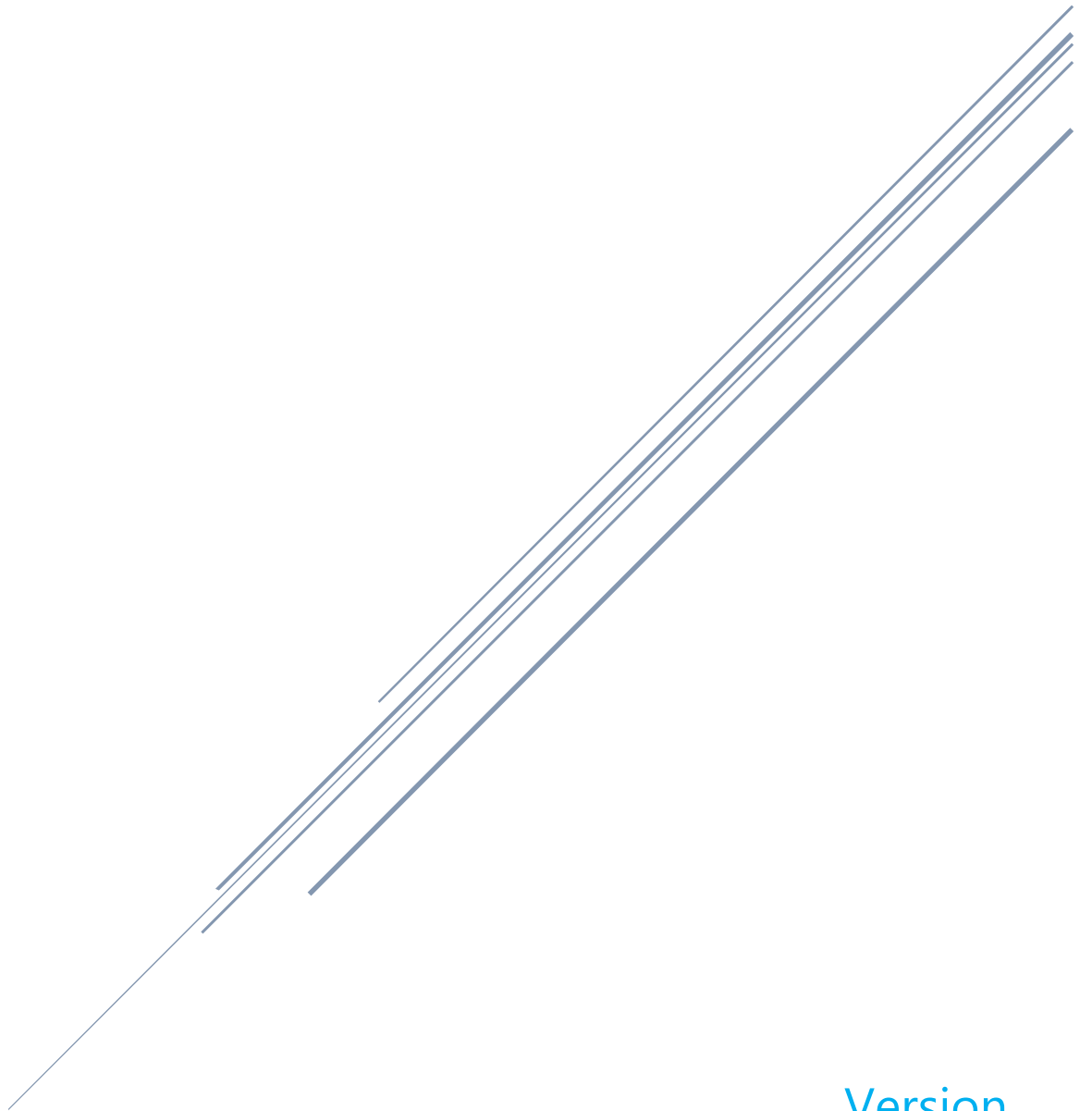


POSTAL PIN

API DOCUMENTATION



Version
1.0

Disclaimer and Notice

This documentation is prepared and published just for sample documentation work. It does not resemble any factual data and hence, this should not be used for any real-life implications.

Postal PIN API is a proprietary property of India Post under the Ministry of Communication, Government of India. Usage and Rate limits of Postal PIN API is subject to change as per the discretion of the Government of India.

Using the Postal PIN API for unsolicited purposes is a criminal offence under Indian Penal Code (IPC).

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Postal PIN API Overview

Postal PIN API is a web service that provides you location data for your Banking, Logistics, and Supply chain application and helps in running your operations smoothly by leveraging the information of 19000 PIN codes across India.

Postal PIN API helps developers to fetch information about the location(s) by searching for the postal PIN code or the Post office branch location from your website or mobile application. The web service uses ReST API operations with parameters encoded into request URL and response encoded in JSON format. It is designed for easy integration with most of the coding languages and works across popular frameworks.

