

# Wikimedia Maps

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 @naveenpf

**In India, a death occurs every  
3.5 minutes due to road  
accidents**

# Road Data

- National Highways accounted for 30.4 per cent of total road accidents and 36.0 per cent of deaths in 2017.
- Accidents on State Highways constitute 25 per cent. In case of fatality, State Highways has accounted for 26.9 per cent.
- 63% people die on NH/SH. NH/SH - 3 lakhs kms

# Wikipedia:WikiProject Indian roads

## High reslution maps [ [edit source](#) ]

I was able to use Inkscape to generate good-quality maps of National Highways. I have created maps for first 75 national highways and will be continuing to make maps for the remaining highways. Please check and inform me if there are any errors.

[Abhijit Sathe](#) (talk) 5:11 am, 1 June 2009, Monday (9 years, 5 months, 16 days ago) (UTC+5.5)

really a tough job... carry on ... :) [Naveenpf](#) (talk) 6:45 am, 3 June 2009, Wednesday (9 years, 5 months, 14 days ago) (UTC+5.5)

Good work ! -- [Tinu Cherian](#) - 11:07 am, 3 June 2009, Wednesday (9 years, 5 months, 14 days ago) (UTC+5.5)

While i congratulate efforts of [Abhijit Sathe](#) in making the NH maps, I have a suggestion. How about using [Openstreetmap](#) data and generating maps, [Checkout here](#) . I think the national highway network is complete and it also has a decent coverage of State Highways as it was a bulk import donated data. Thoughts welcome

[Srikanth](#) <sup>†</sup> 7:42 pm, 11 June 2009, Thursday (9 years, 5 months, 6 days ago) (UTC+5.5)

Is Inkscape a free software? --[Like I Care](#) 8:04 pm, 11 June 2009, Thursday (9 years, 5 months, 5 days ago) (UTC+5.5)

Yes [Srikanth](#) <sup>†</sup> 8:08 pm, 11 June 2009, Thursday (9 years, 5 months, 5 days ago) (UTC+5.5)

great. If you guys dont mind sharing, how do you get or draw the Indian highways map to begin with? --[Like I Care](#)  
12:13 am, 12 June 2009, Friday (9 years, 5 months, 5 days ago) (UTC+5.5)



# Wikipedia:WikiProject Indian roads

## Collaboration with Openstreetmap [ edit source ]

I think it is time to collaborate with [openstreetmap.org](http://openstreetmap.org) . We must try to mark and get the svgs from osm for all National highways and State Highways. I think Planemad can help on this. Personally i tried draw the map but couldnt do it . Heard that there is a Map party in koramangala next week.--[naveenpf](#) ([talk](#))

10:48 am, 20 August 2009, Thursday (9 years, 2 months, 28 days ago) (UTC+5.5)

I tried this soon after last meet. There is [Query-to-map](#) tool which ~~works for~~ used to work for london, but never worked for india. I then tried to render tiles by setting up a custom tile server which also failed.I must retry the setting up the server again.If you have time, try give a shot, instructions [here](#). Planemad any other ideas? [Srikanth](#) ([speak](#)) 2:49 pm, 22 August 2009, Saturday (9 years, 2 months, 26 days ago) (UTC+5.5)

Looks like Kolossos the [Query-to-map](#) tool was built on top of XAPI, which is a service which has been having some scaling problems lately. There's a few people tackling this.

As for Mapnik rendering, it's a bit of a technical beast to get running. It's usually best to try running mapnik with `generate_image.py` (so just for an individual image) before attempting a tile server. How far did you get? You can always ask questions directly to the OpenStreetMap community ([contact channels](#))

-- [Harry Wood](#) ([talk](#)) 10:47 pm, 17 March 2011, Thursday (7 years, 7 months, 31 days ago) (UTC+5.5)

## Link to NH maps from openstreetmap [ edit source ]

I think its about time to have a functionality to link to [osm](http://osm) for more detailed maps. The Indian map has been growing steadily and i think it has matured to the point where we can make use of the data in wikipedia. Already most of the national highways have been mapped and now even state highways are getting added especially in the southern states. Currently there is a very simple template to link to `{{OSM}}` data: [1247233](#) ([x](#) [a](#) [j](#) [h](#)) [WikiProject Indian roads/Archive 1 on OpenStreetMap](#) The other national highway relations are [here](#). Since the map is updated automatically as people add data, we wont need to worry about manually creating maps --

[PlaneMad](#)[YakYak](#) 2:29 pm, 7 November 2010, Sunday (8 years, 9 days ago) (UTC+5.5)

Hi PlaneMad, how to do it for state highways ? --[naveenpf](#) ([talk](#)) 1:36 pm, 14 November 2010, Sunday (8 years, 2 days ago) (UTC+5.5)

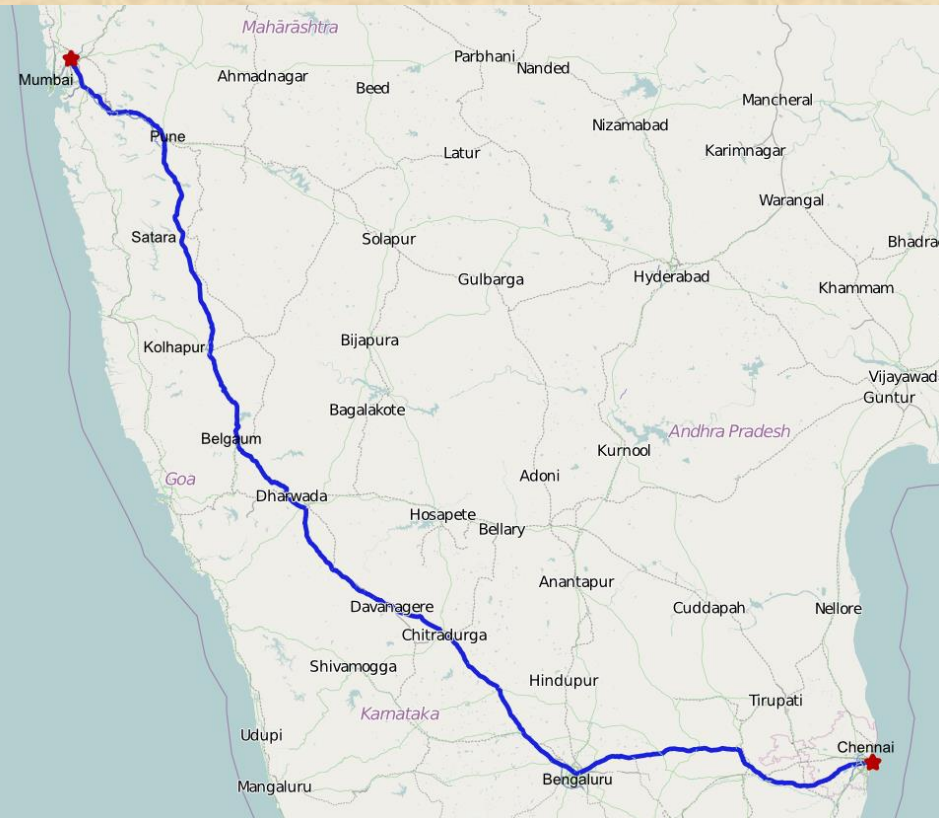
Its the same process, you create a relation (group) of required ways in osm. see [\[4\]](#) and [\[5\]](#) for help regarding this. as a sample i just made a relation for tamilnadu sh121 [1272158](#) ([x](#) [a](#) [j](#) [h](#)) [WikiProject Indian roads/Archive 1 on OpenStreetMap](#)

