Progress Status on Development of Asian Highways and Other Networks

7~9 October, 2013

Dinker Sharma
Nepal
Asian Highway 2
Total Length = 1027 km
Location of Chatara Bridge and East West Highway - Chatara Bridge East West Highway Alignment
### Project Title: East West Highway – Chatara – East West Highway (Alternate AH 2 connection)

#### Short Description:
Koshi Bridge at Chatara is located on the upstream of Koshi River Barrage. The alignment starting from Nadaya and passing through Chatara Bridge (CB) via EWH-CB – EWH to connect AH 2 again at Fatepur is also being taken up under ADB support. This route after construction will serve as an alternate to AH 2 in case of any damage to AH 2.

#### Proposed Financing Modality:

**Bridge Project:**
Resources Allocation: ADB Grant No: 0150-NEP – US$ 7.0 million and GoN contribution of US$ 8 million. Project Name: Emergency Flood Damage Rehabilitation Project (EFDRP)

**Highway Project:**
Resources Allocation: ADB Loan No: 3012-NEP – US$ 24.9 m (77.4%), GoN contribution 22.6%. “SASEC Road Connectivity Project”

#### Project Feasibility Indicators:

**Bridge Project:** Under Construction

**Highway Project:**
EIRR = NPV (NRs in m @ 12% discount) = 2.5

#### Project Technical Specification:

**Bridge Project:**
Bridge length is 270 m, 10.5 meters width, pile foundation, 4 spans with 3 piers, steel truss bridge. Road is AH Class III, contains 19 Bridges.

**Highway Project:**

#### 8. Expected Timeframe for Implementation:

**Bridge Project:** 30 months, expected to be completed in April 2014.

**Highway Project:** 36 months

#### 9. Contracting Agency:

**Bridge Project:** CTCE/ Kalika Joint Venture (Contractor)

**Highway Project:**
Tendering works in near future
AH 2 link to be connected with India

- Brahmadev Mandi
- Mahendra Nagar
- Gadda Chawki
- Kakarbhitta

AH 2

Legend:
- International Boundary
- Regional Boundary
- State Boundary
- National Boundary
- Existing
- Proposed

Scale: 1:2,500,000

Asian Highway Routes in Nepal

Map showing the routes and locations mentioned.
<table>
<thead>
<tr>
<th><strong>Project Title:</strong> Mahendra Nagar Brahmadev Mandi Connection on AH 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Short Description:</strong></td>
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<tr>
<td>This link is located on the Far West of Nepal at the border with India. This link is yet to be realized. In absence of this the Asian Highway AH 2 is not complete. There is no link with India through the Asian Highway and further west.</td>
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<td><strong>Proposed Financing Modality:</strong></td>
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<td>Government of India has committed to support this project under “Tanapur Treaty”. Estimated Project cost: NRs 357,790,000/- (US$ 4,472,375) as of 2008. No revision has been made since then.</td>
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<tr>
<td><strong>Project Feasibility Indicators:</strong></td>
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<tr>
<td>Not available</td>
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<tr>
<td><strong>Expected Timeframe for Implementation:</strong></td>
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<tr>
<td>Not Available</td>
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<td><strong>Comments:</strong></td>
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<tr>
<td>In fact, a missing link on the AH 2 exists. The detailed design works is complete and land compensation has been distributed. No progress has been made for a long time (almost a decade).</td>
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</tbody>
</table>
Rehabilitation of Belbari Chauharwa Road Section 40 km – financed by ADB
**Project Title:** Rehabilitation of Belbari Chauharwa Section of AH 2. (40 km stretch)

**Short Description:**
This portion lies on the Eastern side of Nepal. The section of rehabilitation starts from the western side of Koshi River Barrage. This rehabilitation of 40 km portion is a left out section of the original 140 km of Belbari Chauharwa Section. The works will strengthen the life of pavement and is expected to reduce vehicle operation costs.

**Proposed Financing Modality:**
ADB Grant under Sub Regional Transportation Enhancement Project – Grant No: 0225-NEP (SF): ADB contribution – 65.7%, GoN contribution – 34.3%

**Project Feasibility Indicators:**
Construction works are in progress. Rehabilitation to the same standard as the existing AH 2. Carriage way width = 7 m of Asphalt Concrete and shoulder width 1.75 m on either side in Double Bituminous Surface Treatment (DBST).

**Expected Timeframe for Implementation:**
The Project works is expected to be completed by October 2013.

**Contracting Agency:**
Asian Highway 42
Total Length = 297 km
AH 42
Kakarbhitta
Gadda Chawki
Brahmadev Mandi
Narayanghat Mugling
Road Section Improvement – 36 km
Project Title: Narayanghat Mugling Section of Road

Short Description:
This portion is one of the busiest sections of road along the AH 42 highway. Traffic coming across the east and west of the country merge at this section. A need has been felt to widen this portion because of high traffic and congestions. The bridges along this section are of intermittent stand and need improvement or replacement. The World Bank has come up in supporting the Highway (excluding the Bridges) under “Nepal India Regional Trade and Transport Project”.

Proposed Financing Modality:
Resources available: US$ 101 million from the World Bank (WB) as Loan. Project No: P144335. The GoN is to invest additional 10% for compensation and other expenses.

Project Feasibility Indicators: EIRR: 19.2%, NPV: NRs 1232 million at discount rate of 12%.

Project Technical Specification: Road Length: 36 km, Pavement Width: 7 m (2 lanes) Shoulder: 2 m each on either side in plain area and 1 m each on either side in hill area. Asphalt Concrete proposed.

Expected Timeframe for Implementation: Three years

Comments: There are 18 bridges along this route which are of intermittent width. Along with the road these bridges also need to be upgraded. Upgrading of the bridges can be taken up as a future investment prospect. Bridge Projects could also be proposed on PPP modality.
AH 42
Kakarbhitta
Gadda Chawki
Brahmadev Mandi
Barabise – Kodari – 12 km
Section Improvement
Project Title: Larcha – Tatopani (Kodari) Section Improvement – 7 km on AH 42

Short Description:
This 7 km section of the road starts on the north from Tatopani (China border) to Larcha. The road is being constructed with the support of Government of China. It also intends to improve the Customs facilities (dry port) at Larcha. This Project is basically intended to facilitate the customs proceeding at the border.

Proposed Financing Modality:
The resources and funding are being allocated by the Government of China.

Project Feasibility Indicators: Not Available
Project Technical Specification: The road is being widened to 12 m in width.

Expected Timeframe for Implementation: Not Available

Comments:
All works are carried out by the Government of China by the Chinese team.
Other Development Activities
Total Length = 1765 km

AH 2
Total Length - 1027
Commercial Corridors

Corridors yet to be taken up:
Suryabinayak-Dhulikhel
Birgunj-Pathalaiya

Legend
- District Headquarter
- International Trade Route Improvement
- Strategic Road Network
- Major River

Nepalgunj Kohalpur 22 km
Belahiya- Butwal 24 km
Birgunj- Pathalaiya 28 km
Rani-Biratnagar-Itahari-Dharan 50 km

International Trade Route Improvements
Six Lane

Surya Binayak-Dhulikhel 16 km
Bridge Improvement and Maintenance Project

Bridges under the Strategic Road Networks = 102 nos under construction
Bridges under the Local Road Networks = 273 nos under construction
New Bridges under survey and design = 400 nos
Thank You

for

Your Attention