAME possess the documents or NAME member in any</b>													
	①	①	①	①	①	①	①	①	①	①	①	①	①	APL Ration Card (if included in the Card)
	②	②	②	②	②	②	②	②	②	②	②	②	②	BPL Ration Card (if included in the Card)
	③	③	③	③	③	③	③	③	③	③	③	③	③	Voters ID Card
	④	④	④	④	④	④	④	④	④	④	④	④	④	Driving Licence
⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Job ID Card of NREGS (if yes, mark) If yes, provide Job ID number	
<b>N. Beneficiary of any other govt schemes</b>	①	①	①	①	①	①	①	①	①	①	①	①	Yes	
	②	②	②	②	②	②	②	②	②	②	②	②	No If yes, name of the scheme	
<b>O. Participation</b>	<b>Whether the NAME participates in the following</b>													
	①	①	①	①	①	①	①	①	①	①	①	①	①	Casted vote in the last legislative assembly/parliament election
	②	②	②	②	②	②	②	②	②	②	②	②	②	Casted vote in the last panchayat/local body election
	③	③	③	③	③	③	③	③	③	③	③	③	③	Whether member of any political party
	④	④	④	④	④	④	④	④	④	④	④	④	④	Whether member of any CBO/religious body, etc.
	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	Whether holds any position in such organisations If yes, mention the position Name of the Organisation

**20. Major and Minor Impact**

A. After the acquisition of land / structure, will you able to continue farming / business in the unaffected land / structure	Yes	①	No	②
B. If No, are you willing to give up the residual land / structure to the project authority against suitable compensation or assistance	Yes	①	No	②
C. Whether any plans or possibility to relocate outside the RoW	Yes	①	No	②
D. Any suggestion of the respondent with respect to que.20.				

**21. Rehabilitation Options**

S. No.	Resettlement Options	Choice (√)	Priority (1,2,3...)
1	Alternative shop/residence		
2	Employment during project construction		
3	Employment during maintenance		
4	Training to improve the skill level		

S. No.	Resettlement Options	Choice (√)	Priority (1,2,3...)
5	Provide land against land		
6	Self-relocation		
7	Others (specify)		
8	Others (specify)		

**22. Assets Owned (other than affected one)**

Agricultural Properties				Other Properties				Other Assets (livestock)
Irrigated/Wet Land	Un Irrigated/Dry Land	Orchard/Waste/Barren/Horticulture Land	Equipment	House Plot	House	Farm House	Business Establishment	
Area	Area	Area	Number	Area	Area	Area	Area	Number
Value	Value	Value	Value	Value	Value	Value	Value	

**23. Agriculture (only affected crop)**

Name of Crop	Cropping pattern in a year			Yield Per Acre	Farmgate Price (Rs/quintal)
	Single	Double	Thrice		

**24. Household Expenditure (Amount in Rs)**

Total household expenditure monthly (approximate in Rs.)			Rs.		
Sl. No.	Category	(Rs.)	Sl. No.	Category	(Rs.)
1	Food (Monthly)		6	Health (Monthly/Annual)	
2	Education (Monthly/Annual)		7	Cooking fuel (Monthly)	
3	Cloth (Monthly/Annual)		8	Social Functions (Annual)	
4	Local Travel (Monthly)		9	Vehicle Maintenance (Monthly / Annual)	
5	Leisure (Monthly/Annually)		10	Out Station travel (Monthly / Annual)	

**25. Debts: (Amount in Rs)**

Total household debt (approximate in Rs.), if any			Rs.		
Sl. No.	Category	(Rs.)	Sl. No.	Category	(Rs.)
1	Crop/Agriculture Loan		4	Loan on vehicles	
2	Loan on Assets		5	Loan for education	
3	Jewell Loan		6	Personal Loan.	

**26. Household Items**

Sl. No.	Items	Yes / No		Sl. No.	Items	Yes / No	
1	TV	Yes	No	7	Food processor / Mixer / Grinder	Yes	No
2	Refrigerator	Yes	No	8	Computer / Laptop	Yes	No
3	Two Wheeler	Yes	No	9	Air Conditioner	Yes	No
4	Four Wheeler	Yes	No	10		Yes	No
5	Telephone/Mobile Phone	Yes	No	11		Yes	No
6	Washing Machine	Yes	No	12	Others (specify)	Yes	No

**27. Health Status**

1	Have you or any family members been affected with any disease (consider for last one year)			Yes	1	No	2
2	If yes, type of disease (mention name of disease)	Respiratory	Digestive	Gynec related	Eye related	Ortho related	General
		①	②	③	④	⑤	⑥
2.a	If others (specify)	If others (specify)			If others (specify)		

**28. Drawing of the Affected Structure / Land with measurement** [Total area and affected area of structure as well as land to be recorded – assets like hand pump, borewell, trees, agri crops, etc located within the affected area also to be recorded]

LHS	Sketch of Structure	RHS

**Note for Enumerators:**

- [1] Q.No.3. Confirm the availability of Patta and mark as owned / encroachment.
- [2] Q.No.4. Squatter: No legal ownership over the land occupied.
- [3] Q.No.19. All the relationship should be specified with respect to the household head only.
- [4] Q.No.29. Specify the distance from Centre Line to the property Boundary and Building Line. Mention all the dimensions of the building and plot boundaries in 'meters' only.
- [5] Women Headed Household: The households headed by woman member of the family who is the sole/leading bread-earner of the family.

**30. Travel Information (Multiple-response, Record for 5 most important Purposes of Travel)**

Sl. No.	Purpose of Travel	Distance (in Km)	Travel Time (in Minutes)	Mode of Travel	Expenditure on Transport (In Rs.)	Purpose of Travel	Code	Mode of Travel	Code
						Work place/agri field	1	Walk	1
						School	2	Bicycle	2
	1	2	3	4	5	Agri market	3	Auto-rickshaw	3
1						Local market	4	Mini-bus	4
2						Local town	5	2-Wheeler	5
3						District headquarter	6	4-Wheeler	6
4						Block headquarter	7	Bus	7
5						Others (specify)	8	Others (specify)	8

**APPENDIX 4.2: LIST OF IMPACTED PROPERTIES AND STRUCTURES**

Sr. No.	ID ref_Map	Chainage	RHS/LHS	Type of Structure/Land	Village	Taluka	District	Name of Head of HH
1	1	0+010	RHS	Shop	Umreth Chokdi	Umreth	Anand	Shankarbhai
2	2	0+015	RHS	Shop	Umreth Chokdi	Umreth	Anand	Bhanubhai Ambalal Sarniya
3	3	0+030	RHS	Shop	Umreth Chokdi	Umreth	Anand	Kanchlal rana
4	4	0+045	RHS	Shop	Umreth	Umreth	Anand	Laxmanbhai Shankarbhai Talpada
5	5	0+045	RHS	Shop	Umreth	Umreth	Anand	Rahulbhai Talpada
6	6	0+045	RHS	Shop	Umreth	Umreth	Anand	Kanubhai Talpada
7	7	0+170	LHS	Shop	Umreth	Umreth	Anand	Nareshkumar Shah
8	8	0+395	LHS	Shop	Umreth	Umreth	Anand	Pintubhai talpada
9	9	3+070	LHS	Agricultural Land	Hamidpura	Umreth	Anand	Patel Dineshbhai Parshottambhai
10	10	3+100	LHS	Agricultural Land	Hamidpura	Umreth	Anand	Patel Arvind Ramubhia
11	11	3+120	LHS	Agricultural Land	Hamidpura	Umreth	Anand	Patel Hansaben Pravinbhai
12	12	3+365	RHS	Agricultural Land	Hamidpura	Umreth	Anand	Patel Hasmukh Dahyabhai
13	13	3+400	RHS	Agricultural Land	Hamidpura	Umreth	Anand	Patel Kiritbhai Parshottambhai
14	14	3+425	RHS	Agricultural Land	Hamidpura	Umreth	Anand	Patel Chandubhai Manibhai
15	15	8+020	LHS	Shop	Ode	Anand	Anand	Ranjit parmar
16	16	8+100	RHS	Shop	Ode	Anand	Anand	Alpeshbhai
17	17	8+105	RHS	Shop	Ode	Anand	Anand	Monsingbhai Thakor
18	18	8+107	RHS	Shop	Ode	Anand	Anand	Samirbhai parekh
19	19	8+115	RHS	Shop	Ode	Anand	Anand	Rajubhai ravalji
20	20	8+330	RHS	Shop	Ode	Anand	Anand	Naresh patel
21	21	8+345	RHS	Shop	Ode	Anand	Anand	Chandrakant khristi
22	22	8+390	RHS	Shop	Ode	Anand	Anand	Prfulbhai Patel
23	23	8+440	RHS	Shop	Ode	Anand	Anand	Shivabhai nayar
24	24	8+445	RHS	Shop	Ode	Anand	Anand	Harshadbhai rohit
25	25	8+455	LHS	Shop	Ode	Anand	Anand	Dineshbhai luhar
26	26	8+485	LHS	Shop	Ode	Anand	Anand	Jitubhai thakor
27	27	9+090	LHS	Shop	Ode	Anand	Anand	rajlal gujjar
28	28	12+310	RHS	Shop	Ode	Anand	Anand	Parmar Vinubhai Shankarbhai
29	29	12+400 - 12+500	LHS	Poultry Farm	Khambholaj	Anand	Anand	Patel Kiritbhai Jasubhai
30	30	14+775	LHS	Shop	Khambholaj	Anand	Anand	Malek Hamidbhai Mohanbhai
31	31	15+480	LHS	Shop	Khambholaj	Anand	Anand	Solanki Natubhai Mahijibhai
32	32	15+650	LHS	Farm House	Khambholaj	Anand	Anand	Mohanbhai patel
33	33	18+280	RHS	(Commercial Establishment)	Sarsa	Anand	Anand	Patel Bharat Madhusudanbhai
35	34	18+300	LHS	Shop	Sarsa	Anand	Anand	Manojbhai patel
	35	18+600	RHS	Open Plot	Sarsa	Anand	Anand	Maheshbhai Chhaganbhai
36	36	0+020	LHS	Shop	Vasad	Anand	Anand	Manubhai parmar
37	37	1+825	LHS	Shrine	Anklavadi	Anand	Anand	NA
38	38	9+110	LHS	Shop	Sarsa	Anand	Anand	Chetanbhai Patel
39	39	9+130	LHS	Temple	Sarsa	Anand	Anand	NA
40	40	9+180	RHS	Shop	Sarsa	Anand	Anand	Parmar Maganbhai Prabhatbhai
41	41	22+730	LHS	Shop	Savli	Kapadvanj	Kheda	Mehbubhai dewan
42	42	31+490	LHS	Shop	Kapadvanj	Kapadvanj	Kheda	Bansaribhai