-- [PlaneMad](#)[YakYak](#) 12:56 am, 15 November 2010, Monday (8 years, 1 day ago) (UTC+5.5)

Hi PlaneMad, some one is already making relation of National Highways in OSM project [http://wiki.openstreetmap.org/wiki/Indian\\_Roads\\_Taskforce](http://wiki.openstreetmap.org/wiki/Indian_Roads_Taskforce) . I have created a page for kerala state highways. We check whether query to map will work on Indian roads. --[naveenpf](#) ([talk](#))

7:47 am, 15 November 2010, Monday (8 years, 1 day ago) (UTC+5.5)

# Wikipedia:WikiProject Indian roads



## External links [ edit | edit source ]

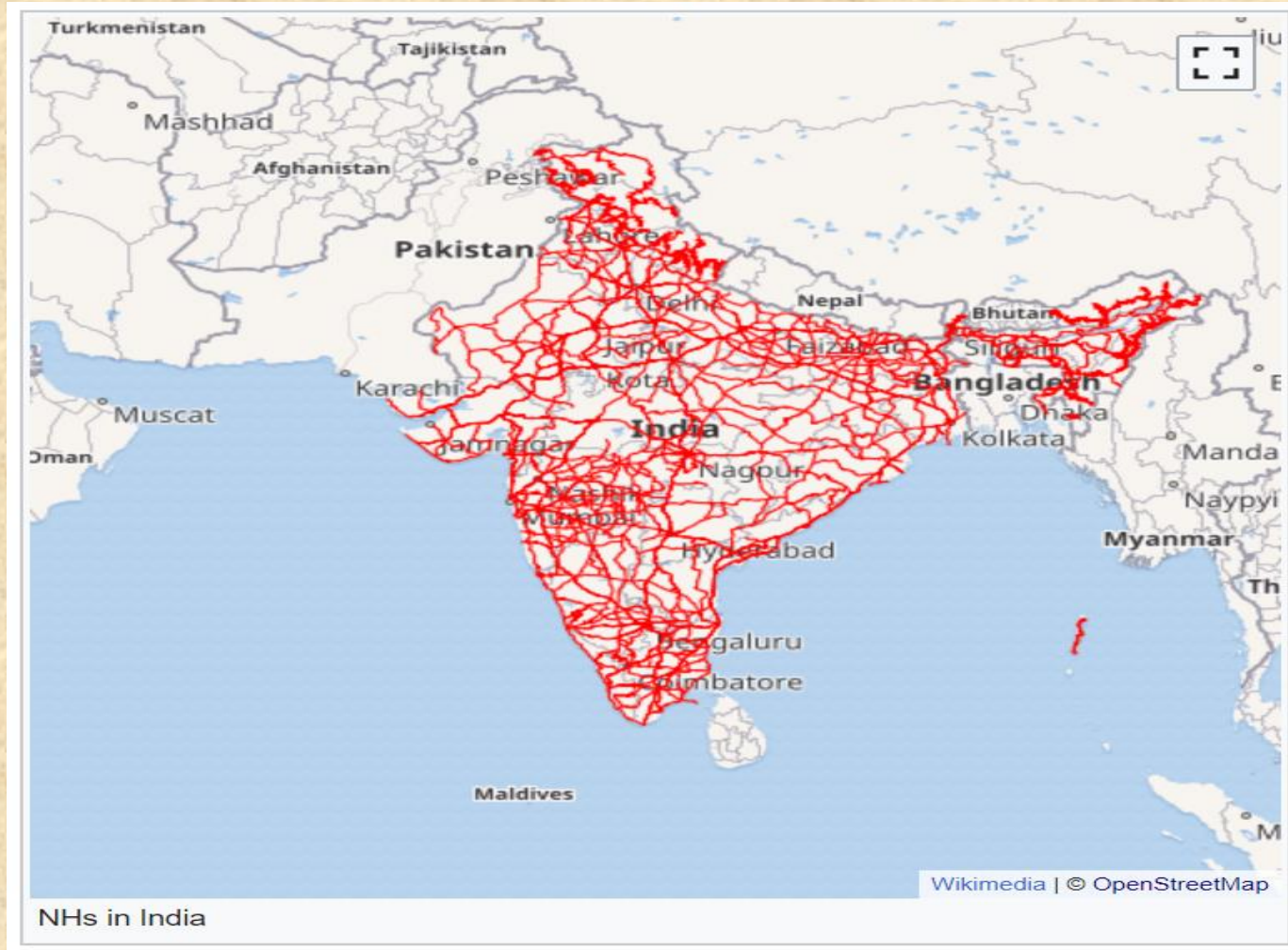
- [NH 43 on OpenStreetMap](#)<sup>↗</sup>

[Route map](#)



