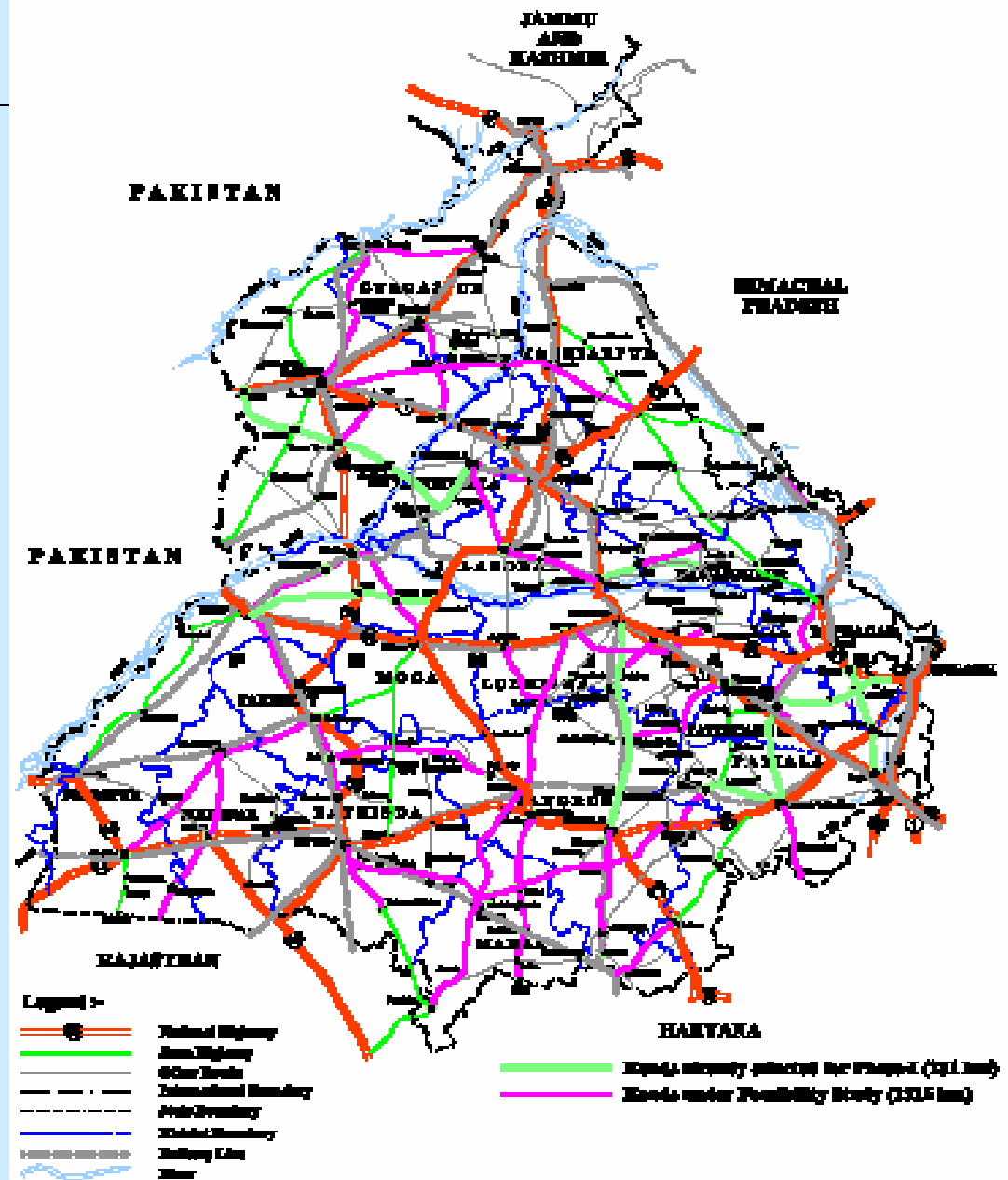

Environmental Management in PSRSP

**Khabilongtshup
Environment Officer, PRBDB**

Screening and Scoping – Selected Road Network



1. Feasibility and Screening Study

- Screening of approx. 1700 km road for a total length for identification of prioritized road.
- The criteria adopted for screening of this road is activity base at time of construction and over this 11 parameters have been identified for screening.
- Based on above mentioned criteria following road were identified:
 - 153 km is under Up- gradation
 - 204 km is under Rehabilitation
- 462.91 km of road length have been identified under Periodic maintenance.
- **Output – Environment Screening Report**
Social Screening Report

Issues Identified During Screening

- Flooding of road during monsoon
- Water logging along road
- Drainage problem in urban areas
- Outfall of drain at agriculture land
- Cutting of large number of trees
- Enhancement of public properties
- Demolition of religious and private structures along roads
- Land acquisition
- Compensation for loose of assets
- Traffic safety and congestion
- Protection of road side water bodies
- Requirement of bus stand
- Truck terminals in industrial and semi-urban area (Kurali, Bellerkhanpur)

