



UNESCAP ASIAN HIGHWAY INVESTMENT FORUM

## Pre-Feasibility Studies of Selected Asian Highway Sections

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**Woo-Hyun KWON**  
UNESCAP Consultant

*PPP Advisor to DPWH, Philippines  
Sr. Manager, KEC, Korea*

**ex** Korea Expressway Corporation

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## 1. Description of the study

- Outlook of Asian Highway (AH) Network
- Limitation of the study
- Methodology (Technical & Economic Analysis)

## 1. Description of the Study



- Outlook of Asian Highway Network (32 Countries, 141,000km)



## 1. Description of the Study



### ■ UNESCAP Efforts on identifying investment needs

- ✓ 2006: Priority investment needs for Asian Highway (AH)
- ✓ 2007: Pre-Feasibility study of the selected AH routes
- ✓ Nov 2007: Investment Forum
- ✓ Nov 2010: Promotion of investment in the selected AH routes  
(Trust Fund by Korea Expressway Corp.)
- ✓ 2013: Pre-FS of the selected AH in 4 countries
- ✓ Oct 2013: Investment Forum

## 1. Description of the Study



### ■ Limitation of the study (Recommendations for a formal FS)

#### ■ Routes selection by recipient countries

in light of their national priorities and strategic contexts  
(Upfront rationale review may be of help)

#### ■ Limited resources in budget, time and inputs

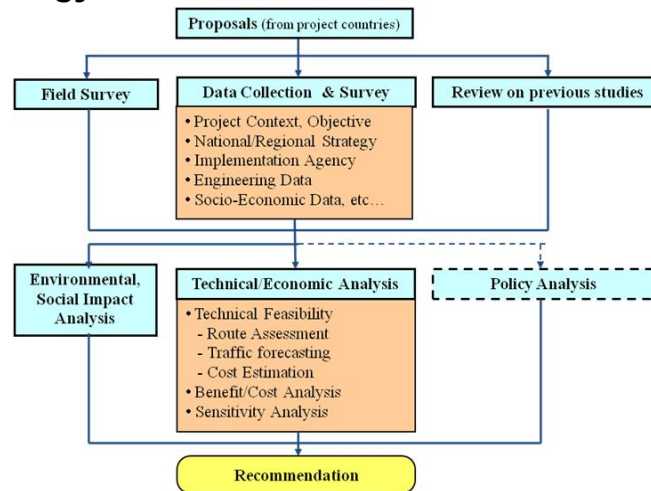
- ✓ Brief field 'trips' (1~3 day), 'secondary' data usage
- ✓ Safeguarding review (social & environmental)
- ✓ Benefits of improved cross-border connectivity including lifting obstacles/barriers shall be further explored

➤ Initial evaluation of candidate routes, mainly with low demand, to facilitate the interventions from donors/investors

## 1. Description of the Study



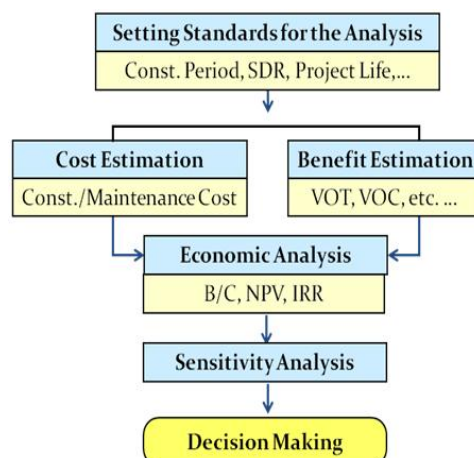
### ■ Methodology



## 1. Description of the Study



### ■ Economic Analysis



## 1. Description of the Study



### ▪ Basic Assumptions (Economic Analysis)

- ✓ Construction: 2 years (Bangladesh, Kyrgyzstan, 2013-14)  
3 years (Mongolia, Myanmar, 2013-15)
- ✓ Analysis period : 2015(16) ~ 2044(45) year  
\* 30 years after opening
- ✓ Discount rate : 12.0% (proposed value of ADB)
- ✓ Basic Price: Market price in 2011  
(Economic price converted from market price)

### ▪ Evaluation Criteria

- ✓ Internal Rate of Return (IRR) > Social Discount Rate
- ✓ Benefit - Cost Ratio (B/C) > 1
- ✓ Net Present Value (NPV) > 0

*Investment Forum*

## Pre-Feasibility Studies of Selected Asian Highway Sections



## 2. Bangladesh: Jessore-Banpara (AH41)

- Project Summary
- Strategic Context
- Socio-economic characteristics
- Technical Feasibility
- Traffic Forecast
- Economic Analysis
- Conclusion and Recommendation

## 2. Bangladesh: Jessore-Banpara (AH41)



### ■ Project summary

- **Upgrading Jessore-Banpara**  
(148km, 2 lane, AH class 2)

