

# Area Details by Pin Code Documentation

## Endpoint

POST /getAreaByPinV1\_tmt

## Description

This API endpoint is used to retrieve area details using a pin code. It is part of the sub-dealer module and provides information about the state, district, zone, cluster, and blocks associated with the provided pin code.

## Request Body

The request body should be a JSON object containing the following fields:

### Fields

Parameter	Type	Description	Required
pinNo	string	The pin code to retrieve area details for.	Yes

## Request Query Parameters

The request should also include the following query parameters:

Parameter	Type	Description	Required
division	integer	Division ID for the user making the request.	Yes

## Request Headers

Parameter	Type	Description	Required
emp_id	string	Employee ID of the person making the request.	Yes
zone	string	Zone ID of the person making the request.	Yes
state_id	string	State ID of the person making the request.	Yes
district	string	District ID of the person making the request.	Yes

cluster	string	Cluster ID of the person making the request.	Yes
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## Response

The response will be a JSON object with the following structure:

### ***Success Response (Status: 200)***

```
{
  "status": 1,
  "error": false,
  "msg": "Area details.",
  "details": {
    "pincode": "123456",
    "stateId": "1",
    "stateName": "State Name",
    "districtId": "123",
    "districtName": "District Name",
    "zone_id": "456",
    "zone_name": "Zone Name",
    "cluster_id": "789",
    "cluster_name": "Cluster Name",
    "blocks": [
      {
        "block_id": "1",
        "block_name": "Block 1"
      },
      {
        "block_id": "2",
        "block_name": "Block 2"
      }
    ]
  }
}
```

### **Error Response (Status: 400 or 500)**

```
{  
  "status": 0,  
  "error": true,  
  "msg": "Error message",  
  "details": null  
}
```

### **Error Codes and Messages**

- **400 - Bad Request:** The input data is invalid or incomplete. Specific error messages include:
  - "Please provide pin code!"
  - "We are not serviceable in this area."
  - "You don't have permission in this area."
  - "Unable to get area details!"
  - "Not able to find state, district, cluster, zone."
  - "Area details not found!"
- **500 - Internal Server Error:** A general server error, such as database connectivity issues or unexpected failures.

### **Logic Flow**

1. **Pin Code Validation:**
  - a. The request checks if the provided pin code exists. If not, it returns a validation error.
2. **Database Lookup:**
  - a. The system first checks for any existing pin code data in the database (excluding states and districts with certain conditions).
  - b. If data exists, it fetches the associated state, district, zone, and cluster details and returns them as part of the response.
3. **External API Call:**
  - a. If the pin code data does not exist in the database, an external API (PostalPinCode API) is called to fetch the district and state data.
  - b. The state and district information is then used to insert new data into the database and fetch additional details (zone, cluster, blocks).

4. **Permission Check:**

- a. If the user's `division`, `state_id`, or `district_id` doesn't match with the available data, the response will indicate a permission error.

5. **State Restrictions:**

- a. Certain states are not serviceable, such as West Bengal, and the API will return an error if the pin code corresponds to these states.

6. **Final Response:**

- a. If all conditions are met, the details such as `state`, `district`, `zone`, `cluster`, and `blocks` associated with the pin code are returned.

## Example Request

```
{
  "pinNo": "123456"
}
```

## Notes

- The system uses the external **PostalPinCode API** to fetch information when the pin code data is not available in the database.
- Permission checks are implemented to ensure the user is authorized to view the area details.
- Some areas, such as specific states, may not be serviceable. These are defined within the code and will return an error if a pin code from these areas is requested.

## Security

Ensure that only authorized users with the correct `emp_id`, `zone`, `state_id`, `district`, and `cluster` can access the details based on the `division` parameter.