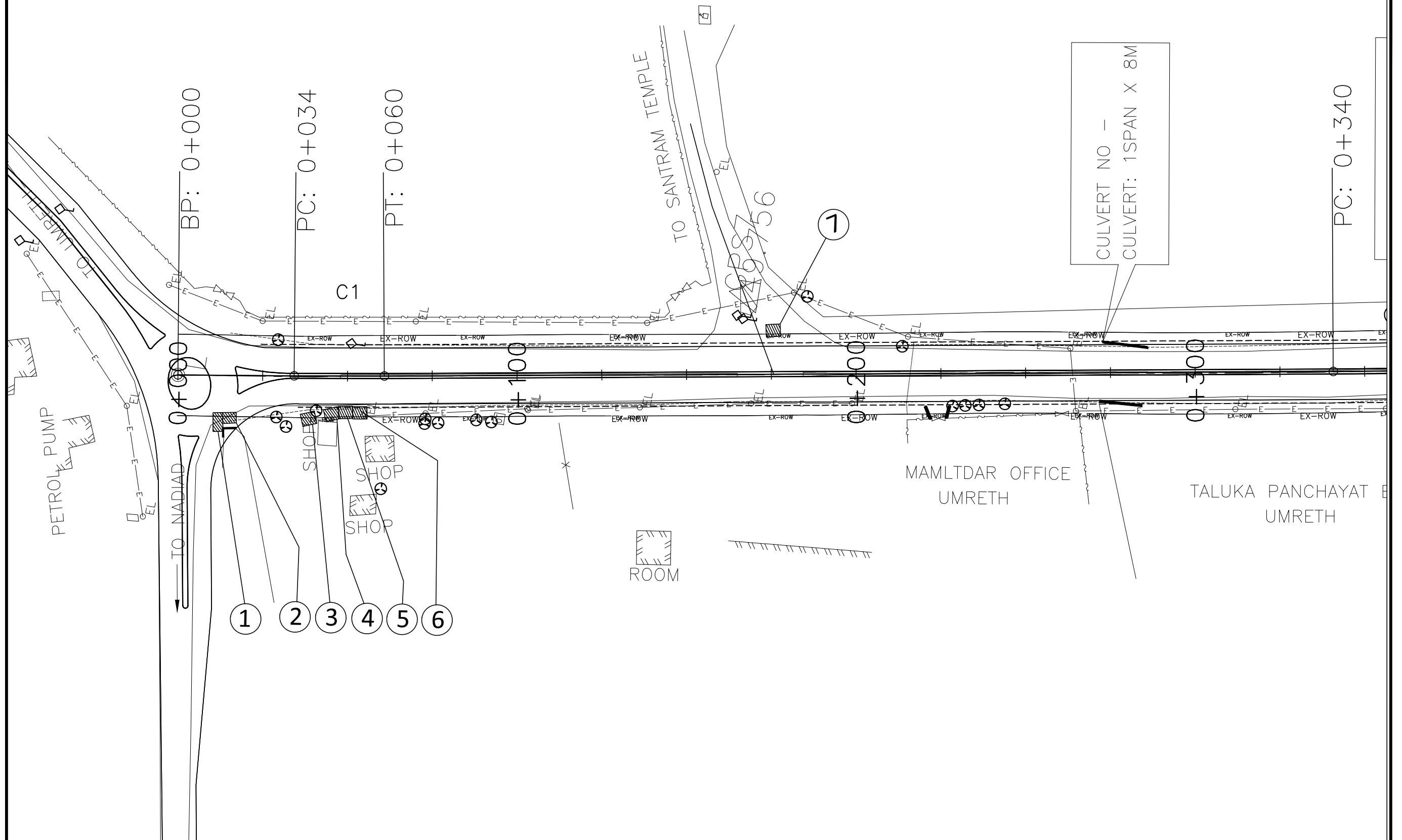
## **APPENDIX 4.3:**

### GIS MAP REPRESENTING IMPACTED PROPERTIES

---

← UMRETH

SARSA →



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:	DES-UV - R1				



← UMRETH

SARSA  
 CULVERT NO - 60  
 CULVERT: 1 SPAN X 3  
 PC: 0+512

CULVERT NO -  
 CULVERT: 1 SPAN X 8M

CULVERT NO -  
 CULVERT: 1 SPAN X 3M  
 PC: 0+368

PC: 0+340

PC: 0+402

PT: 0+423

PC: 0+445