- ✓ Jessore-Jhenaidah (103KM)
- ✓ Jhenaidah-Jessore (45km)  
(Rehabilitation by ADB)

- **Capacity Building**  
(Apr 26, 2013)

- ✓ **Preparation of proposal**  
(Traffic projection,  
Economic analysis,  
Safeguarding, PPP)

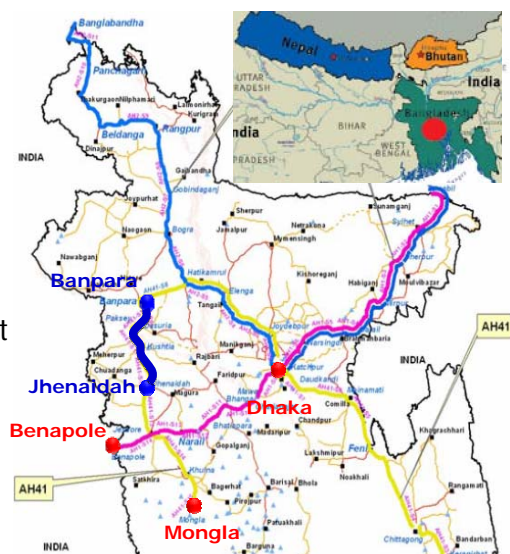


## 2. Bangladesh: Jessore-Banpara (AH41)



### ■ Strategic context

- A part of 6<sup>th</sup> five-year Plan  
(2010/2011 to 2014/2015)
- Principal N to S corridor  
in the western region
- ✓ connecting Mongla sea port  
and Benapole dry port
- ✓ to and from India  
and land-locked  
**Nepal and Bhutan**





## 2. Bangladesh: Jessore-Banpara (AH41)



### ■ Socio-economic characteristics (2011)

- Population: 150.5 million (Annual population growth: **1.32%**)
- GDP per capita: US \$735 (GDP Growth Rate: **6.7%**)
- No. of registered vehicles: **0.5 million** (Growth rate **6.3%**)
- ✓ including Rickshaw and MC: 1.5 million (Growth rate 9.2%)
- Road system inventory (RHD)

Road Type	Total Length(km)	Road Administrator
National Highway	3,492	RHD
Regional Highway	4,268	RHD
Zilla Road	13,280	RHD
Sub-Total	21,040	

## 2. Bangladesh: Jessore-Banpara (AH41)



### ■ Technical Feasibility

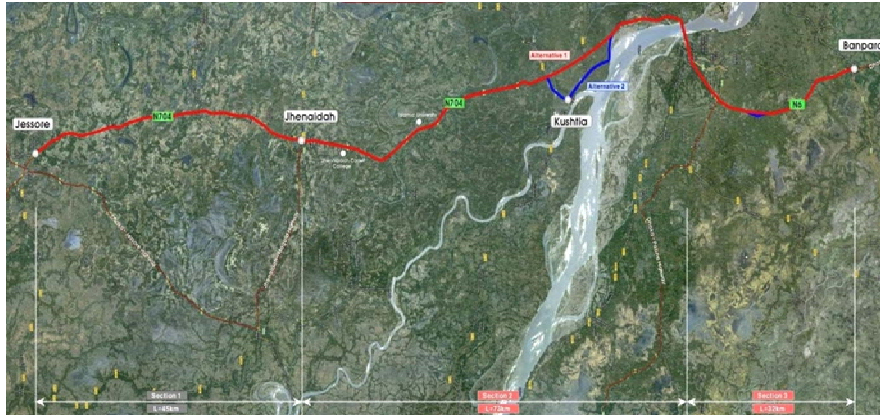
- **Field trip:** Aug 26-27, 2013 (Dhaka-Banpara-Jessore)
- **Findings and Recommendations**
  - ✓ **Alignment:** AH Class2, Most sections run through flat terrain
  - **City bypass (Kushita) is recommended**
  - ✓ **Pavement:** 2 lane DBST and AC with overall fair condition
  - **Partial repair based on the current alignment**
  - ✓ **Bridges:** 12 bridges with relatively good conditions
  - ✓ **Social & environmental impact:** **Kushita bypass only**
  - ✓ **Road safety:**
    - Integration of 2 close roundabouts (N6 and N705 IC)
    - Relocation of Bus stops in the IC
    - Separation of NMT by frontage road and safety furniture

## 2. Bangladesh: Jessore-Banpara (AH41)



### ■ Division of sections

- ✓ Section 1 (Jessore-Jhenaidah, 45km): Rehabilitation by ADB
- ✓ Section 2 (Jhenaidah-Paksey, 73km): Kulna Div.
- ✓ Section 3 (Paksey- Banpara, 32km): Rajshahi Div.



## 2. Bangladesh: Jessore-Banpara (AH41)



### ■ Section 2 (Jhenaidah-Paksey, 73km)



预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_6570](https://www.yunbaogao.cn/report/index/report?reportId=5_6570)

