

# NGDR Geo Spatial API Sharing guideline using API Setu

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## API Setu

- Navigate API Setu URL: (apisetu.gov.in)
- Click on 'Directory' Link (https://directory.apisetu.gov.in/search) and
- Type keyword(s) like Ministry of Mines, NGDR or BISAG and following response is rendered.

The screenshot shows the API Setu Directory search results for the keyword 'NGDR'. The page features a navigation bar with the API Setu logo, a search bar containing 'NGDR', and buttons for 'Sign In' and 'Create Account'. Below the search bar, there are filters for 'Organisation Type', 'API Type', 'Categories', and 'Location'. The search results are displayed in a grid view, showing 4 publishers found with 9 APIs. The results are sorted by 'Relevant'.

**Filters**    Reset    Results 4 publishers found with 9 APIs.    View - Grid    Sort by - Relevant

**Organisation Type**

- State Government 3
- Central Government 1

**API Type**

- Docs 3
- Services 1

**Categories**

- Government & Public Se... 4

**Location**

Search Location

- Goa 1

**Results:**

- Directorate of Land Records and Settleme...**  
State Government  
Tripura  
To implement in National Generic Document Registration System (NGDRS) for Registration of documents/articles under...  
01 API Collection    01 API  
Government & Public Sector    Land  
Certificate  
Last updated: 2 years ago
- National Geoscience Data Repository (NGD...**  
Ministry Of Mines  
Gujarat  
BISAG-N is developing a portal for Ministry of Mines. The primary goal of the project is to disseminate geological...  
01 API Collection    04 APIs  
Government & Public Sector    Power  
Last updated: 1 day ago
- Department of Registration**  
State Government  
Jammu & Kashmir  
Department of Registration, Government of J&K provides citizens access to their Registered Sale Deed and Gift Deed...  
01 API Collection    02 APIs  
Government & Public Sector    Certificate  
Gov  
Last updated: 1 year ago

- Select appropriate link from the populated list as shown below.

(<https://directory.apisetu.gov.in/api-collection/bisag>)

The screenshot shows a web browser window displaying the API Setu website. The URL in the address bar is <https://directory.apisetu.gov.in/api-collection/bisag>. The website header includes the API Setu logo, a 'Directory' button, and navigation links for 'Directory', 'Resources', 'Category', 'Blog', and 'Join Us'. There are also 'Sign In' and 'Create Account' buttons.

The main content area features a 'Back' link and a card for the 'Ministry Of Mines National Geoscience Data Repository (NGDR)'. The card includes a logo, the text 'Ministry Of Mines', and the title 'National Geoscience Data Repository (NGDR)'. It also lists tags: 'Gujarat', 'Central Government', 'Government & Public Sector', and 'Power'. Below the tags, it says 'Provided by : BISAG-N' and has a 'Subscribe' button.

Below the card, there are two tabs: 'APIs Collections' (selected) and 'About'. Under 'APIs Collections', there is a dropdown menu for 'National Geoscience Data Repository (NGDR)'. The selected item is 'Geo Spatial Layers API'. Below this, there are three links: 'Get Commodity List', 'Get list of commodity state district wise.', and 'Authentication API - jwt-authentication'.

The right side of the page shows the 'National Geoscience Data Repository (NGDR)' API details. It includes a breadcrumb trail: 'National Geoscience Data Repository (NGDR) > Geo Spatial Layers API'. There is a 'Select Code Snippet' dropdown menu. The API title is 'National Geoscience Data Repository (NGDR)' with version indicators '3.0.0' and 'OAS 3.0'. Below the title, there is a description: 'National Geoscience Data Repository (NGDR) is a flagship initiative conceptualised by Ministry of Mines as a part of National Mineral Exploration Policy (NMEP), 2016 for hosting all exploration related geoscientific data for dissemination to all the stakeholders so as to expedite, enhance and facilitate the exploration coverage of the count. This API is for NGDR Token Authentication API.'