**National Highway 2**

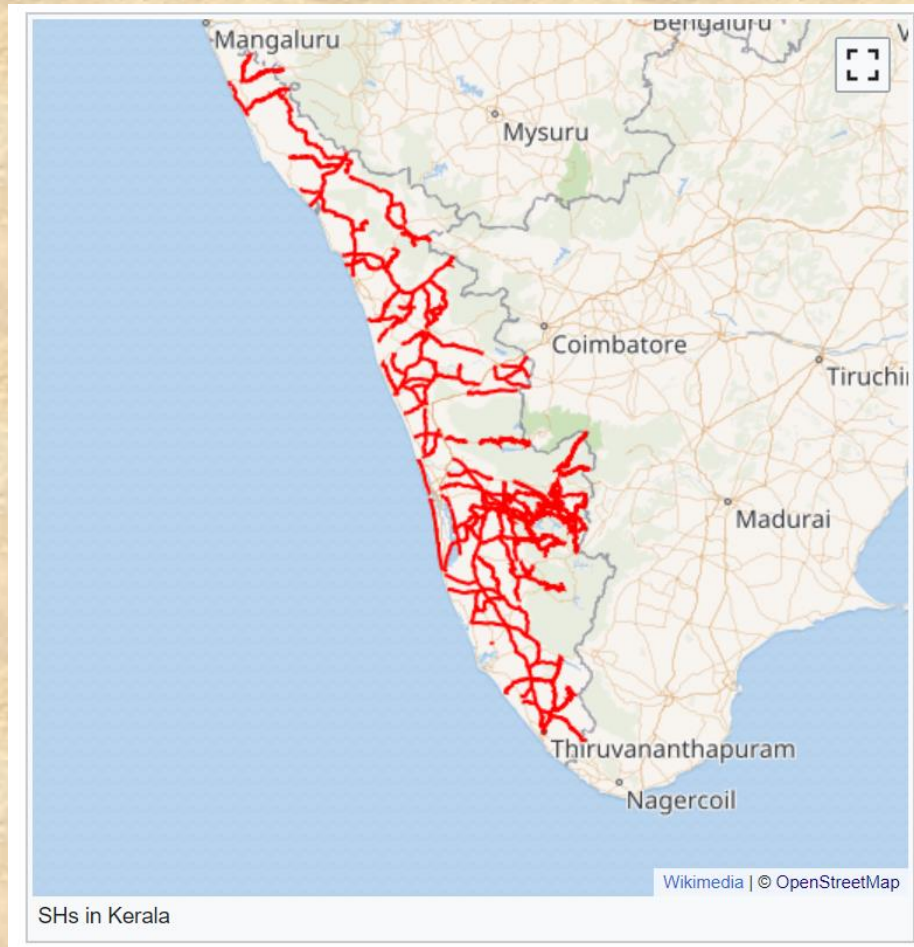
# National Highway Mapping



[https://en.wikipedia.org/wiki/National\\_Highway\\_\(India\)](https://en.wikipedia.org/wiki/National_Highway_(India))

Thank you ... User:[Heinz V](#), User: [Jazze7](#), User:[Vonter](#)

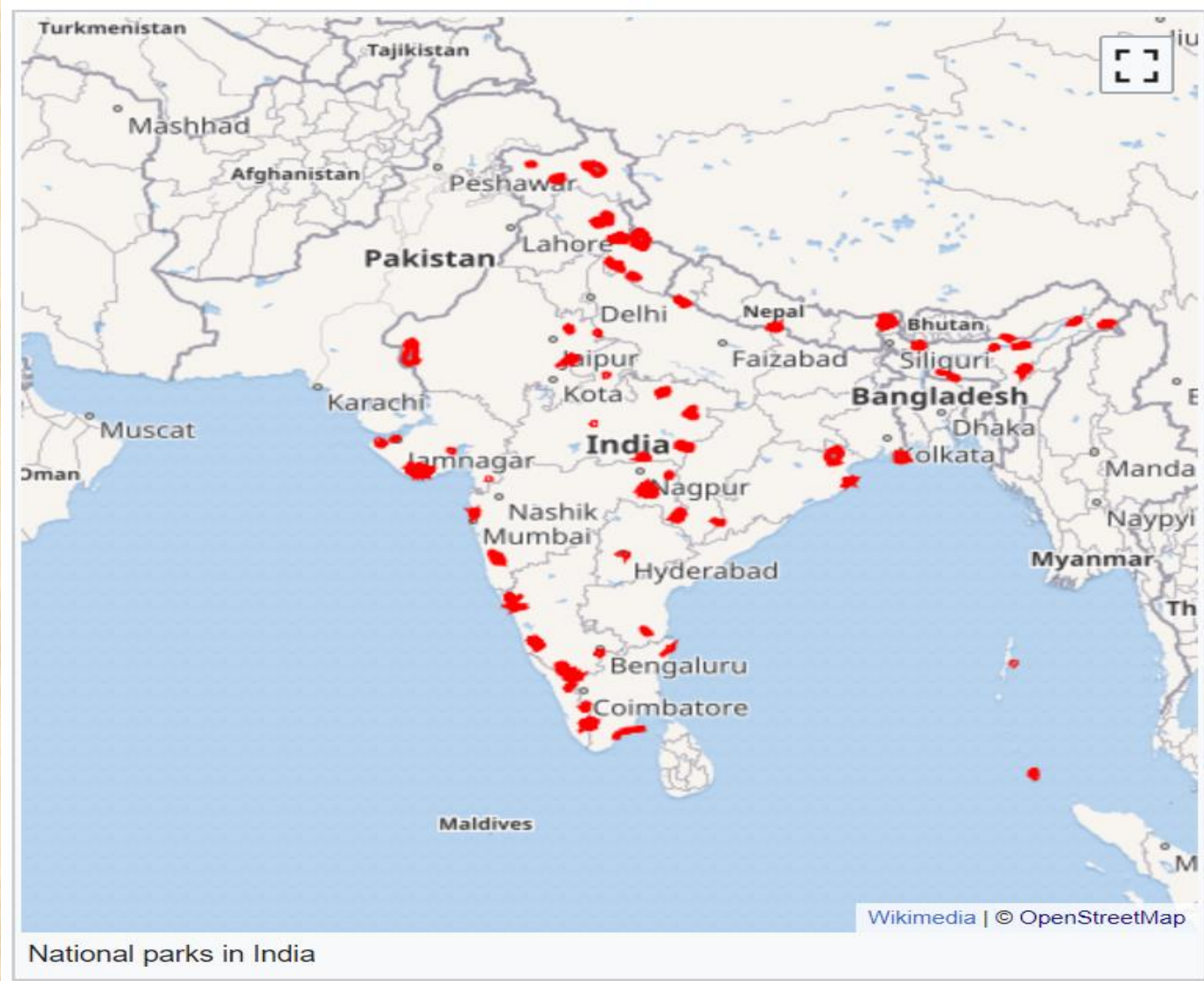
# State Highway Mapping



[https://en.wikipedia.org/wiki/List\\_of\\_state\\_highways\\_in\\_Kerala](https://en.wikipedia.org/wiki/List_of_state_highways_in_Kerala)

