Mongolian road network /total the length of a road 97790 km/

Motor road: 49250 km
Rail way: 1908 km
Air way: 46500 km
Water way: 132 km

Motor road: 47%
Rail way: 50%
Air way: 2%
Water way: 1%
HISTORY OF ROAD SECTOR

Year 1929
ROAD DIVISION WAS FOUNDED UNDER “MONGOL TRANS”

Year 1933
MINISTRY OF INDUSTRY, TRADE, ROAD, TRANSPORTATION, COMMUNICATION

Year 1944
MINISTRY OF DOMESTIC ACT, FRONT OFFICE OF PAVED AND EARTH ROAD

Year 1957
MINISTRY OF TRANSPORTATION ADMINISTRATIVE DEPARTMENT OF ROAD

Year 1981
FRONT OFFICE OF ROAD UNDER BOARD OF MINISTERS

Year 1989
ROAD DEPARTMENT OF MINISTRY OF TRANSPORTATION

Year 1991
FRON OFFICE OF ROAD AND TRANSPORTATION

Year 1994
DEPARTMENT OF ROAD OF MINISTRY OF INFRASTRUCTURE

Year 1996
EXECUTING AGENCY OF GOVERNMENT, DEPARTMENT OF ROAD

Year 2004
MINISTRY OF ROADS, TRANSPORTATION AND TOURISM, ROAD SUPERVISION AND RESEARCH CENTRE

Year 2008
EXECUTING AGENCY OF GOVERNMENT, DEPARTMENT OF ROAD

Year 2012
MINISTRY OF ROADS AND TRANSPORTATION, ROAD POLICY IMPLEMENTATION AND COORDINATION DEPARTMENT
STRUCTURE AND MANPOWER OF ROAD SECTOR

MINISTRY OF ROADS AND TRANSPORTATION

ROAD SECTOR

Non-governmental organizations 7

Maintenance and Mothering companies 23

Road construction companies 405

Engineering drawing and Consulting companies 23
ROAD CLASSIFICATION AND CURRENT DEVELOPMENT OF MONGOLIA

Road classification under Sub-clause 11 of “Law of Road” (1998.01.02):
1. International road
2. State roads
3. Local roads
4. Domestic roads of Organization and Factory
   + Specific roads

STATE ROAD
12 722 km

INTERNATIONAL ROAD
4 333 km

LOCAL ROAD
36 528 km

NATIONAL ROAD NETWORK
49 250 km
CURRENT DEVELOPMENT OF STATE ROAD NETWORK

TOTAL
State roads 12 722 km

- Paved roads, 2967 km; 24%
- Under construction, 3494 km, 27%
- Earth roads, 6261 km, 49%
- Concrete bridges, 663, 71%
- Wooden bridges, 384, 29%
STRATEGIC PLAN OF DEVELOPING ROAD NETWORK

NATIONAL DEVELOPMENT GOALS BASED ON MILLENIUM DEVELOPMENT PLAN

Government activity of Mongolia

International roads
- Road network developing 6 sides program
  - Development plan of developing Mongolian roads until 2020
  - Plans of Government from 2012 to 2016

Urban roads
- Master plan for Ulaanbaatar
  - Master plan of developing road network of Ulaanbaatar
  - Mayor’s action plan in 2012-2016

Local roads
- There is no well arranged plan of developing local roads
  - Need to develop well arranged plan

Roads for transporting products of mining
- There is no plan for minerals and mining
  - Need to develop well arranged plan

INVESTMENT PLAN FOR EACH YEAR

www.mrt.gov.mn
NEW DEVELOPMENT MID-TERM TARGET PLAN

Approved by Parliament decision number 36 of 2010.06.24

100 000 family accommodation

Project of developing 96 soum

Creation project of Road sector

Project of reducing air pollution in Ulaanbaatar

- Construction work 5572 km paved State road
- Construction work of 990 km highway Altanbulag-Ulaanbaatar-Zamiin-Uud
- Construction work of 212 km paved road, and 7 bridges in Ulaanbaatar
- Upgrading work of 350 km paved road in Ulaanbaatar
Implementation of works to be invested by Development bank of Mongolia approved by decision of Government number 336 of 2011, 47, 106 of 2012.

- Developing road engineering drawings
  - In 2013 688.41 km road engineering drawings planned to be developed from 4200 km road engineering drawings.

- Road construction work
  - In 2013 1266 km /13 projects / roads planned to be built with the net budget of 645.5 billion tugrik.

- Road consultancy and supervision work
  - In 2013-2016 all the road construction work will be supervised by Consultant companies.
In 2013 50%, in 2016 80% of total road construction works will be supervised under arbitral companies.
405 Certified road construction companies

Of which

81 road construction companies work actively and construct 90% of the total road construction works

In 2012, 8342 people are in road sector of which 643 people are professional engineers

Formation of Technologist preparation and long and short time training of Road sector

Schooling of Bachelor, Master and Doctor
• Abroad
• MUST SCEA
• TTC

Career enhancement training
• Engineer
• Economist
• Quantity surveyor

Preparation of professed workers
• Road worker
• Machinist
• Laboratory worker

Other training
Supervision engineer’s training
• Domestic and foreign training and seminar
• Under foreign funded project

ROAD SECTOR HUMAN RESOURCE AND MAND POWER
ROAD CONSTRUCTION WORKS OF LAST 4 YEARS

**Constructed roads**

- **Paved road /km/**
- **Gravel road /km/**
- **Concrete bridge /l/m/**

**Investment**

- **Investment for road construction**
- **Investment for road maintenance**
- **Total investment**