## Non-Geo Spatial API:

## Authentication API:

To enter theregistered Username and Password under Request body, click on 'Try it Out' Button

The screenshot shows a web browser window displaying the API Setu website. The URL is <https://directory.apisetu.gov.in/api-collection/bisag>. The page features a navigation bar with the API Setu logo, a 'Directory' button, and links for 'Directory', 'Resources', 'Category', 'Blog', and 'Join Us'. There are also 'Sign In' and 'Create Account' buttons. The main content area is titled 'Authentication API' and shows a 'POST /authenticate' endpoint. The 'Parameters' section indicates 'No parameters'. The 'Request body' section is marked as 'required' and has a dropdown menu set to 'application/json'. An 'Example Value' section shows a JSON object with 'username' and 'password' fields, both of type 'string'. A 'Try it out' button is visible in the top right of the endpoint details.

API Setu Directory

Sign In Create Account

National Geoscience Data Repository (NGDR)

Geo Spatial Layers API

Get Commodity List

Get list of commodity state district wise.

Authentication API - jwt-authentication

### Authentication API

**POST** /authenticate Authentication API - jwt-authentication

Parameters Try it out

No parameters

Request body *required* application/json

Example Value Schema

```
{
  "username": "string",
  "password": "string"
}
```

## Response after Successful Authentication:

Once you click on 'Execute button', token will be generated on the 'Response body'. User needs to copy the token value

The screenshot displays the API Setu web application interface. The browser address bar shows the URL `https://directory.apisetu.gov.in/api-collection/bisag`. The application header includes the API Setu logo, navigation links for Directory, Resources, Category, Blog, and Join Us, and buttons for Sign In and Create Account. A sidebar on the left lists various APIs under the National Geoscience Data Repository (NGDR), including Geo Spatial Layers API, Get Commodity List, Get list of commodity state district wise, and Authentication API - jwt-authentication. The main content area, titled 'Responses', shows the details of a successful authentication request. It includes a 'Curl' section with a `curl -X 'POST' \` command and headers for 'accept' and 'Content-Type', along with a JSON body containing 'username' and 'password'. The 'Request URL' is `https://geodataindia.gov.in/ngdrapi/authenticate`. The 'Server response' section shows a 'Code' of 200 and a 'Response body' containing a long alphanumeric 'token' value. A 'Download' button is visible next to the response body.

Next on APISetu Dashboard click on 'Authorize button' and paste the token value then click again on Authorize button

National Geoscience Data Repository (NGDR) > Get the list of geo spatial layers api

Documentation Performance Alerts

Select Code Snippet

### National Geoscience Data Repository (NGDR) 3.0.0 OAS 3.0

National Geoscience Data Repository (NGDR) is a flagship initiative conceptualised by Ministry of Mines as a part of National Mineral Exploration Policy (NMEP), 2016 for hosting all exploration related geoscientific data for dissemination to all the stakeholders so as to expedite, enhance and facilitate the exploration coverage of the count. This API is for NGDR Token Authentication API. [Updated on 27th October 2023]

[Terms of service](#)  
[Ministry of Mines - Website](#)  
[Send email to Ministry of Mines](#)