PT: 0+512

TADAR OFFICE  
 UMRETH

TALUKA PANCHAYAT BHAVAN  
 UMRETH

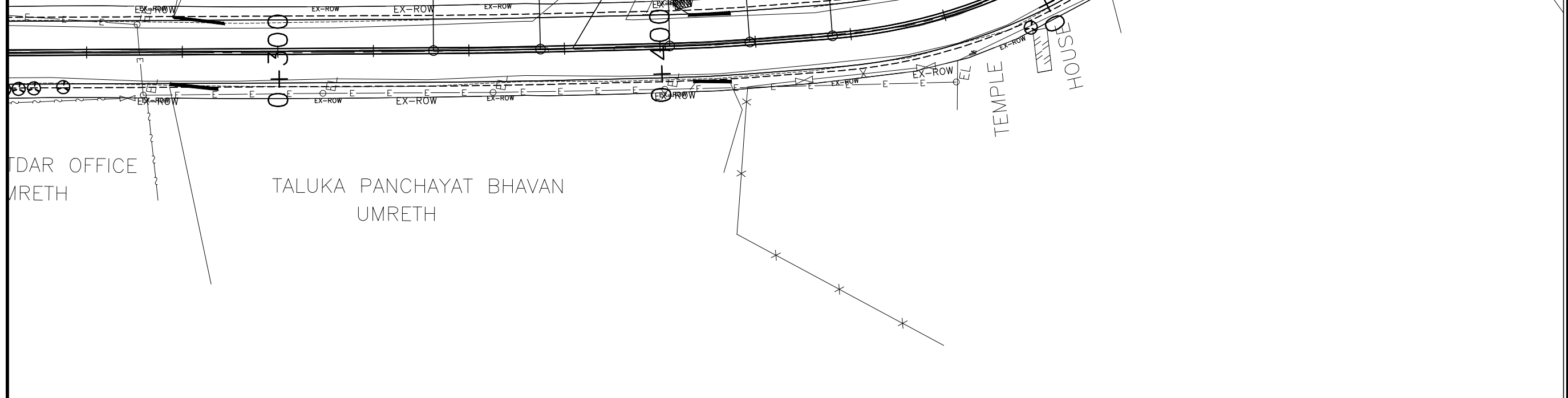
TO UMRETH  
 BAJAR

HOUSE  
 C4

HOUSE

TEMPLE

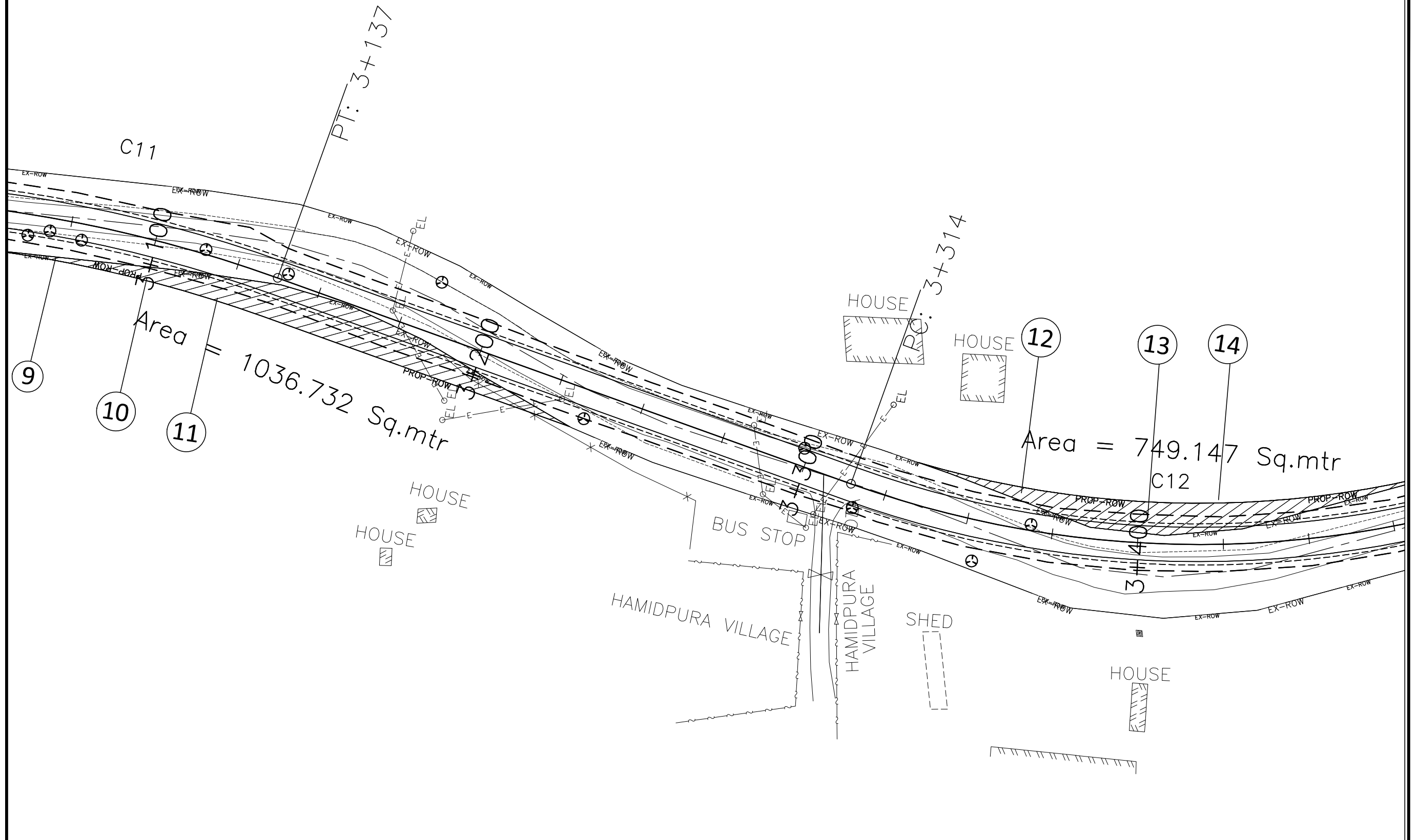
HOUSE



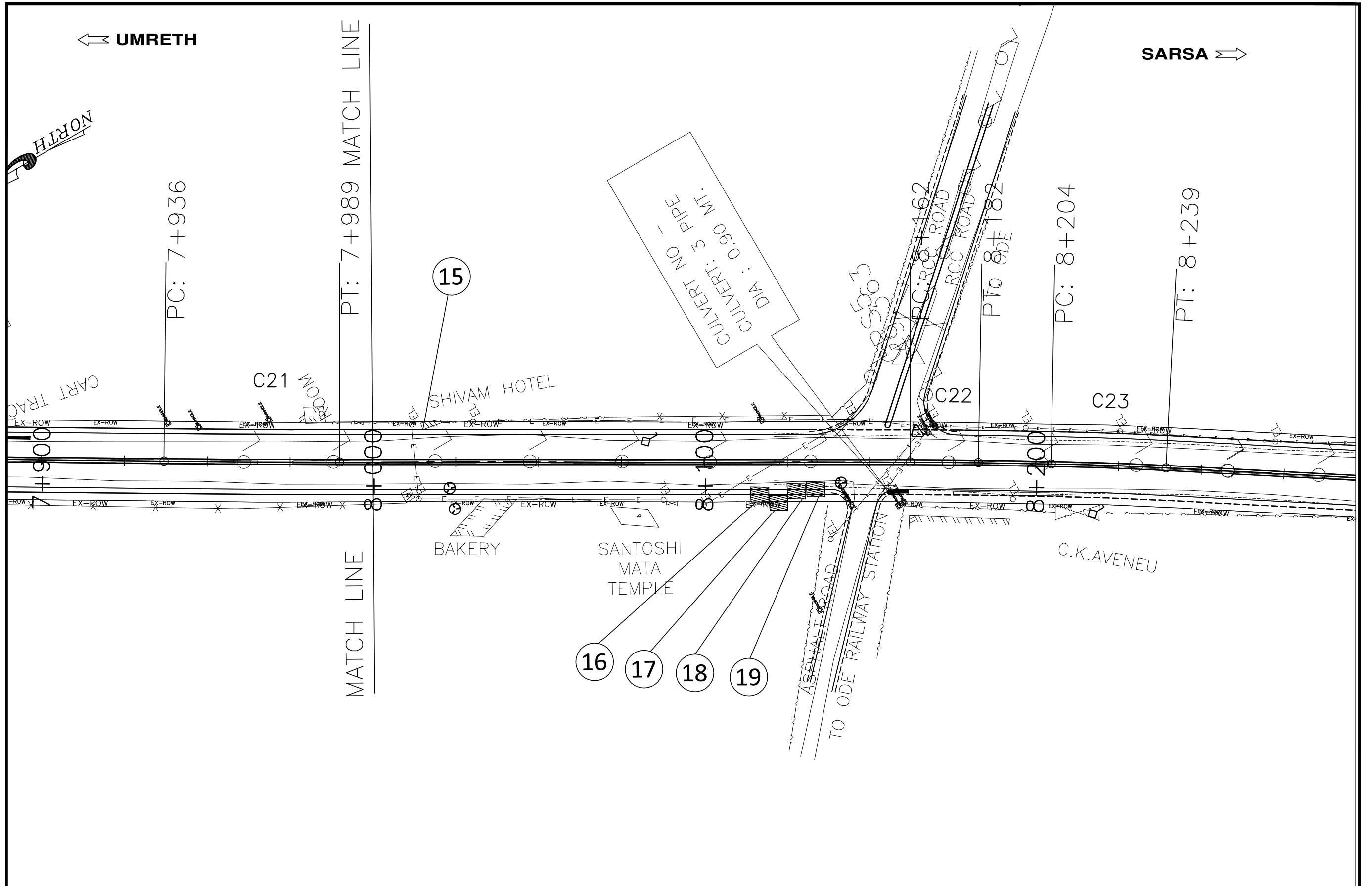
No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE: MAY'2012	PROJECT: PPWCS	DWG No: PPWCS/US/IS/02	REV: 0
				SCALE: 1:750					
				CAD FILE: DES-UV - R1					