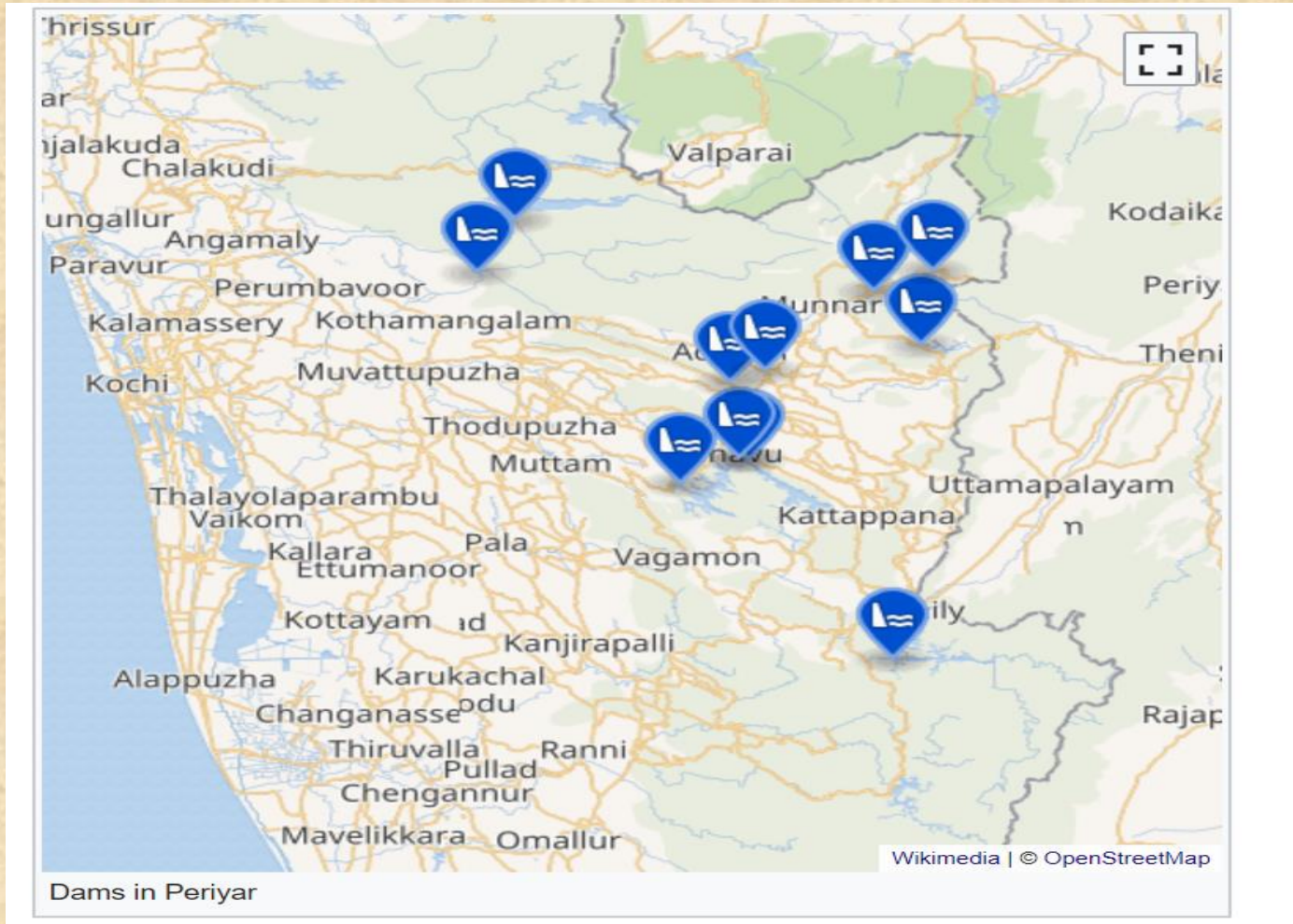


# National Parks in India



[https://en.wikipedia.org/wiki/List\\_of\\_national\\_parks\\_of\\_India](https://en.wikipedia.org/wiki/List_of_national_parks_of_India)

