

# PostalProbe - Pincode A.P.I.

## 1. Get All Pincodes

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/all`

**Description:** List all the pincodes available in the database

**Response:**

```
[
{
  "id": {
    "officeName": " officeName value1",
    "pincode": pincode value1,
    "district": "district value1",
    "divisionName": " divisionName value1"
  },
  "circleName": " circleName value1",
  "officeType": " officeType value1",
  "delivery": delivery_value1,
  "stateName": " stateName value1"
},
{
  "id": {
    "officeName": " officeName value2",
    "pincode": pincode value2,
    "district": "district value2",
    "divisionName": " divisionName value2"
  },
  "circleName": " circleName value2",
  "officeType": " officeType value2",
  "delivery": delivery_value2,
  "stateName": " stateName value2"
},
]
```

```

{
  "id": {
    "officeName": " officeName value3",
    "pincode": pincode value3,
    "district": "district value3",
    "divisionName": " divisionName value3"
  },
  "circleName": " circleName value3",
  "officeType": " officeType value3",
  "delivery": delivery_value3,
  "stateName": " stateName value3"
}
.
.
.
{
  "id": {
    "officeName": " officeName value^n",
    "pincode": pincode value^n,
    "district": "district value^n",
    "divisionName": " divisionName value^n"
  },
  "circleName": " circleName value^n",
  "officeType": " officeType value^n",
  "delivery": delivery_value^n,
  "stateName": " stateName value^n"
}
]

```

## 2. Search by Pincode

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/{{pincode}}`

### **Description:**

- Returns an error message if no rows contain the pincode.
- Returns the entire row as a JSON object if a single row matches the pincode.
- Returns an array of office names if multiple rows match the pincode.

### **Response:**

#### **Single Match:**

```
{
  "id": {
    "officeName": " officeName value",
    "pincode": pincode value,
    "district": "district value",
    "divisionName": " divisionName value"
  },
  "circleName": " circleName value",
  "officeType": " officeType value",
  "delivery": delivery_value,
  "stateName": " stateName value"
}
```

#### **Multiple Matches:**

```
[
  "officeName1",
  "officeName2",
  .
  .
  .
  "officeNamen"
]
```

### 3. Search by District

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/search/district/{{district}}`

**Description:**

- Returns an error message if no rows match the district.
- Returns an array of objects with "Office Name", "Pincode", and "Delivery" values if rows match the district.

**Response:**

```
[
  {
    "officeName": " officeName value1",
    "pincode": pincode_value1,
    "delivery": delivery_value1
  },
  {
    "officeName": " officeName value2",
    "pincode": pincode_value2,
    "delivery": delivery_value2
  },
  {
    "officeName": " officeName value3",
    "pincode": pincode_value3,
    "delivery": delivery_value1
  },
  .
  .
  .
  {
    "officeName": " officeName value^n",
    "pincode": pincode_value^n,
    "delivery": delivery_value^n
  },
]
```

## 4. Search by Office Name

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/search/officename/{{officeName}}`

**Description:**

- Returns an error message if no rows match the office name.
- Returns the "Pincode" and "Delivery" values if a single row matches the office name.
- Returns an array of objects with "Circle Name", "Division Name", "Pincode", "District", and "StateName" values if multiple rows match the office name.

**Response:**

**Single Match:**

```
{
  "pincode": pincode_value,
  "delivery": delivery_value
}
```

**Multiple Matches:**

```
[
  {
    "CircleName": "CircleName value1",
    "DivisionName": "DivisionName value1",
    "Pincode": Pincode_value1,
    "District": "District value1",
    "StateName": "StateName value1"
  },
  {
    "CircleName": "CircleName value2",
    "DivisionName": "DivisionName value2",
    "Pincode": Pincode_value2,
    "District": "District value2",
    "StateName": "StateName value2"
  },
]
```

```
{
  "CircleName": "CircleName value3",
  "DivisionName": "DivisionName value3",
  "Pincode": Pincode_value3,
  "District": "District value3",
  "StateName": "StateName value3"
},
.
.
.
{
  "CircleName": "CircleName value^n",
  "DivisionName": "DivisionName value^n",
  "Pincode": Pincode_value^n,
  "District": "District value^n",
  "StateName": "StateName value^n"
}
]
```

## 5. Delivery Status for Pincode

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/deliverystatus/pincode/{{pincode}}`

**Description:**

- Returns the "Delivery" value as a message (e.g. "*Delivery is available*" for 'true' and "*Delivery is not available*" for 'false') if a single record matches the pincode.