← UMRETH

SARSA →



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:	DES-UV - R1				



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:					
				DES-UV - R1					

← UMRETH

SARSA →

PC: 8+204

PT: 8+239

C23

U/O SHOPS & FLATS

25

26

TS: 8+525

ST: 8+575

GARAGE

SHAKT

C.K.AVENEU

LAXMI HOTEL

SURAY KANTP  
PETROL PUMP  
ROOM

SHOP  
SHOP  
SHOP

20

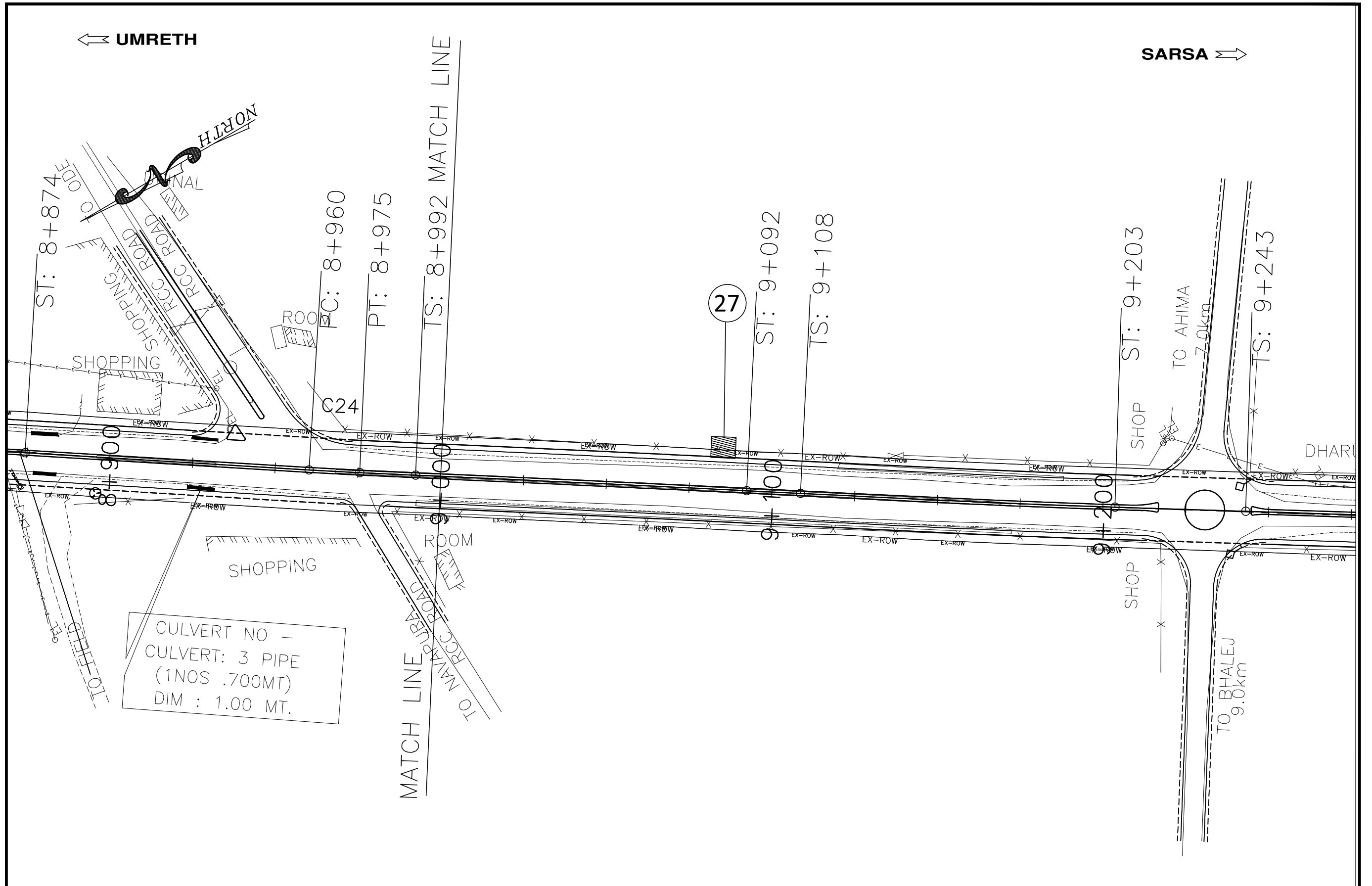
21

22

23

24

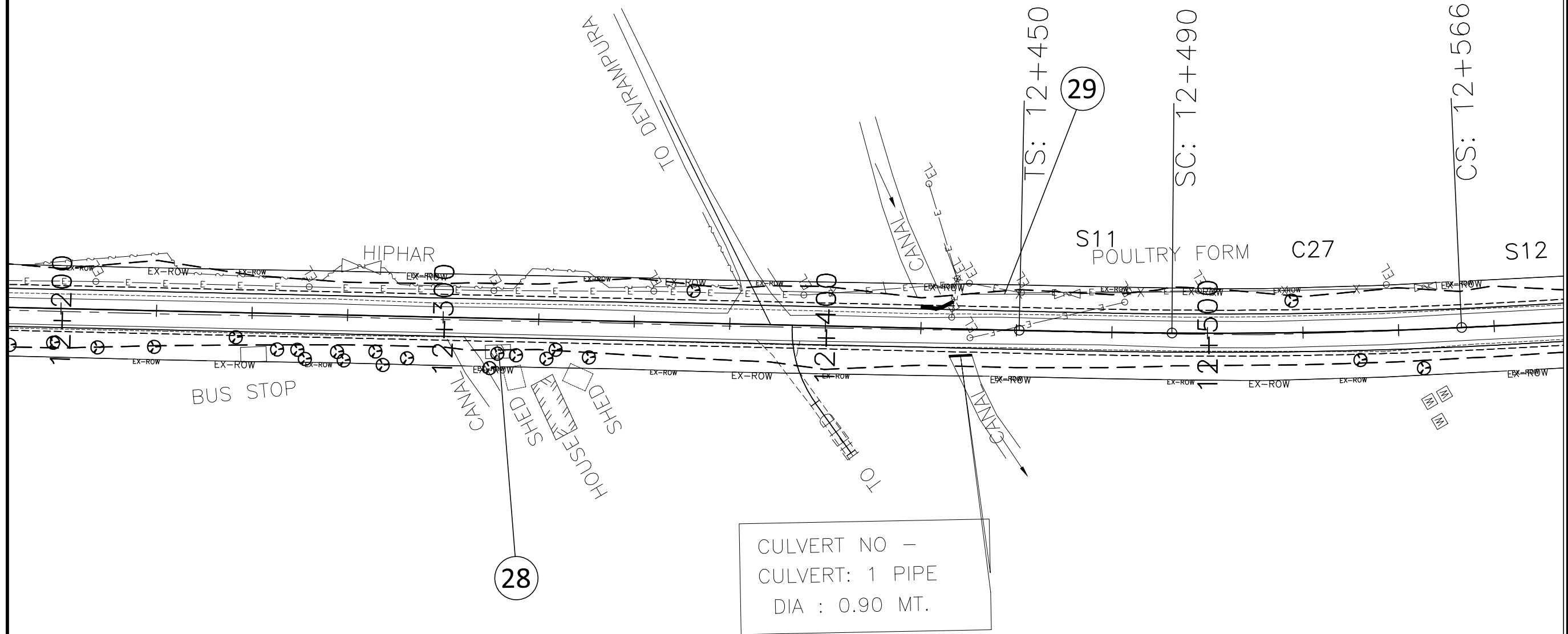
No.	REVISION	DATE	BY	SCALE :	CAD FILE: DES-UV - R1	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT			
				SCALE: 1:750		CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES			
						DATE: MAY'2012	PROJECT: PPWCS	DWG No: PPWCS/US/IS/05	REV: 0



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750		CAD FILE:	MAY'2012	PPWCS	PPWCS/US/IS/06