# Dams in Periyar

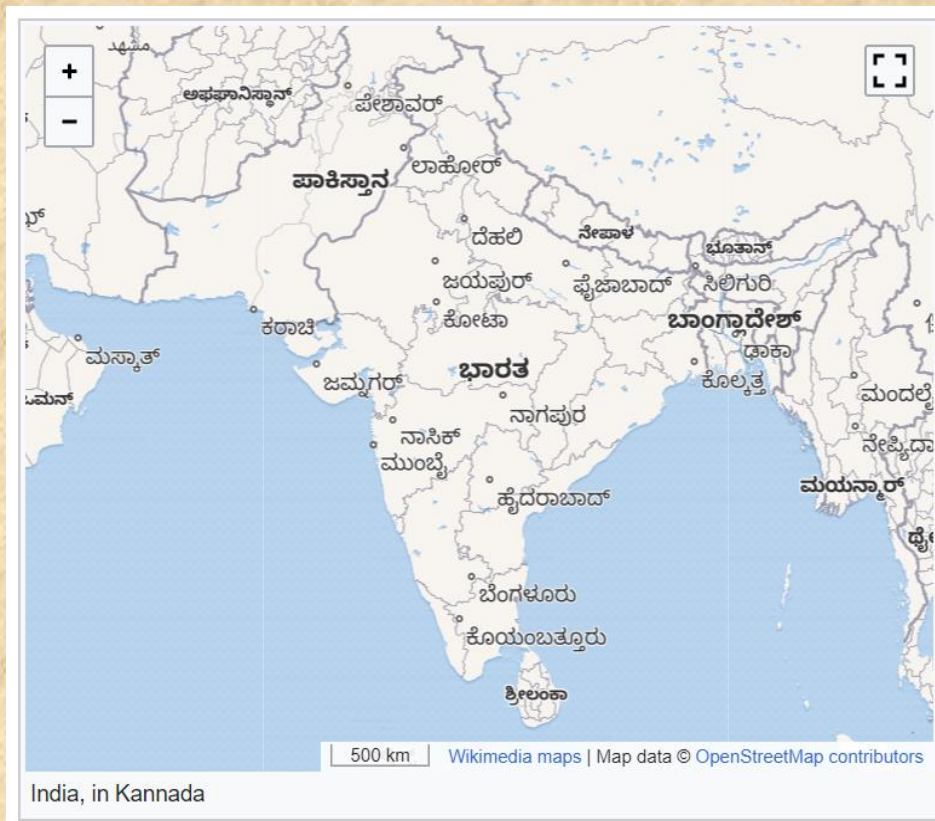
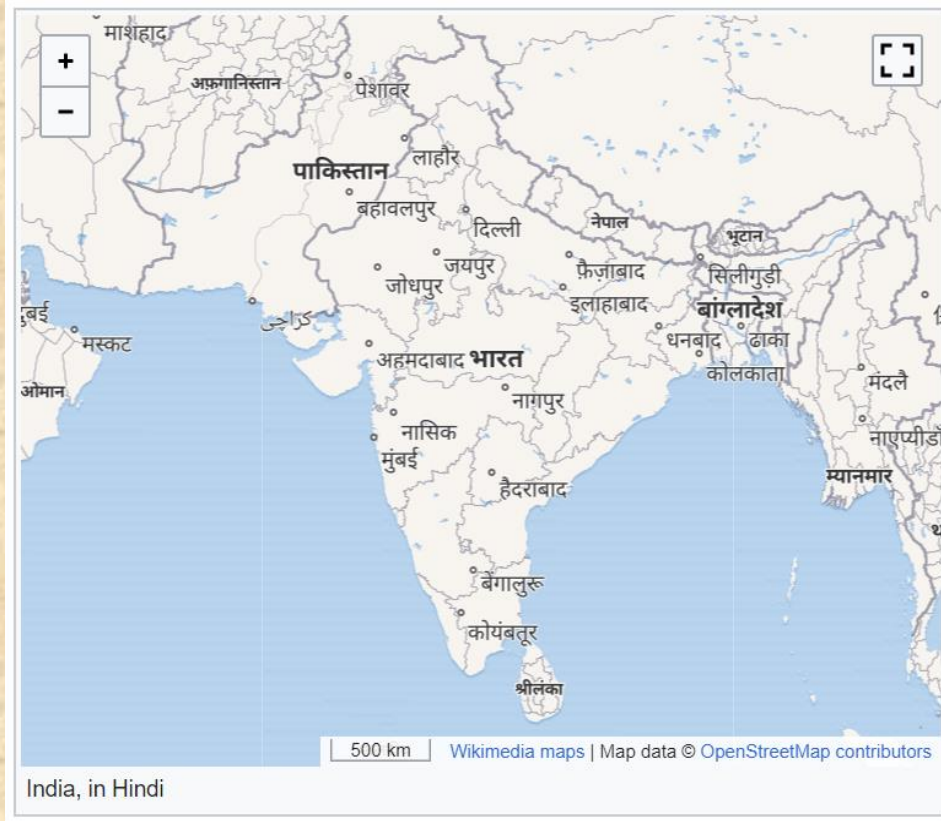


[https://en.wikipedia.org/wiki/Idukki\\_Dam#Usage](https://en.wikipedia.org/wiki/Idukki_Dam#Usage)

# Wikimedia Maps

- OSM powers WMF's **Kartotherian** map tile service, which is used by the **Kartographer MediaWiki extension** and almost all other interactive maps on Wikimedia projects.
- Map internationalization launched everywhere—and embedded maps now live on 276 Wikipedias

# Map internationalization



```
<mapframe latitude="21" longitude="78" zoom="5" text="India, in Hindi"
zoom="4" width="500" height="400" align="left" lang="hi" />
```

**276 Wikipedias !!!**

# Wikimedia Maps



# Kartographer Extension

- OSM objects can link to corresponding Wikipedia articles and Wikidata items using the `wikipedia=*` and `wikidata=*` tags respectively.
- Wikidata has items, statements, properties, values, qualifiers, etc.

The screenshot shows the Wikidata page for the Indian Institute of Management Bangalore (Q46021). The page is in English and includes a search bar, navigation links, and a table of labels and descriptions in various languages. A sidebar on the left contains navigation links, and a right sidebar shows a list of Wikipedia entries in multiple languages.

Language	Label	Description	Also known as
English	Indian Institute of Management Bangalore	Management school in India	IIMB
Malayalam	ഇന്ത്യൻ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് മാനേജ്മെന്റ്, ബാംഗ്ലൂർ	No description defined	Indian Institute of Management ... ഐ.ഐ.എം. ബാംഗ്ലൂർ ഇന്ത്യൻ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓ... IIM Bangalore
British English	No label defined	No description defined	
Hindi	भारतीय प्रबंध संस्थान बंगलूर	No description defined	भारतीय प्रबंधन संस्थान

Wikipedia (8 entries) edit

- ar المعهد الهندي للإدارة بنغالور
- en Indian Institute of Management Bangalore
- hi भारतीय प्रबंध संस्थान बंगलूर
- kn ಇಂಡಿಯನ್ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್ ಬೆಂಗಳೂರು
- ml ഇന്ത്യൻ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് മാനേജ്മെന്റ്, ബാംഗ്ലൂർ
- ta இந்திய மேலாண்மை கழகம் பெங்களூரு
- te ఇండియన్ ఇన్‌స్టిట్యూట్ ఆఫ్ మేనేజ్‌మెంట్ బెంగుళూరు
- zh 印度管理研究所邦加羅爾分校

# ID Editor

### Edit feature

Point Line Area Save

Fountain i

All fields

Name Josephine Shaw Lowell Fountain

Add field: Address, Description, El...

All tags (2)

amenity	fountain	i
name	Josephine Shaw L...	i

All relations (0)

View on openstreetmap.org

The screenshot shows the ID Editor interface for editing a fountain feature. The sidebar on the left contains the following elements:

- Edit feature** header with a close button (X).
- Feature type: **Fountain** with an information icon (i).
- All fields** section:
  - Name** field: Josephine Shaw Lowell Fountain.
  - Add field** button: Address, Description, El...
- All tags (2)** section:

amenity	fountain	i
name	Josephine Shaw L...	i
- All relations (0)** section: +
- [View on openstreetmap.org](#)

The map on the right shows Bryant Park with the following landmarks and features:

- Le Pain Quotidien** (restaurant)
- IRT Flushing Line** (subway line)
- Josephine Shaw Lowell Fountain** (the feature being edited)
- Jose Bonifacio de Andrada e Silva** (monument)
- Southwest Porch** (structure)
- Crystal Palace** (structure)
- Bryant Park** (park area)

Map controls include a scale bar (50 ft), a Bing logo, and a footer with "live", "Aa", "1.9.8", "bhouse1", and "logout" buttons.