- Returns an array of objects with "Office Name" and "Delivery" values if multiple records match the pincode.

**Response:**

**Single Match:**

```
{
  "message": "Delivery is available"
}
```

**Multiple Matches:**

```
[
  {
    "officeName": "officeName value1",
    "message": "message1"
  },
  {
    "officeName": " officeName value2",
    "message": "message2"
  },
  .
  .
  .
]
```

## 6. Delivery Status for Office Name

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/deliverystatus/officename/{{officeName}}`

**Response:**

```
{  
  "message": "Delivery is available"  
}
```

## 7. Delivery Status for Primary Key

**Method:** GET

**cURL:**

`https://localhost:44337/api/Pincode/deliverystatus/{{officeName}}/{{pincode}}/{{district}}/{{divisionName}}`

**Description:** User provides the complete composite primary key in the request and receives the delivery status in the response.

**Response:**

```
{  
  "message": "Delivery is available"  
}
```



## 8. Add Pincode Record

**Method:** POST

**cURL:** `https://localhost:44337/api/Pincode/add`

**Body:**

```
{
  "id": {
    "officeName": "string",
    "pincode": 0,
    "district": "string",
    "divisionName": "string"
  },
  "circleName": "string",
  "officeType": "string",
  "delivery": true,
  "stateName": "string"
}
```

**Description:** Add a new pincode record (Basic Authentication Required)

**Response:**

**Authorised User:** "Pincode added successfully"

**Unauthorized User:** "You need to provide valid credentials to access this resource."

## 9. Update Pincode Details

**Method:** PUT

**cURL:**

`https://localhost:44337/api/Pincode/{{officeName}}/{{pincode}}/{{district}}/{{divisionName}}`

**Body:**

```
{
  "id": {
    "officeName": "string",
    "pincode": 0,
    "district": "string",
    "divisionName": "string"
  },
  "circleName": "string",
  "officeType": "string",
  "delivery": true,
  "stateName": "string"
}
```

**Description:** All details of the pincode record can be updated except for the pincode. (Basic Auth Required)

**Response:**

**Authorised User:** "Pincode details updated successfully"

**Unauthorized User:** "You need to provide valid credentials to access this resource."

## 10. Delete Pincode Record

**Method:** DELETE

**cURL:**

`https://localhost:44337/api/Pincode/{{officeName}}/{{pincode}}/{{district}}/{{divisionName}}`

**Description:** Delete an existing Pincode record.

**Response:**

**Authorised User:** "Pincode deleted successfully"

**Unauthorized User:** "You need to provide valid credentials to access this resource."

## 11. Offices In a District

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/officetype/district/{{district}}/{{officeType}}`

**Description:** Pass the District and Office Type values in the request and get a list of office names with the specific office type in the particular district.

**Response:**

```
[
  "officeName1",
  "officeName2",
  "officeName3"
  .
  .
  .
  "officeNamen"
]
```

## 12. Offices In a Division

**Method:** GET

**cURL:**

`https://localhost:44337/api/Pincode/officetype/division/{{divisionName}}/{{officeType}}`

**Description:** Pass the Division and Office Type values in the request and get a list of office names with the specific office type in the particular division.

**Response:**

```
[  
    "officeName1",  
    "officeName2",  
    "officeName3"  
    .  
    .  
    .  
    "officeNamen"  
]
```

## 13. Get Office Type for an Office Name

**Method:** GET

**cURL:** `https://localhost:44337/api/Pincode/officetype/officename/{{officeName}}`

**Description:** Pass the Office Name value in the request and get the office type for the corresponding office name.

**Response:**

`"officeType"`

Variable	Description
<b>pincode</b>	6 digit number
<b>district</b>	Name of the district
<b>officeName</b>	Name of the OfficeName
<b>divisionName</b>	Name of the DivisionName
<b>officeType</b>	Name of the OfficeType (e.g. B.O, S.O, H.O)
<b>username</b>	Username used for Authentication(Basic Auth)
<b>password</b>	Password used for Authentication(Basic Auth)