← UMRETH

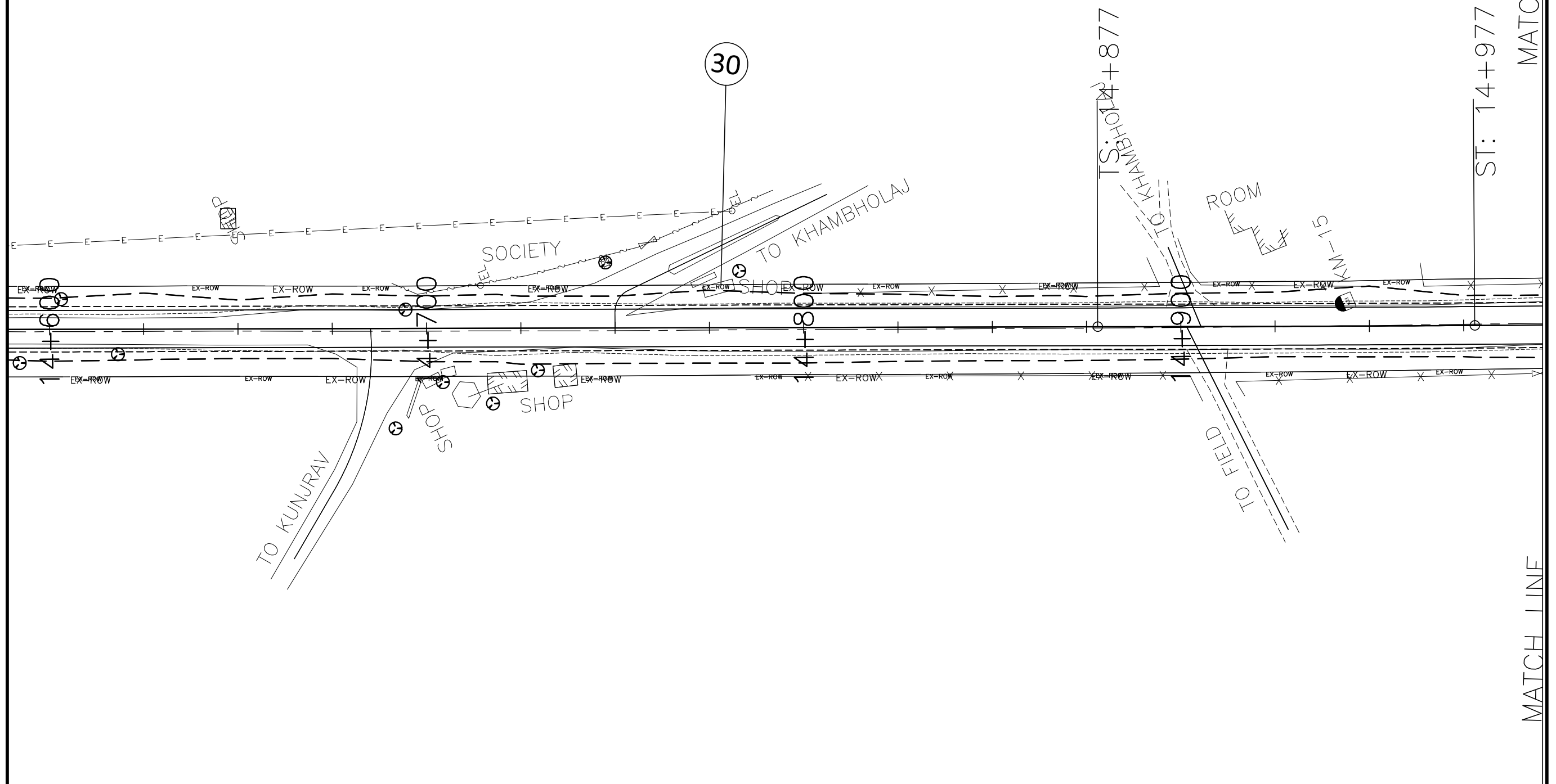
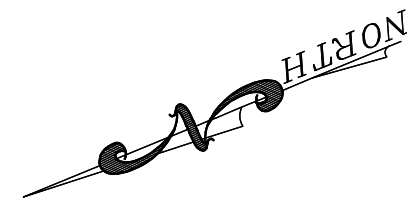
SARSA →



			SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT		
			SCALE: 1:750	CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES		
			CAD FILE: DES-UV - R1	DATE: MAY'2012	PROJECT: PPWCS	DWG No: PPWCS/US/IS/07
No.	REVISION	DATE	BY			REV. 0

← UMRETH

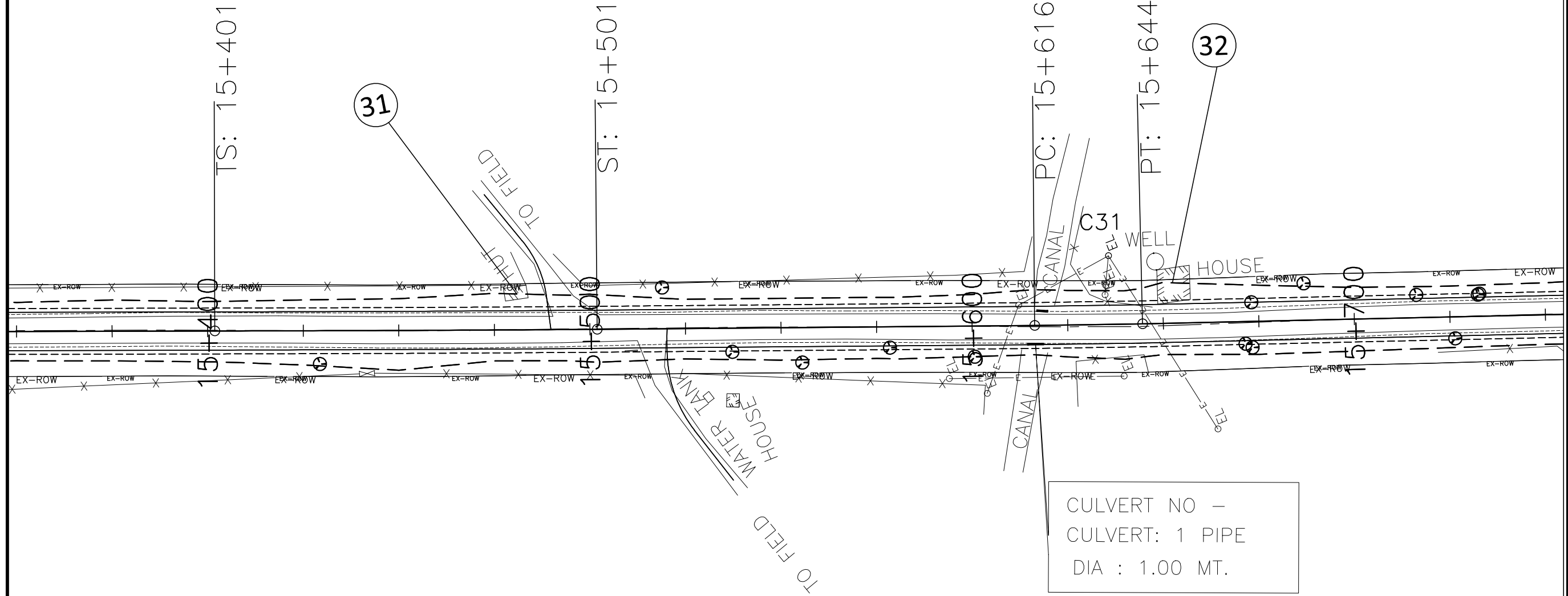
SARSA →



No.	REVISION	DATE	BY	SCALE :	<p>GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT</p> <p>CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES</p>	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:					
				DES-UV - R1					