# Level0

## Level0 OpenStreetMap Editor

Reading URL <https://api.openstreetmap.org/api/0.6/relation/8831603>

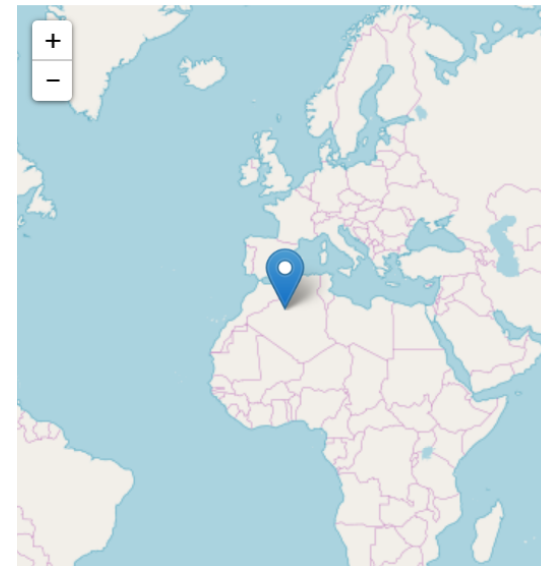
URL or group of IDs like "n54,w33":

OSM or OSC file:  No file chosen

You're naveenpf.

Changeset comment:

```
relation 8831603
network = IN:NH
ref = NH185
route = road
type = route
wikidata = Q28179247
wikipedia = en:National Highway 185 (India)
wy 81113615
wy 479213703
wy 285655916
wy 479213074
wy 618466423
wy 479213075
wy 618466421
wy 618466422
wy 618466424
wy 618466425
wy 384312298
wy 285869360
wy 285869370
wy 398487194
wy 286027825
wy 384312297
wy 286027824
wy 31715691
wy 378310636
```



<http://level0.osmz.ru/index.php>



# Kartographer Extension

- Kartographer tags `<mapframe>`, which embeds maps right in wiki pages, and `<maplink>`, which creates links to dynamic maps.

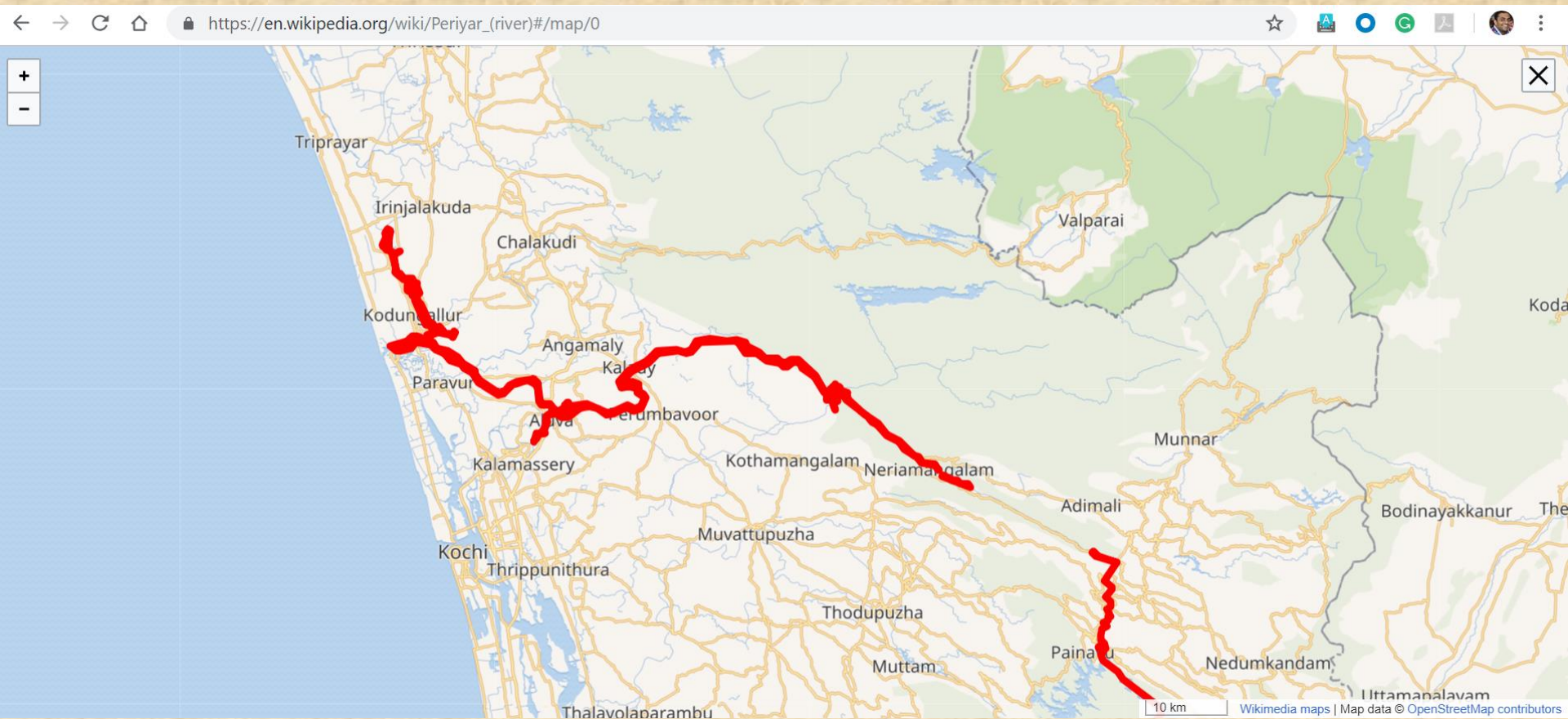
```
<mapframe text="Kargil district" width=300 height=300 align=center >
{ "type": "ExternalData", "service": "geoshape", "ids": "Q1650798"}
</mapframe>
```



# OpenStreetMap Awards

- Project was awarded **Innovation Award** (OpenStreetMap Awards) . The 2018 award ceremony took place on 30th of July at the State of the Map 2018 conference.
- [https://wiki.openstreetmap.org/wiki/OpenStreetMap\\_Awards](https://wiki.openstreetmap.org/wiki/OpenStreetMap_Awards)

# Challenges: River is line or shape ?



# Challenges: Changing of tags

- Changing of tags in Wikidata and OSM causes issues.
- Very difficult to find what tags has been changed.

