## **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 |

### **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**:
   1. The request checks if the provided pin code exists. If not, it returns a validation error.
2. **Database Lookup**:
   1. The system first checks for any existing pin code data in the database (excluding states and districts with certain conditions).
   2. 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**:
   1. 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.
   2. 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**:
   1. 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**:
   1. 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**:
   1. 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.