← UMRETH

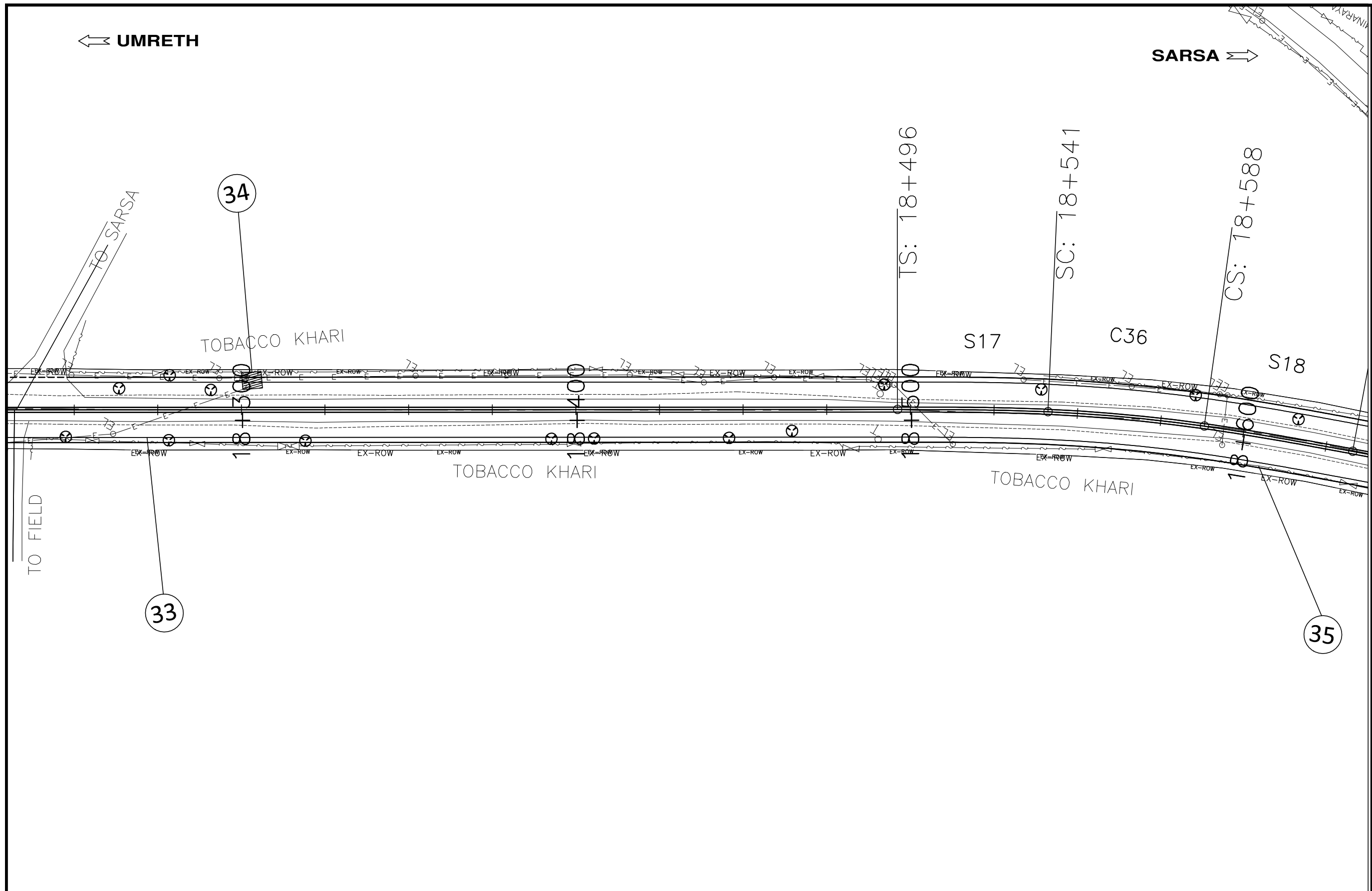
SARSA →



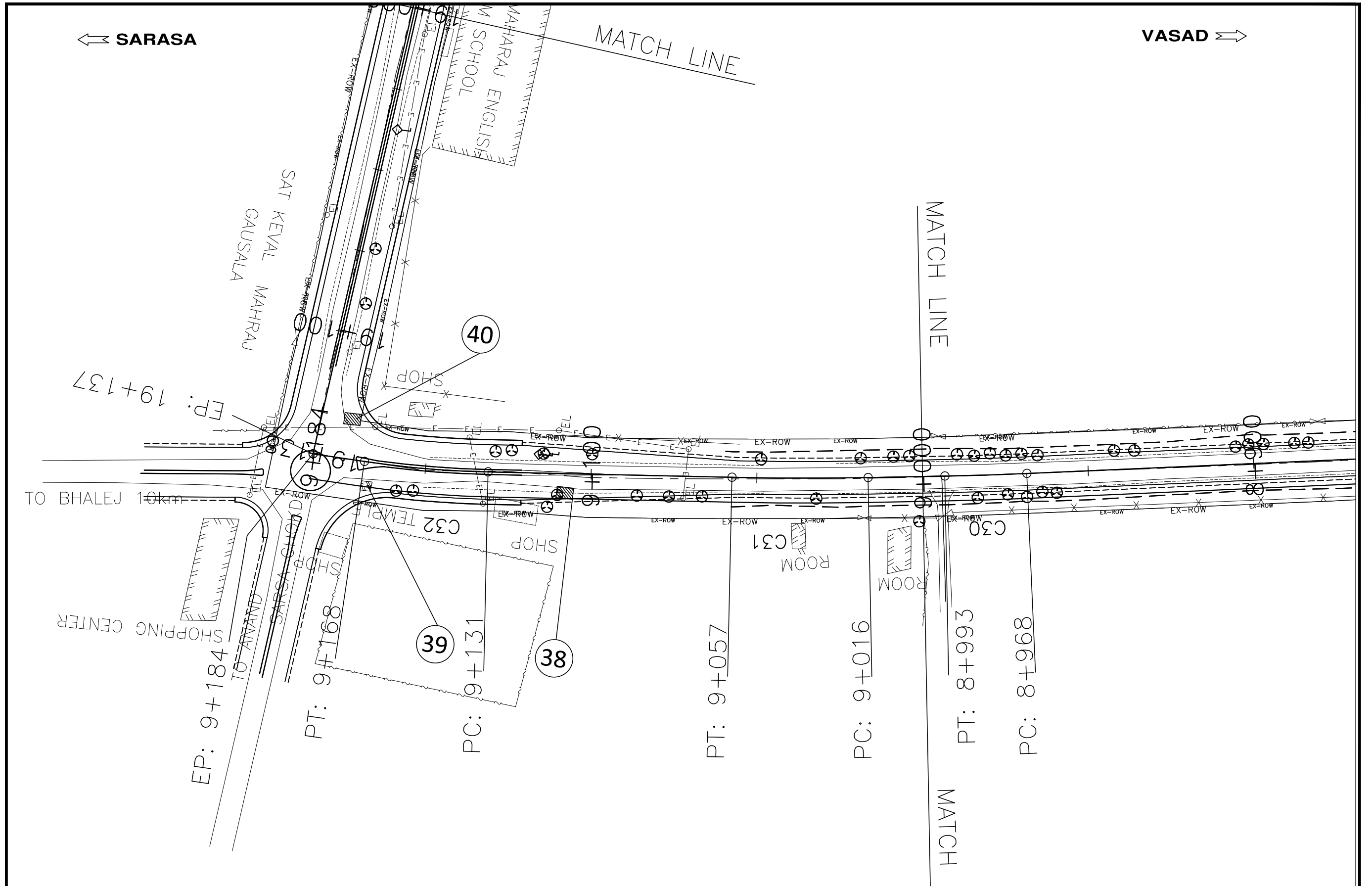
CULVERT NO -  
 CULVERT: 1 PIPE  
 DIA : 1.00 MT.

No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:					
				DES-UV - R1					





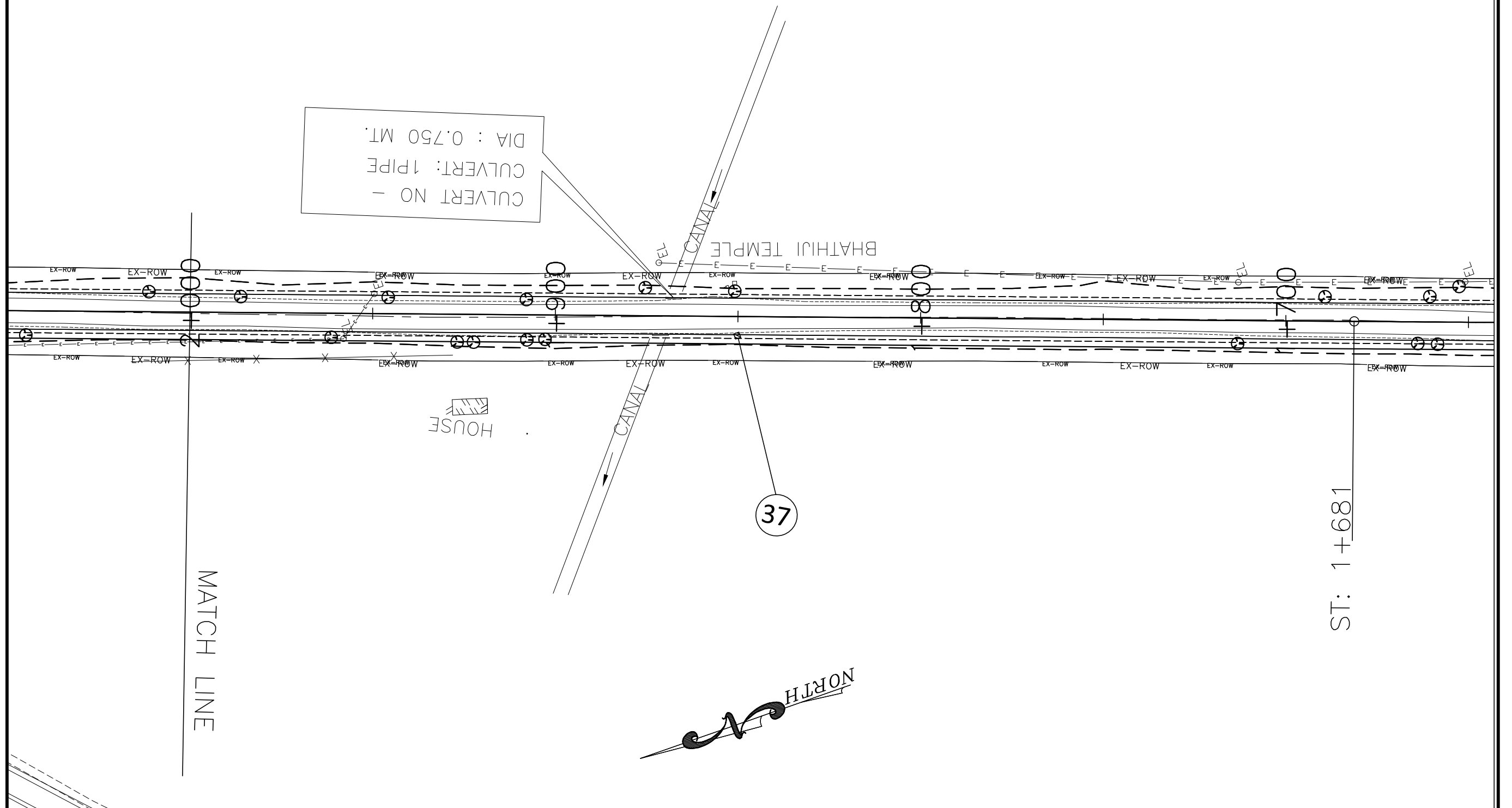
No.	REVISION	DATE	BY	SCALE :	DATE: MAY'2012	PROJECT: PPWCS	DWG No: PPWCS/US/IS/10	REV. 0
				SCALE: 1:750				
				CAD FILE: DES-UV - R1	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES			