# Challenges

Wikidata cannot wholesale import coordinates from OSM because OSM is licensed under the **Open Database License (ODbL)**.

*(We have a messy situation regarding EU database rights and the repeated extraction of insubstantial extracts.)*



# Challenges

OSM will *not* import coordinates from Wikidata despite the CC0 license because of **provenance issues** related to Google Maps and others.

*("It is an established principle in OpenStreetMap that we don't import geodata from Wikipedia.")*



# Challenges

There is some push back from the OSM community against bulk adding more **wikidata=\*** tags into OSM. The comments are eerily similar to Wikipedians’.

*(Example: “Could we just pause any wikidata edits for a month or two?”  
—[OSM talk mailing list thread](#))*





**WIKIMEDIA**  
FOUNDATION

- No Wikimedia Maps dedicated team
- Development only via Community Wishlist Survey (Voting is open for 2019)
- This year twice it went blank



**#opendata is the future**

**#opendata will win**

MINISTRY OF SCIENCE & TECHNOLOGY  
(DEPARTMENT OF SCIENCE & TECHNOLOGY)

### National Data Sharing and Accessibility Policy (NDSAP) – 2012

#### 1. Preamble

1.1 Asset and value potentials of data are widely recognized at all levels. Data collected or developed through public investments, when made publicly available and maintained over time, their potential value could be more fully realized. There has been an increasing demand by the community, that such data collected with the deployment of public funds should be made more readily available to all, for enabling rational debate, better decision making and use in meeting civil society needs. Principle 10 of the United Nations Declaration on Environment and Development (Rio de Janeiro, June 1992), stated

*".....each individual shall have appropriate access to information concerning the environment that is held by public authorities ..... and the opportunity to participate in the decision making process. States shall facilitate and encourage public awareness and participation by making information widely available."*

Section 4(2) of the Right to Information Act, 2005 reads

*"It shall be a constant endeavor of every public authority to take steps in accordance with the requirements of clause (b) of sub-section (1) to provide as much information suo motu to the public at regular intervals through various means of communication, including internet, so that the public have minimum resort to the use of this Act to obtain information"*

### Topics of the most popular open datasets

-  **Police and crime:** Police incidents; jail bookings; police station locations; crime statistics
-  **Transportation:** Taxi licenses; transit data; traffic counts; road infrastructure data; parking data
-  **Emergency calls:** Police, fire, and EMS responses; 911 calls; response times; incident reports
-  **Development:** Commercial developments; housing developments; property data; housing affordability
-  **Building safety:** Building permits; safety permits; certificates of occupancy
-  **Finance:** Revenue; spending; employee salaries; capital budgets; payments
-  **Elections:** Election results; polling locations; campaign finance reports
-  **Businesses and licenses:** Business licenses; liquor licenses; vendor, contract, and procurement data
-  **Inspections and service requests:** Restaurant health inspections; 311 requests; code violations
-  **Education:** Schools information; student health data; after-school programs; library locations



## Catalog Info

Get state wise list of Hospitals and other required Information like location, Category, Systems of Medicine, Contact Details, Area Pin Code, Email address, Website link, Specializations. The Ministry of Health a... [\[+\]](#)

Released Under: National Data Sharing and Accessibility Policy (NDSAP) [↗](#)

Contributor:

Ministry of Health and Family Welfare

Department of Health and Family Welfare

National Institute of Health and Family Welfare (NIHFW), New Delhi

Keywords: [Hospital](#) [Location](#) [Medicine](#)

[PINCODE](#) [NHP](#) [Care](#) [PIN](#)

Group: Directory Services

Sectors: [Health](#) [Family Welfare](#)

[Health and Family welfare](#)

Published on Data Portal: August 10, 2017

Source: data.gov.in



Chief Data Officer

6 Resource(s) found

Title

All

All

APPLY



National Hospital Directory with Geo Code and additional parameters (updated till last month)



Visual Access: NA



Granularity: Monthly



File Size: 9.86 MB



Download: 7 658



Reference URL:  
<http://www.nhp.gov.in/> [↗](#)



Data API



Note: NA/Blank: Not Available; data will be updated on regular interval



NIN Health Facilities with Geo Code and additional parameters (updated till last month)



Visual Access: NA



Granularity: Monthly



File Size: 25.41 MB



Download: 4 673



Reference URL:  
<http://www.nhp.gov.in/> [↗](#)



