

Operation, Maintenance and Tolling
in the State of Bihar
under
Road Construction Department
(Government of Bihar)

13th December 2011

- **The State has**

- 3702 Kms of National Highways
- 4757 Kms of State Highways
- 8198 Kms of Major District Roads



NATIONAL HIGHWAYS AT A GLANCE

Schemes	Length (Km)	Status
NHDP -I	205.00	
NHDP -II	488.00	
NHDP -III	1013.00	
NHDP -IV	490.00	
4-Laning under PPP	225.00	
Special Project (Budget)	174.00	
Special Project (WB funded) Phase-I	533.00	
Special Project (WB funded) Phase-II	<u>212.00</u>	
SUB TOTAL	3340.00	
<u>BALANCE :</u>		
NH-99 (Dobhi - Chatra)	11.50	Work in progres under LWE Phase-I
NH -2C (Dehri-on-Sone-Akbarpur-Yadunathpur)	105.00	Taken up under LWE Phase-II
NH-103 (Hajipur - Jandaha - Musrigharari)	58.00	Taken up under Annual Plan
NH-101 (Chapra - Baniyapur - Mohammadpur)	65.00	Taken up under Annual Plan
NH-82 (Gaya - Hisua - Biharsharif)	95.00	Taken up under JICA
NH-19 (Pahari - MG Setu - Hajipur)	14.00	To be handed over to NHAI
NH-19 (Chapra - Manjhi)	<u>14.00</u>	Widening work in progress
SUB TOTAL	362.50	
GRAND TOTAL	3702.50	

STATE HIGHWAYS AT A GLANCE

- **2035 Kms SH- 2 lane by IRCON/CPWD under RSVY**
- **2722 Kms** declared New State Highways being developed under

Bihar State Road Development Corporation Limited.

- Project for 2-laning of **820 Kms (9 Pkgs.)** taken up with ADB assistance under BSHP-I. 5 Pkgs completed, 4 pkgs in this FY
- Project for 2-laning of **379 Kms** (4 Pkgs) taken under BSHP-II, work started.
- Project for 2-laning of **254 kms** (4Pkgs) taken under AFBSHP-II, Under Bidding Progress.
- Balance Length **1269 Kms** under strengthening on Modified annuity (PPP) or EPC (construction & maintenance).

Present Status

- SH completed under RSVY - 2035 Kms (requires maintenance)
- SH under BSHP-I – 558 Kms is completed (rest 262 Kms are under progress)
- SH under BSHP-II – 379 Kms is under progress/work started
- Under AFBSHP-II – 254 Kms are under bidding process.
- SH for strengthening – 1269 Kms (EPC / PPP) Initial screening for Traffic Study being conducted.
- MDR for routine maintenance - 8198 Kms
- 2500 Nos. of Bridges completed under Plan/GOI Scheme/ MMSNY- requires maintenance
- Out of Rs. 1069 Crores per annum for routine maintenance, Budget provisions for Maintenance inadequate

Road & Bridge Maintenance Policy-2010:

OBJECTIVE:

- Safe access for road users.
- Efficient allocation of available funds and resources for the maintenance and repair of roads.
- Programming of repair work in consonance with the reconstruction / rehabilitation / improvement programme.
- Development of a system for recording and reporting on the condition of roads and bridges.
- Creation of a funding mechanism to finance maintenance of road assets on a permanent and sustainable basis.
- Participation of various stakeholders in maintaining existing roads.

Approach & Implementation:

- Establishment of a Road and Bridge Management System which shall include a data collection system, database and an automated analytical process for planning and programming of road works.
- Data for the Road database shall be collected at the Division level and the same shall be compiled at the Head Quarter level by Road & Bridge Maintenance (RMS) unit for the all State Highways and MDRs.
- Updating shall be done on yearly basis.

Development of Different Module for the Maintenance system.

❖ **Construction contract along with maintenance**

- Approval of Annual Maintenance Programme in the beginning of the Financial year for Routine Maintenance / PR works and execution of works accordingly. The PR cycle shall be as per IRC norms.
- Urgent works of original nature shall be approved and executed under SR.
- Repair of roads damaged by heavy rains/flood, water logging etc. shall be approved and executed under FDR/Emergent repair

❖ **Output performance based contract**

- Service level defined on the basis of roughness and IRC norms
- Provision for improving the road condition in first year of contract as per defined performance level
- Monitoring during contract period, 3rd party evaluation, penalty/ prize for due diligence of the contract

Sources of Fund for Maintenance

- EPC
 - Input based contract
 - Performance based long term contract
 - Hybrid maintenance (80:20, 40:60)
- Funding
 - Budget provision inadequate
 - Strengthening / 2-laning is as per WB/ADB/NABARD/GoI funding

Proposals on anvil

- A regulatory framework is under decision for O&M Program at State level.
- OMT documents issued by Planning Commission is to be adopted.
- Adaptation of modified EPC contract (construction plus maintenance) as per Planning commission
- Leveraged Annuity Fund through financial intermediation loan from ADB

Benefits

- Reduction in Vehicle Operating Cost(VOC).
- Reduction of Accidents
- Pollution control/Green Environment
- Reducing potential High Risk damages due to inadequate routine maintenance.
- Proper connectivity and maximum use of available road network

Maintenance / Corridor Improvement

- OMT (Operate, Maintain and Transfer) for 4 years / 9 years
- Contract may be decided on fixed tenure and Toll rate
- Contract may also be decided on swiss challenge procedure in case of Innovative proposals
- Same Fee structure for construction as well as maintenance of road / bridges under notification

CHALLENGES

- Working season during each year
- Availability of construction material
- Ribbon development of habitation due to less road density/sq km.
- Naxalism in border district of state

PPP PROJECTS

STATUS

Sr. No.	Name of the Project	Cost (Cr)	Status
1	Greenfield Bridge across Ganga Connecting Bakhtiyarpur to Tajpur, Length of the Bridge 5.55 km and approach road is 45.393 km.	1502.74 38.93% VGF (20% GoI 18.93% GoB)	Concession Agreement signed on 8 th Oct-10. Process of financial closure is completed. LA is in progress. Section-9 EOI for IE has been issued.
2	Arra- Mohania Road (NH-30, Length-117 Km)	917.00 32.50% VGF (20% GoI 12.50% GoB)	Concession Agreement signed. EOI for IE- Bid Under Evaluation
3	Bihta – Aurangabad (SH-2, NH-98 Length-117 Km)	362.00	Under In-principle approval, due to latest traffic study and revised cost.

PPP Projects contd.....

Sr. No.	Name of the Project	Cost (Cr)	Status
4	Ganga Express Driveway, Length- 21 km	2234.46	Empowered institution, DEA, Gol, Ministry of Finance has given in-principle approval. RFQ to be floated.
5	Bakhtiyarpur - Biharsharif -Rajauli section of NH-31- Length- 107 Km	847.12	RFQ has been received, evaluation under process. EOI for IE under evaluation.









प्रवेश निषेध
कर्म प्रवृत्ति पर है /
असुविधा के लिए खेद





We have just begun.....