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:					
				DES-UV - R1					

← SARSA

VASAD →



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:	DES-UV - R1				

← SARSA

VASAD →

HOTEL SHAHKAR

TOILET

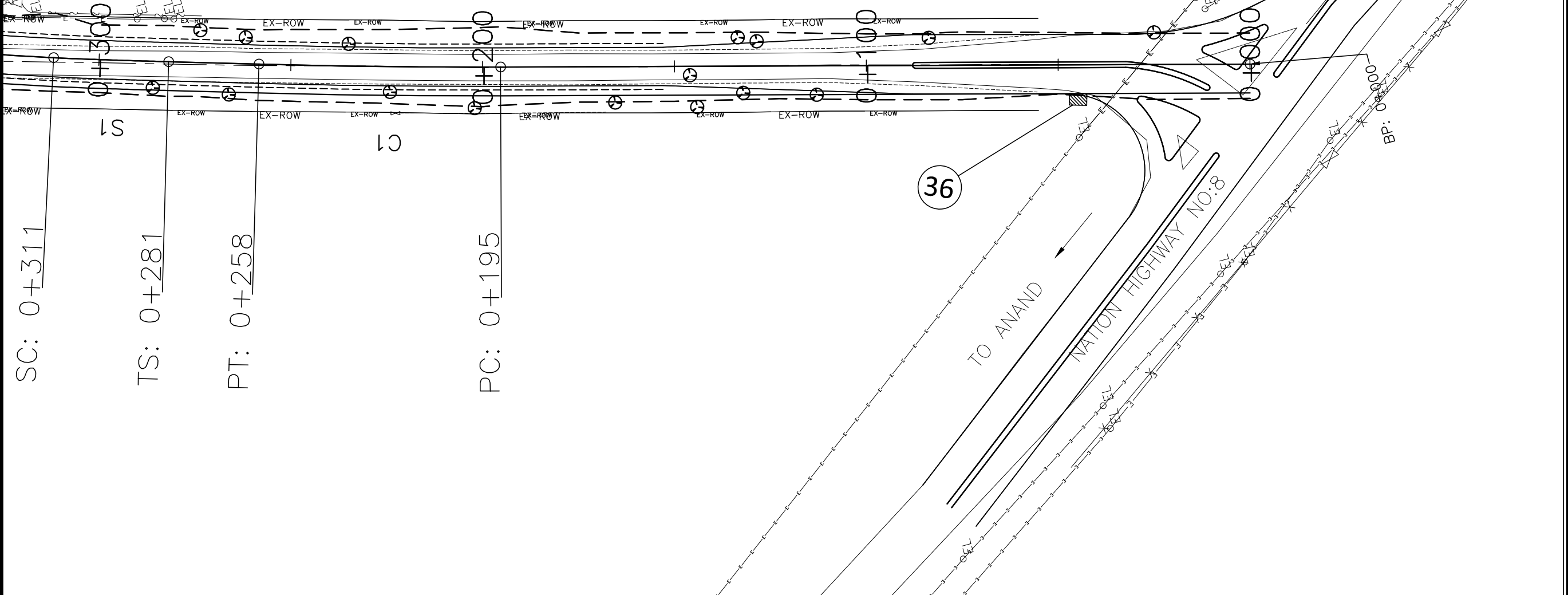
TO VASAD

36

TO ANAND

NATION HIGHWAY NO:8

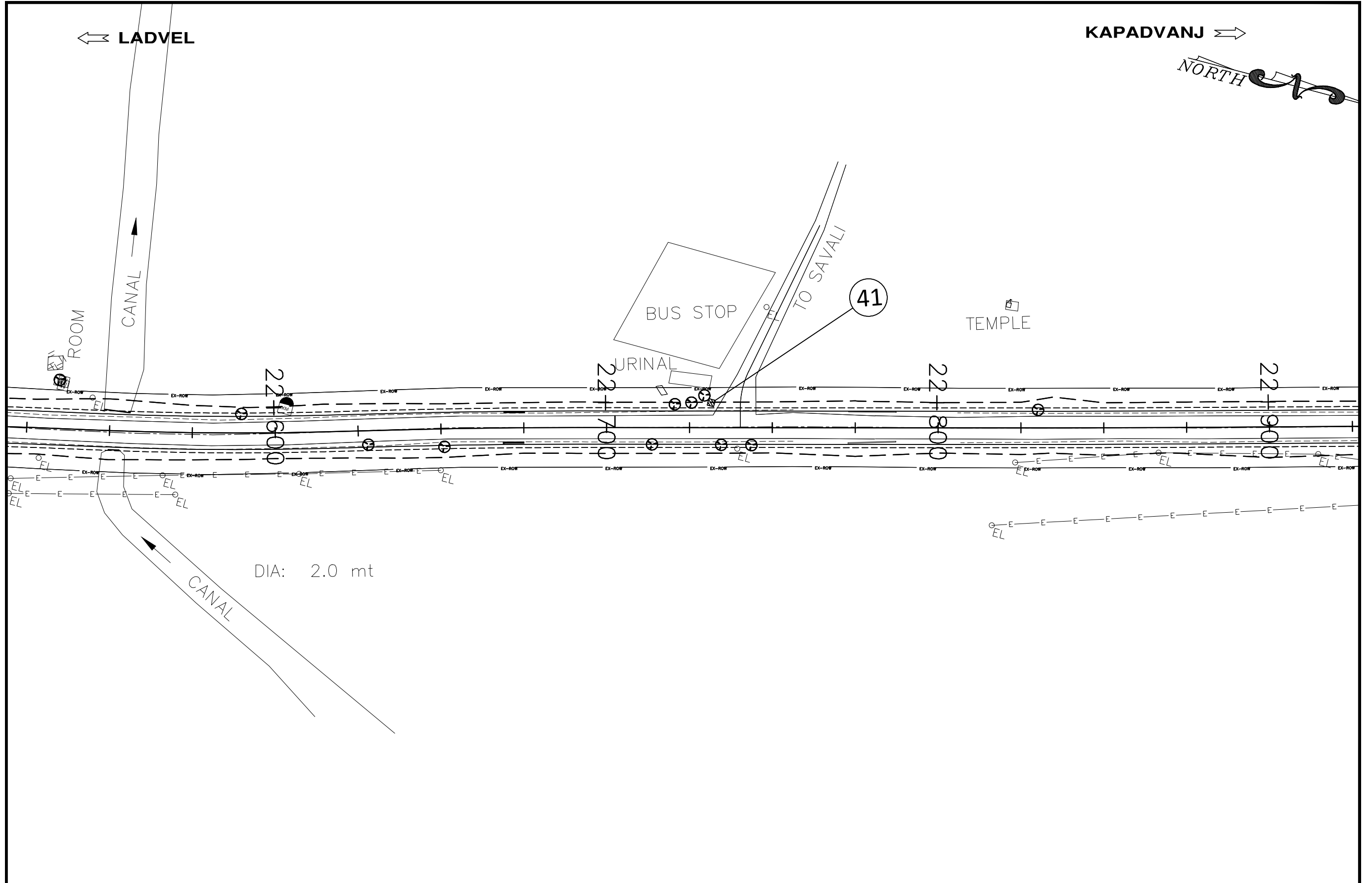
BP:



			SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT		
			SCALE: 1:750	CORRIDOR : UMRETH - VASAD (SH 83) IMPACTED STRUCTURES		
			CAD FILE: DES-UV - R1	DATE: MAY'2012	PROJECT: PPWCS	DWG No: PPWCS/US/IS/13
No.	REVISION	DATE	BY			REV. 0