**Completion year**

- 2008: 46 km
- 2009: 114 km
- 2010: 498 km
- 2011: 647 km

**Investment year**

- 2008: 83.6 billion tugrik
- 2009: 83.4 billion tugrik
- 2010: 131.9 billion tugrik
- 2011: 178.8 billion tugrik
- 2012: 330.1 billion tugrik

**Length of road (km)**

- 2008: 46
- 2009: 40
- 2010: 76
- 2011: 10

**Investment (billion tugrik)**

- 2008: 74.6
- 2009: 9.0
- 2010: 12.7
- 2011: 15.5
- 2012: 314.6

**Total investment**

- 2008: 151 billion tugrik
- 2009: 120 billion tugrik
- 2010: 420 billion tugrik
- 2011: 1110.7 billion tugrik
- 2012: 330.1 billion tugrik

www.mrt.gov.mn
INVESTMENT SOURCES FOR ROAD SECTOR

Road construction work

Road maintenance work

- State budget
- Development bank of Mongolia
- Foreign fund loan and aid (ADB, WB, KfW, KF, JFPR)
- Private sector (Mining road, Concession road)
ASPHALT CONCRETE
CEMENT STRENGTHEN BASE

TYPICAL CROSS-SECTION SHOWING PAVEMENT STRUCTURE AND RELATED ROAD FEATURES

All other stretches except shown at B

Detail-A

X-section where GSB exists

Detail-B
ASPHALT CONCRETE
CRUSHED AGGREGATE BASE
IN 2013 6 PROVINCES WILL BE JOINED TO ULAANBAATAR BY PAVED ROAD

<table>
<thead>
<tr>
<th>Nr</th>
<th>Investment source</th>
<th>No. of project</th>
<th>Length /km</th>
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<td>1</td>
<td>State budget</td>
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<td>2</td>
<td>Development bank investment</td>
<td>9</td>
<td>909.0</td>
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<tr>
<td></td>
<td>Construction work</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Supervision work</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>Foreign fund loan and aid</td>
<td>4</td>
<td>388.4</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
<td><strong>1,347.4</strong></td>
</tr>
</tbody>
</table>
OTHER ROAD CONSTRUCTION WORKS TO BE COMPLETED IN 2013

- Temeen Khuzuu-Baga Ulaan davaa: 110.8 km
- Ulaangom-Khyargas: 100 km
- Ulaangom-Naranbulag: 90 km
- Uliastai-Donoin khundii: 29.5 km
- Mankhan-Khovd: 85.3 km
- Ulgi-Tsagaannuur: 40 km
- Ulgii-Khashaat: 60 km
- Myangad-Sarkharhan: 20 km
- Mankhan-Darvi: 100 km

State budget: 156.5 km
Development bank of Mongolia: 357 km
Foreign fund loan and aid: 256.1 km
ROAD CONSTRUCTION WORKS TO BE COMPLETED IN 2014

- Tosontsengel-Uliastai 114 km
- Tsahir-Tosontsengel 127 km
- Khankh-Mond 23 km
- Khalzanburgedei-Solongo davaa 100 km
- Munkhhaan-Baruun-Urt 132.6 km
- Munkhhaan-Baruun-Urt 45.3 km
- Altai-Darvi 85 km
- Altai-Darvi 98 km
- Altai-Darvi 80 km
- Baidragiin guur-Altai 127 km
- Bayankhongor-Baidragiin guur 129.5 km
- Bulgan-Uyench-Khovd 60 km

- State budget 83 km
- Development bank of Mongolia 1038.4 km
- Foreign fund loan and aid 47.9 km
ROAD CONSTRUCTION WORKS TO BE COMPLETED IN 2015

- Tsagaannuur-Ulaanbaishint 25 km
- Khovd-Ulaangom 163 km
- Songino-Khyargas 172 km
- Tosontsengel-Numrug 167 km
- Uliastai-Battsengel-Ikh tamir 104 km
- Dashinchilen-Bulgan 121 km
- Uliastai-Altai 139 km
- Baga ulaan davaa-Mankhan 103.3 km
- Uliastai-Durvuljin-Sarkhairkhan 273.2 km

Other sources: 273.2 km
Development bank of Mongolia: 891 km
Foreign fund loan and aid: 267.2 km
In 2013-2016, total **5469.35** km paved road, **3683.7** l/m concrete bridge works will be completed.
In 4 regions there are 19 state owned shareholder companies and 4 private sector companies are doing the maintenance and mothering works for total 12 722 km state roads.
There are 16 toll collection points along the International and State road of Mongolia.
URGENT WORKSHOPS

There are 42 workshops to prevent the roads driven over hills to be blocked by snow or other natural hazards while winter season comes.

In total there are 164 road workers, 41 master, 135 machinist, 93 machines and mechanism, and 42 service cars under work.
MEASURES TO BE TAKEN FURTHER

TO ENSURE ROAD NETWORK READINESS

PERFECTIBILITY OF ROAD MAINTENANCE AND MOTHERING WORKS
- Improve road maintenance and mothering work plan
- Need of legalizing investment sources

PERFECTIBILITY OF LAW
- Mining and private sector

CONDUCT THE NEW TECHNOLOGY
- Develop the substruction of Research and investigation
- Conduct the cheap design and technology
- Enrich the frame of standard and norm

OUTCOME ENHANCEMENT OF INVESTMENT
- Improve contract responsibility
- Bring it to a new phase of planning

INCREASE THE INVESTMENT AMOUNT
- Increasing road fund sources

INCREASE SOURCES OF PERSONNEL
- Prepare technologist
- Increase number of Professed workers
THANK YOU