Servers

**Authorize**

Authentication API

State & District Wise Commodity List

### Available authorizations

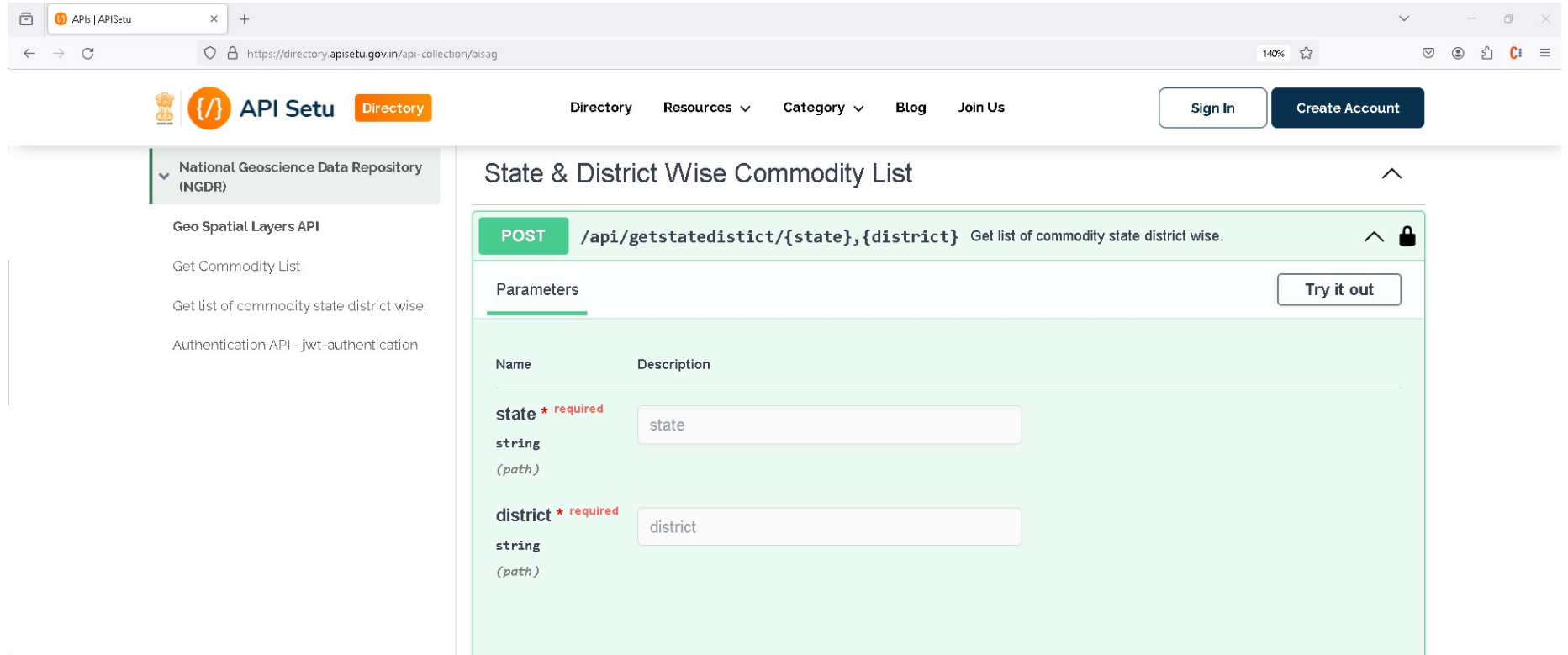
ngdrapi (http, Bearer)

Value:

**Authorize** **Close**

## State & District Wise Commodity List API:

After Successfully Authentication click on State District API to Get Value and Enter State and district name Parameters



The screenshot shows a web browser window displaying the API Setu website. The browser's address bar shows the URL `https://directory.apisetu.gov.in/api-collection/bisag`. The website header includes the API Setu logo, a 'Directory' button, and navigation links for 'Directory', 'Resources', 'Category', 'Blog', and 'Join Us'. There are also 'Sign In' and 'Create Account' buttons.

The main content area is titled 'State & District Wise Commodity List'. It features a green header bar with the following information:

- POST** `/api/getstatedistrict/{state},{district}` Get list of commodity state district wise.
- A 'Try it out' button.