Public Consultation

- ✓ A total of 75 number of public consultation have taken placed during planning and preparation of project.
- ✓ Documentation of Public consultation; e.g. Chabal Market area organized in May 2006

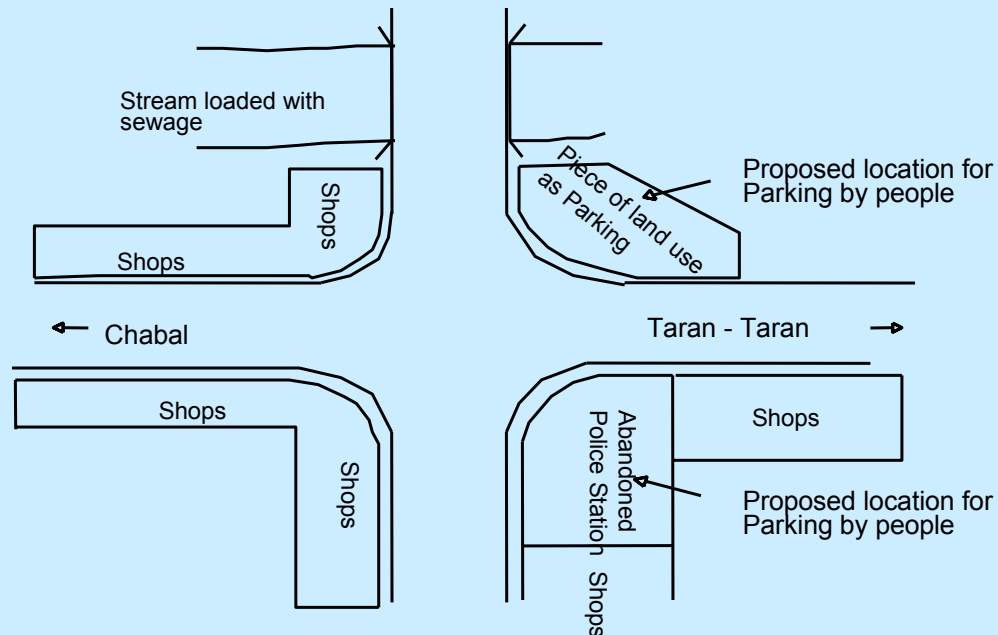
People Concerns

- Level difference – road and shop
- Parking problem
- After maintenance, leaving of maintenance site without repairing
- Ground water pollution (100 ft) due to collection of sewage in one stream
- Traffic safety at junction and market area
- Drainage problem during monsoon

Findings Included in EA/SA/RAP reports

Suggestions Received at Chhabal

- Tree plantation involving market association
- Provision of bus shelter
- Effective drainage system
- Reduce in traffic safety due to proposed project
- Cleaning of stream to minimize ground water pollution
- Conversion of encroached police station into parking area