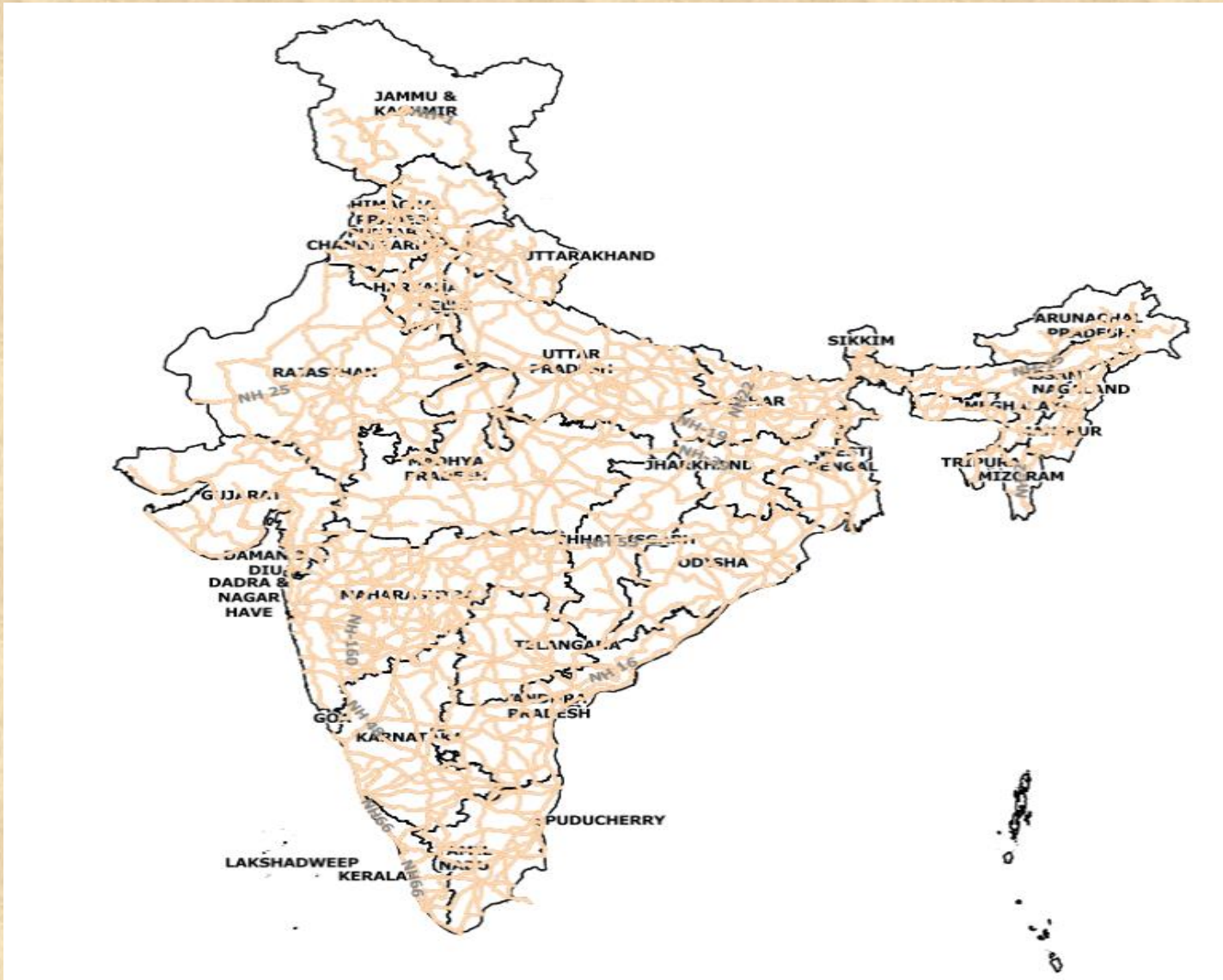
Request API: [👍 6](#)



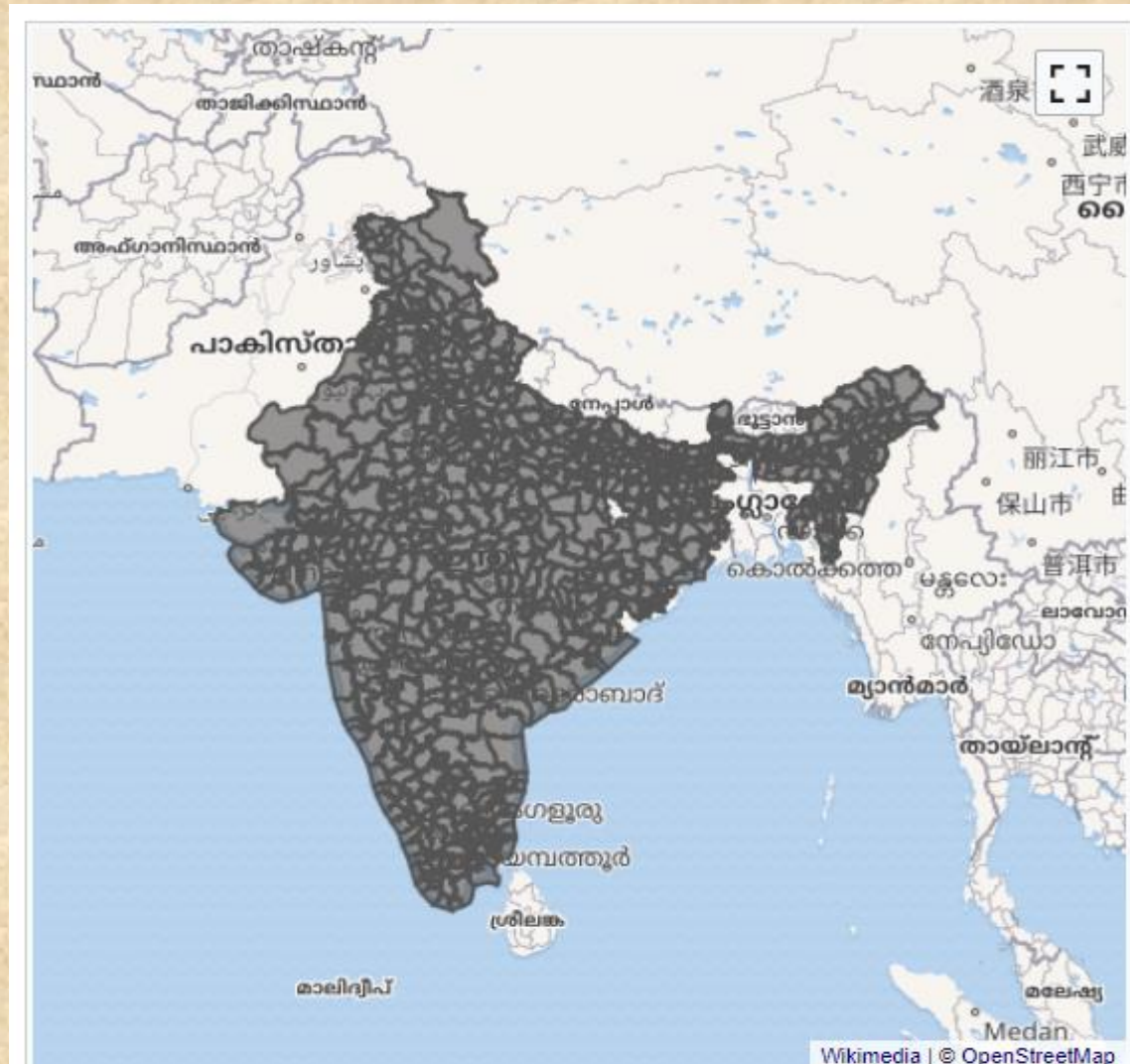
Note: NA/Blank: Not Available; data will be updated on regular interval; NIN: National Identification Number

- Admin Boundaries:- Districts, Taluk, Village
- Political Boundaries:- Lokshaba Constituency, Assembly Constituency, Local Government Boundaries
- Road Data Network- Similar to Project TIGER ??
  - SH lists available for 20 states, 14 states data not available

# BharatMala !!!



# Creating HOTOSM task !!!



Thank you