Below the header, there is a 'Parameters' section with a table:

Name	Description
<b>state</b> * required string (path)	<input type="text" value="state"/>
<b>district</b> * required string (path)	<input type="text" value="district"/>

## Output:

After Clicking on Execute button you can find API Response in Response Body

The screenshot shows the API Setu interface. The top navigation bar includes the API Setu logo, a 'Directory' button, and links for 'Directory', 'Resources', 'Category', 'Blog', and 'Join Us'. On the right, there are 'Sign In' and 'Create Account' buttons. The left sidebar lists several APIs under the 'National Geoscience Data Repository (NGDR)' category: 'Geo Spatial Layers API', 'Get Commodity List', 'Get list of commodity state district wise.', and 'Authentication API - jwt-authentication'. The main content area is titled 'Execute' and contains a 'Clear' button. Below this, the 'Responses' section shows the 'Curl' command used for the request: 

```
curl -X 'POST' \
'https://geodataindia.gov.in/ngdrapi/api/getstatedistrict/ANDHRA%20PRADESH,Anantapur' \
-H 'accept: application/json' \
-H 'Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ1Z2RyIiwidXNlcmRldGFpbHMlOnsiaWQiOiJEWncwidXNlcm5hbWV1IiwiaWF0IjoiYm9keiJ9' \
-d ''
```

The 'Request URL' is `https://geodataindia.gov.in/ngdrapi/api/getstatedistrict/ANDHRA%20PRADESH,Anantapur`. The 'Server response' section shows a 'Code' of 200 and a 'Response body' containing a JSON array of commodity data for Andhra Pradesh, Anantapur district. The JSON response is: 

```
[
  {
    "commodity": "Asbestos,Chrysotile",
    "state_name": "ANDHRA PRADESH,KARNATAKA,TELANGANA",
    "district_name": "Anantapur,Jogulamba Gadwal,Kurnool,Nagarkurnool,Narayanpet,Prakasam,Raichur,Tumakuru,Wanaparthy,Y.S.R."
  },
  {
    "commodity": "Asbestos,Copper",
    "state_name": "ANDHRA PRADESH",
    "district_name": "Anantapur,Y.S.R."
  },
  {
    "commodity": "Asbestos,Copper,Baryte,Phosphorite",
    "state_name": "ANDHRA PRADESH",
    "district_name": "Anantapur,Y.S.R."
  },
  {
    "commodity": "Base Metal",
    "state_name": "ANDHRA PRADESH,KARNATAKA",
    "district_name": "Anantapur,Tumakuru"
  }
]
```



## Get Commodity List API:

To get data according to 'Commodity' click on Commodity API and Enter Commodity Name in Parameters

The screenshot displays the API Setu interface. At the top, there is a navigation bar with the API Setu logo, a 'Directory' button, and links for 'Directory', 'Resources', 'Category', 'Blog', and 'Join Us'. On the right side of the navigation bar, there are 'Sign In' and 'Create Account' buttons. The main content area is titled 'Get Commodity List' and features a 'POST' method indicator and the endpoint path `/api/getcommodity/{commodity}`. Below the endpoint, there is a 'Parameters' section with a 'Try it out' button. The parameter table shows a required string parameter named 'commodity' with a description 'commodity' and a text input field containing the value 'commodity'. The 'Responses' section is currently empty.

**API Setu** Directory

Directory Resources Category Blog Join Us Sign In Create Account

National Geoscience Data Repository (NGDR)

Geo Spatial Layers API

Get Commodity List

Get list of commodity state district wise.

Authentication API - jwt-authentication

### Get Commodity List

**POST** /api/getcommodity/{commodity} Get Commodity List

Parameters Try it out

Name	Description
<b>commodity</b> * required	
string	
(path)	

commodity

Responses

**Output:**



**Response after Successful Authentication:**

In Response Body you will find layer name and layer URL for Geo Spatial Layer



National Geoscience Data Repository (NGDR)

Geo Spatial Layers API

Get Commodity List

Get list of commodity state district wise.