Creating a Tenant Account

To use the Postal PIN API web service, you must [sign up for a tenant account](#) with the Postal PIN API and subscribe for desired web services and rate limits.

Features and Rate Limits

In this table the features and pricing of Postal PIN API are explained for different tenant group.

Tenant type	Student	Developer	Startup	MSME	Corporate
Rate limits/per day	100	5000	10000	100000	1000000
24x7 Customer support	No	Yes	Yes	Yes	Yes
Price (INR)/Month	Free	600	1200	1500	2000

Base URL

Following base URL is to be used for this API.

```
https://api.postalpincode.in
```

Authentication

Postal PIN API uses the API_key for authenticating paid services and it uses user authentication for free services.

Your API keys carry many privileges, so be sure to keep them safe! Do not share your secret API keys in publicly accessible areas such as GitHub, client-side code, and so forth.

Authentication to the API is performed via HTTP Basic Auth. Provide your API key as the basic auth user name value. You do not need to provide a password.

HTTPS Status Codes

HTTPS codes and their summary is explained in the following table for quick reference.

Code	Description
200 - OK	Success response.
400 - Bad Request	Missing parameter in request.
401 - Unauthorized	No valid API key provided.
402 - Request Failed	The parameters were valid, but the request failed.
403 - Forbidden	The API key doesn't have permission to perform the request.
404 - Not Found	The requested resource doesn't exist.
409 - Conflict	The request conflicts with another request (perhaps due to using the same API key).
429 - Too Many Requests	Too many requests hit the API too quickly. We recommend an exponential reduction in your requests.
500, 502, 503, 504 - Server Errors	Server Errors

Error Types

The following table describes the common error and its summary for developers' reference.

Error Type	Description
api_error	API errors cover any other type of problem (for example, temporary problem with Postal PIN servers), and these are extremely rare.
invalid_request_error	Invalid request errors arise when your request has invalid parameters.
No records found	You entered Invalid PIN code or location. Also, there could be no history of post office location in that location.

Handling Errors

Our client libraries raise exceptions for many reasons, such as a failed charge, invalid parameters, authentication errors, and network unavailability. We recommend writing code that gracefully handles all possible API exceptions.

API Functions

Currently, Postal PIN API is used for performing following operations:

1. To fetch post office details by using postal PIN code.
2. To fetch post office details by using the post office branch name.

Get Post Office(s) Details by Searching with Postal PIN Code

With the help of this API function, developers can use PIN code(s) and find the post office(s) mapped to the PIN code.

Sample Request

Following table consists of the sample request method and the end point of the API.

Request Method	Endpoint
GET	https://api.postalpincode.in/pincode/500001

Code Snippet (cURL)

You can use the request in cURL format if using any CLI interface.

```
curl --location --request GET 'https://api.postalpincode.in/pincode/500001'
```


Request Components

The following table describes the request components and their properties.

Request components	Attributes	Description
HTTP method	GET	Used to fetch the data from the database.
Resource	/pincode/	It is the repository that contains static data of the task.
Endpoint	https://api.postalpincode.in/pincode/{PINCODE}	It is a URL used to perform an action.

Request Parameters and Attributes

The following table describes the request parameters and their attributes.

Request Parameters	Attributes
Search Parameter	{PINCODE}
Parameter type	Numerical
Parameter priority	Mandatory
API_key	Your API Key

Sample Response (JSON)

The response of the above request is given below for reference.

```
[
  {
    "Message": "Number of pincode(s) found:5",
    "Status": "Success",
    "PostOffice": [
      {
        "Name": "Gandhi Bhawan (Hyderabad)",
        "Description": null,
        "BranchType": "Sub Post Office",
        "DeliveryStatus": "Non-Delivery",
        "Circle": "Andhra Pradesh",
        "District": "Hyderabad",
        "Division": "Hyderabad City",
        "Region": "Hyderabad City",
        "Block": "Nampally",
        "State": "Telangana",
        "Country": "India",
        "Pincode": "500001"
      },
      {
        "Name": "Hyderabad ",
        "Description": null,
        "BranchType": "Head Post Office",
```

```
        "DeliveryStatus": "Delivery",
        "Circle": "Andhra Pradesh",
        "District": "Hyderabad",
        "Division": "Hyderabad GPO",
        "Region": "Hyderabad City",
        "Block": "Hyderabad",
        "State": "Telangana",
        "Country": "India",
        "Pincode": "500001"
    },
    {
        "Name": "Moazzampura",
        "Description": null,
        "BranchType": "Sub Post Office",
        "DeliveryStatus": "Non-Delivery",
        "Circle": "Andhra Pradesh",
        "District": "Hyderabad",
        "Division": "Hyderabad City",
        "Region": "Hyderabad City",
        "Block": "Nampally",
        "State": "Telangana",
        "Country": "India",
        "Pincode": "500001"
    },
    {
        "Name": "Seetharampet",
        "Description": null,
        "BranchType": "Sub Post Office",
        "DeliveryStatus": "Non-Delivery",
        "Circle": "Andhra Pradesh",
        "District": "Hyderabad",
        "Division": "Hyderabad City",
        "Region": "Hyderabad City",
        "Block": "Nampally",
        "State": "Telangana",
        "Country": "India",
        "Pincode": "500001"
    },
    {
        "Name": "State Bank Of Hyderabad",
        "Description": null,
        "BranchType": "Sub Post Office",
        "DeliveryStatus": "Non-Delivery",
        "Circle": "Andhra Pradesh",
        "District": "Hyderabad",
        "Division": "Hyderabad City",
        "Region": "Hyderabad City",
        "Block": "Nampally",
        "State": "Telangana",
        "Country": "India",
        "Pincode": "500001"
    }
  ]
}
```