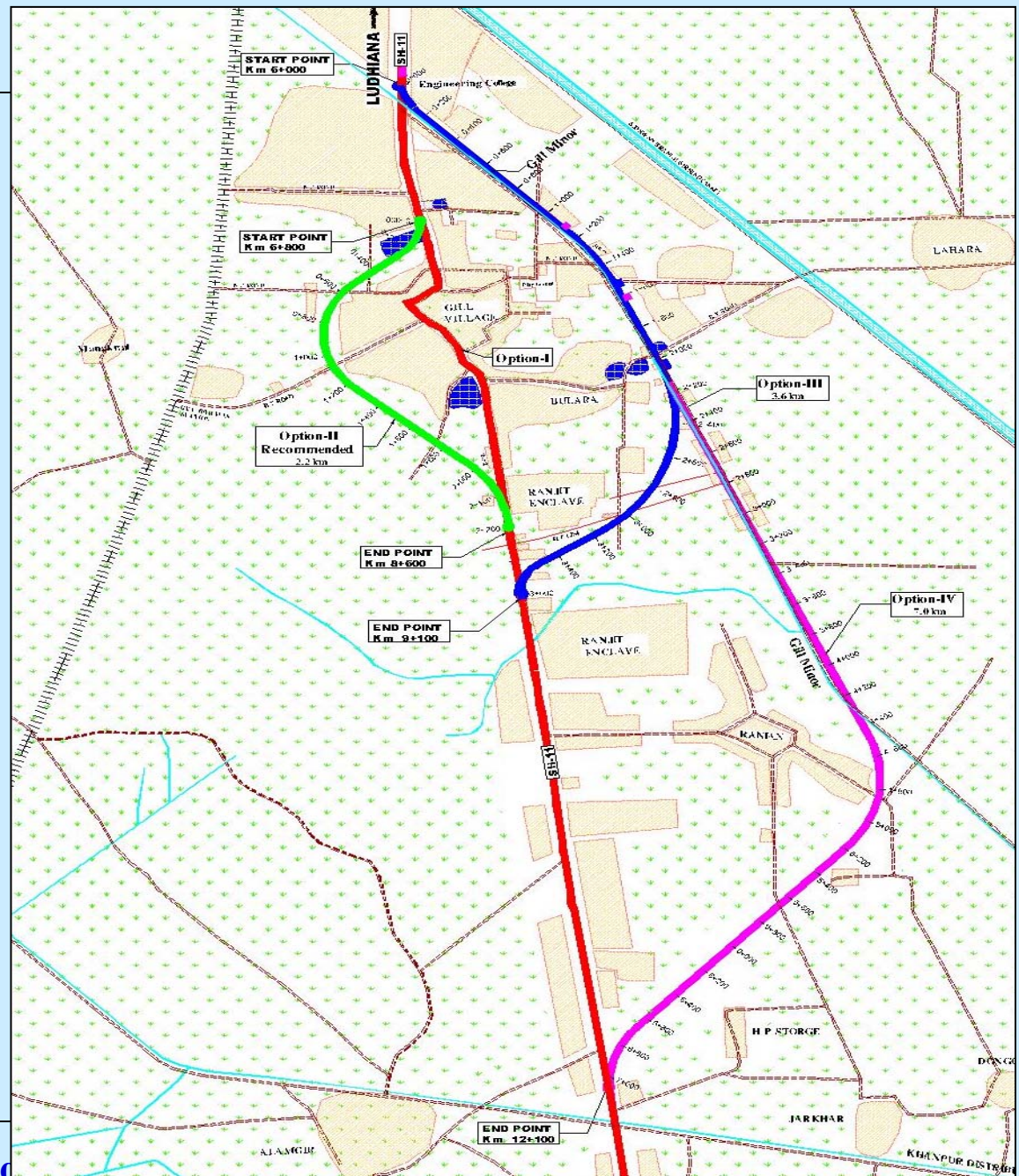
Up-gradation

Based on the output of Screening report, a detail **Environmental Impact Assessment** have been carried out for identified road.

Road Under Upgradation		
Sl .no	Road Name	Length (km)
1	Kharar-Landran-Banur-Tepla	39.53 Km
2	Ludhiana-Malerkotla-Sangrur	71.92
3	Attari-Chabbal – Taran Tarn Rd. (indg. Jtn at Tarntaran)	41.59
	Total	113.51

Gill Bypass

Engineering,
Environment
and Social
Considerations analysed
for selecting
the best
option.



Need for Detail EIA

- Construction activity is intense
- Land Acquisition is relatively more
- Large number of tree cutting
- Presence of Green Tunnels and Giant Trees
- Corridor specific problem related to Flooding, Drainage, Road Safety etc.

Output: Corridor specific EMPs have been prepared for management and mitigation of the negative impacts; Enhancements also included.

Rehabilitation

Based on the output of Screening report, in line with activities involved at time of construction, a limited Environmental Assessment have been carried out for identified road.

Road Under Rehabilitation		
Sl .no	Road Name	Length (km)
1	Ferozpur-Zira Road	34.46
2	Chandigarh-Landran-Chunni-Sirhind	37.3
3	Phillaur-Aur-Rahon-Nagar	33.51
4	Kapurthala-Tarn Taran	46.2
5	Zira Dharamkot Road	24.7
6	Sirhind-Patiala	28.3
	Total	204.47

Output: a. Limited EA and Generic EMP
b. Bridge Specific EMP

Periodic Maintenance Road

Since periodic maintenance work has limited construction activity, so a **Generic EMP** have been provided for monitoring during construction of identified roads.

Road Under Periodic Maintenance		
Sl.no	Road	Length (km)
1	Khanna Samrala Nawanshahr Garhshankar	61.38
2	Kurali Siswan	21.98
3	Situgana Dabwali	26
4	Kapurthala - Sultanpur- Dalla	30.35
5	Faridkot - Ferozepur	30.27
6	Sri Hargobindpur - Batala- Dera	55.74
9	Sunam Badbar & Pakhokey Tap	31.03
10	BaghaPurana Bhagta	38.807
11	Ropar Nawanshahr Phagwara	87.12
12	Ajnala Ramdass & Chehrta DandBir	39.77
13	Gurdaspur Sri Hargobindpur	40.47
	Total	462.917

Bid documents

All EMP's prepared have been included in the Bid Documents in line with the Periodic Maintenance work.