Authentication API - jwt-authentication

Responses

Curl

```
curl -X 'POST' \
  'https://geodataindia.gov.in/ngdrapi/api/geologylayer' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJuZ2RyIiwidXNlcmRldGFpbHM0nsiaWQiOjEwNCwidXNlcm5hbGciOiJIUzUxMiJ9.eyJ1IjoiYm9keiJ9' \
  -d ''
```

Request URL

```
https://geodataindia.gov.in/ngdrapi/api/geologylayer
```

Server response

Code	Details
200	Response body

```
[
  {
    "layername": "geology_2m_gcs_ngdr_20_5,fault_2m_gcs_ngdr,thrust_2m_gcs_ngdr,thrust_2m_gcs_ngdr,commodity_2m_gcs_ngdr,label_lithology",
    "url": "https://geodataindia.gov.in/guestuser/wmsurl128/"
  }
]
```



Download

Open Layer Code Snippet:

<script>

```
var geourl = 'https://geodataindia.gov.in/guestuser/wmsurl128';
var layers = [
    new ol.layer.Tile({
        source : new ol.source.TileWMS({
            url: geourl,
            // crossOrigin: 'anonymous',
            params : { LAYERS: 'geology_2m_gcs_ngdr_20_5', VERSION: '1.1.1', transparent : true },
        }),
        showLegend: true,
        //maxResolution : 256,
        name : 'geology_2m_gcs_ngdr_20_5',
        visible: true
    }),
];
```

```
var map = new ol.Map({
    layers: layers,
    target: 'map',
    view: new ol.View({
        //center : ol.proj.transform([ parseFloat(lon), parseFloat(lat) ], 'EPSG:4326', 'EPSG:3857'),
        center : ol.proj.transform([ 75.5512, 24.5532 ], 'EPSG:4326', 'EPSG:3857'),
        zoom : 4
    }),
    controls: ol.control.defaults({
```

```
attributionOptions:/** @type{olx.control.AttributionOptions} */ ({  
  collapsible:false  
})  
})  
  
});  
  
</script>
```

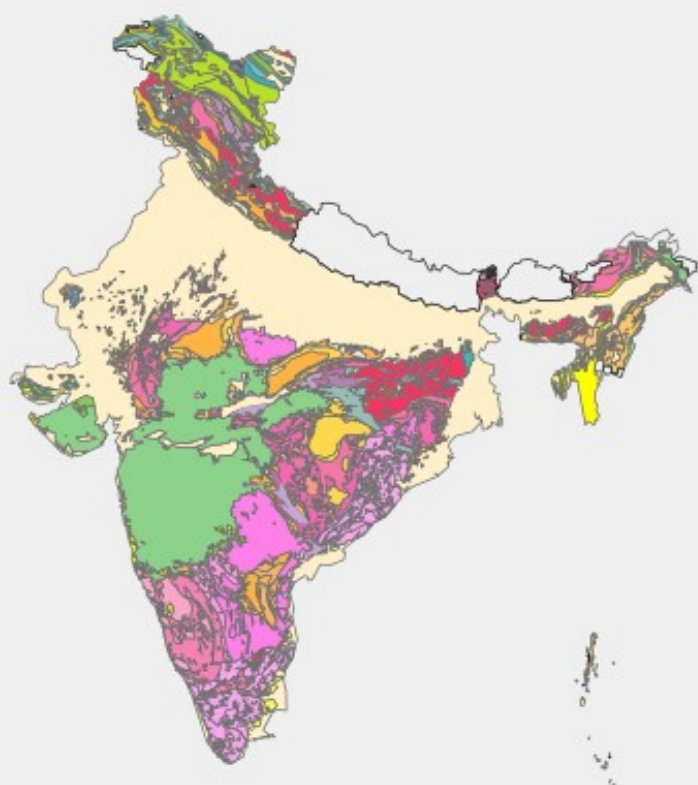
## Output

← → ↻ 127.0.0.1:5500/OpenLayer\_Example -Student.html ☆ 📄 ⬇️ 🗨️ 📄 🗑️ ☰

### Demo

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