Response Parameters and Description

The following table describes the response values and their description.

Response Value	Description	Example
Message	Indicates total number of results available for a query.	Number of pincode(s) found
Status	Indicates success or issues in fetching the results.	Success or Error
Primary Element	Indicates whether post office exists in this location.	PostOffice
Sub Element	Sub-component of result, like address details	
- Name	Name of the location, tagged to this PIN code in alphabetical sequence.	Hyderabad
- Description	Description of the location.	null
- BranchType	Indicates whether the post office branch at the given location is a head post office, branch Post office, or sub-post office.	Head Post Office
- DeliveryStatus	Indicates whether the post office delivers mails or parcels to their customers.	Delivery
- Circle	Postal circle mapped to the post office.	Andhra Pradesh
- District	Sub-circle or the district mapped to the post office.	Hyderabad
- Division	Authorized post office mapped to the resultant post office.	Hyderabad GPO
- Region	Region where the post office exists.	Hyderabad City
- Block	Block area where the post office exists.	Hyderabad
- State	State where the post office exists.	Telangana
- Country	Country where the post office exists.	India
- Pincode	The queried PIN code and also the PIN code mapped to the post office.	500001

Get Post Office(s) Details by Searching with Post Office Branch Name

With the help of this API function, developers can use branch locations and find the nearest available post office(s).

Sample Request

Following table consists of the sample request method and the end point of the API.

Request Method	Endpoint
GET	https://api.postalpincode.in/postoffice/secunderabad

Code Snippet (cURL)

You can use the request in cURL format if using any CLI interface.

```
curl curl --location --request GET
'https://api.postalpincode.in/postoffice/secunderabad'
```

Request Components

The following table describes the request components and their properties.

Request components	Attributes	Description
HTTP method	GET	Used to fetch the data from the database.
Resource	/postoffice/	It is the repository that contains static data of the request.
Endpoint	https://api.postalpincode.in/postoffice/ {Branch location}	It is a URL used to perform an action.

Request Parameters and Attributes

The following table describes the request parameters and their attributes.

Request Parameters	Attributes
Search Parameter	{Branch Location}
Parameter type	Text
Parameter priority	Mandatory
API_key	Your API Key

Sample Response (JSON)

The response of the above request is given below for reference.

```
[
  {
    "Message": "Number of Post office(s) found:1",
    "Status": "Success",
```

```
    "PostOffice": [
      {
        "Name": "Secunderabad",
        "Description": null,
        "BranchType": "Head Post Office",
        "DeliveryStatus": "Delivery",
        "Circle": "Andhra Pradesh",
        "District": "Hyderabad",
        "Division": "Secunderabad",
        "Region": "Hyderabad City",
        "State": "Telangana",
        "Country": "India",
        "Pincode": "500003"
      }
    ]
  }
]
```

Response Parameters and Description

The following table describes the response values and their description.

Response Values	Description	Example
Message	Indicates total number of results available for a query.	Number of Post office(s) found
Status	Indicates success or issues in fetching the results.	Success or Error.
Primary Element	Whether the post office exists in this location.	PostOffice
Sub Element	Sub-component of result, like address details	
- Name	Name of the location, tagged to this PIN code in alphabetical sequence.	Aarambagh
- Description	Description of the location.	null
- BranchType	Indicates whether the post office branch at the given location is a head post office, branch post office, or sub-post office.	Head Post Office
- DeliveryStatus	Indicates whether the post office delivers mails or parcels to their customers.	Delivery
- Circle	Postal circle mapped to the post office.	Andhra Pradesh

Response Values	Description	Example
- District	Sub-circle or the district mapped to the post office.	Hyderabad
- Division	Authorized post office mapped to the resultant post office.	Secunderabad
- Region	Region where the post office exists.	Hyderabad City
- Block	Block area where the post office exists.	Hyderabad
- State	State where the post office exists.	Telangana
- Country	Country where the post office exists.	India
- Pincode	The queried PIN code and also the PIN code mapped to the post office.	500003

Resources

For more information, [click](#).