← LADVEL

KAPADVANJ →

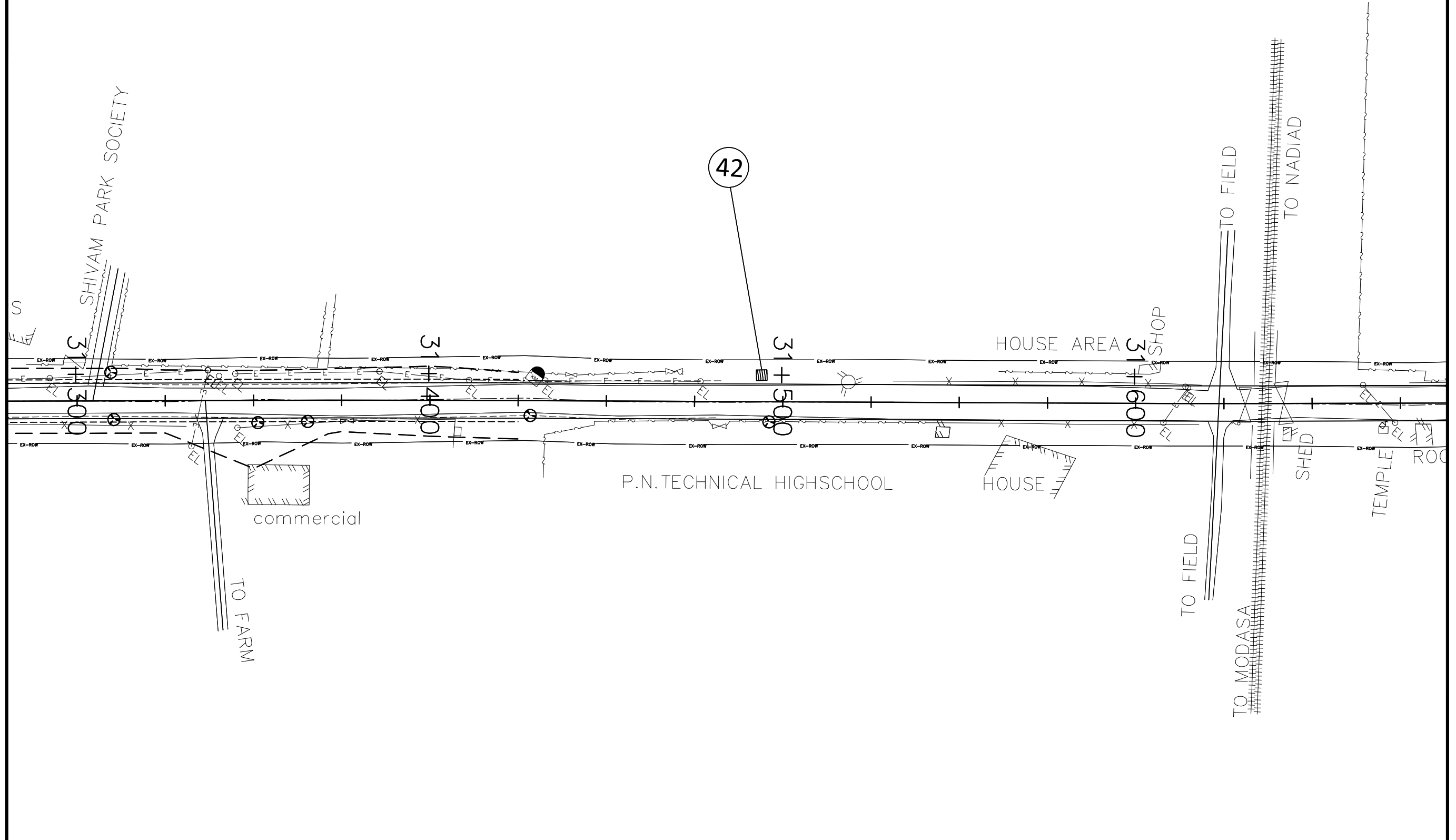


DIA: 2.0 mt

			SCALE :				GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT						
			SCALE: 1:750				CORRIDOR : LADVEL – KAPADVANJ (SH 151) IMPACTED STRUCTURES						
No.	REVISION	DATE	BY	CAD FILE:	DES-LK – R1	DATE:	MAY'2012	PROJECT:	PPWCS	DWG No:	PPWCS/LK/IS/01	REV.	0

← LADVEL

KAPADVANJ →



No.	REVISION	DATE	BY	SCALE :	GOVERNMENT OF GUJARAT ROADS AND BUILDINGS DEPARTMENT CORRIDOR : LADVEL – KAPADVANJ (SH 151) IMPACTED STRUCTURES	DATE:	PROJECT:	DWG No:	REV.
				SCALE: 1:750					
				CAD FILE:	DES-LK – R1				

---

## Appendix 5.1: Consultation Format

---

### COMMUNITY CONSULTATION – DISCUSSION GUIDE Umreth-Vasad (including Ladvel-Kapadvanj) Corridor

#### ROADS AND BUILDINGS DEPARTMENT, GOVT. OF GUJARAT PPWCS, GUJARAT STATE HIGHWAY PROJECT-II,

##### Introduction

- Government of Gujarat has taken up the second Gujarat State Highway Project (GSHP-II), covering up-gradation, maintenance and improvement of identified core road network for loan appraisal with the World Bank. Roads and Building Department (R&BD), the responsible body for managing the project, has retained M/s LEA Associates South Asia Pvt. Ltd. (LASA) as Project Preparatory Works Consultants to prepare pertinent plans on widening and upgradation of highways.
- As a pre-requisite towards loan appraisal with the World Bank, R&BD has selected ten corridors at this stage, aggregating to 394.465 km length for detailed project report. This includes widening and upgradation of Umreth-Vasad (including Ladvel-Kapadvanj) corridor.
- The project corridor Umreth-Vasad (including Ladvel-Kapadvanj) has three sections namely Umreth to Sarsa (km 0+000 to km 19+138), Vasad to Sarsa (km 0+000 to km 9+184) and Ladvel Jn to near Kapadvanj (km 19+125 to km 32+067). The total length of the proposed corridor is 41.905 km. Road widening of 19.5m width at settlements and 16m width in other places is proposed.
- Consultation intends to disseminate the information regarding the proposed development as well as to know the opinion of the people regarding resettlement issues, road safety measures and potential impacts of the project.

##### Discussion Points – General

- Awareness and Opinion about the project
- Road safety issues along the corridor [road accidents/avoidance/suggestions etc – specific cases of accidents taking place in particular locations – reasons for such accidents – increase/decrease in accidents]

##### Discussion Points for Commercial / industrial Category

- Extent of impact [in terms of loss of property – loss of livelihood – any improvement in business expected due to the project, etc.]
- Will you be able to continue your business in the same location – if relocating to another place, implications on rent, business etc - how much time required to relocate the structure or restore the affected business/livelihood
- Tenants – usual notice period from land/building owners
- Opinion regarding compensation and assistance for affected properties
- Opinion about Rehabilitation and Resettlement for fully affected structures or if livelihood affected

**COMMUNITY CONSULTATION – DISCUSSION GUIDE  
Umreth-Vasad(including Ladvel-Kapadvanj) Corridor**

**Discussion Points – for Residential Category**

- Extent of impact [in terms of loss of land – loss of structure – loss of other assets, etc.]
- Will you be able to live in the same building – if you are relocating to another location, what would be the implications
- Tenants – usual notice period from land/building owners
- Opinion regarding compensation and assistance
- Opinion about Rehabilitation and Resettlement for fully affected structures or if livelihood affected

**Discussion Points – Religious Structures / Common Property Resources**

- Extent of impact [in terms of loss of land – loss of structure – loss of other assets, etc.]
- Age of the structure – important festivals/events of pilgrim/tourist attraction - period of such celebrations – pilgrim/tourist population
- Relocation of religious properties / common property resources – Involvement of Panchayats – Any community based organizations



**Discussion Points – Agriculture Land**

- Extent of impact [in terms of loss of land – loss of agriculture crops – loss of other assets, etc., any improvement in agriculture production or development in terms of marketing expected due to the project]
- Type of crops cultivated in a year [average farm-gate price of various crops cultivated, marketing centers, area of cultivation]
- Details regarding cropping pattern [number of crops in a year, any share-cropping pattern, usual arrangement of share-cropping or contract farming]
- Dependence on Bore-wells or other irrigation facilities [arrangement for bore-well or other irrigation facilities] – Cost of Bore-well or other irrigation facilities – cost sharing pattern.



**Appendix 5.2**

**Photographs of Consultations: Umreth-Vasad including Ladvel-Kapadvanj Corridor**

<p><b>Chainage: km 00+000, Junction at Umreth, Dist: Anand.</b></p>	
<p><b>Chainage: km 15+100; Church and T-junction, Dist: Anand.</b></p>	
<p><b>Chainage: km 19+000; Sarsa Chokdi, Dist: Anand.</b></p>	