

## Migrate to MapmyIndia APIs Distance Matrix API

This document will guide you through the different request and response parameters of MapmyIndia's Distance Matrix API and how you can extract data analogous to Google Distance Matrix service from MapmyIndia Distance Matrix API.

MapmyIndia			Google																				
<b>Endpoint for using Distance Matrix API:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <caption style="text-align: center;">Table 1. Requesting a Distance Time Matrix</caption> <thead> <tr> <th style="width: 15%;">Element</th> <th style="width: 35%;">Value</th> <th style="width: 50%;">Description</th> </tr> </thead> <tbody> <tr> <td>Base URL</td> <td><a href="https://apis.mapmyindia.com/advancedmaps/v1/">https://apis.mapmyindia.com/advancedmaps/v1/</a></td> <td>Service address</td> </tr> <tr> <td>Authorization</td> <td>"assigned_REST_license_key"</td> <td>The REST API license key authorized to access the resource</td> </tr> <tr> <td rowspan="2">Resources</td> <td>distance_matrix</td> <td>To calculate the duration without considering traffic conditions.</td> </tr> <tr> <td>distance_matrix_eta</td> <td>To get the duration considering live traffic.</td> </tr> <tr> <td>Profile</td> <td>driving</td> <td>Meant for car routing</td> </tr> <tr> <td>Coordinates</td> <td>"start and secondary coordinates"</td> <td>The coordinates pairs on which route is to be calculated. Minumum two pairs needed.</td> </tr> </tbody> </table> <p>The example is also provided below.</p>			Element	Value	Description	Base URL	<a href="https://apis.mapmyindia.com/advancedmaps/v1/">https://apis.mapmyindia.com/advancedmaps/v1/</a>	Service address	Authorization	"assigned_REST_license_key"	The REST API license key authorized to access the resource	Resources	distance_matrix	To calculate the duration without considering traffic conditions.	distance_matrix_eta	To get the duration considering live traffic.	Profile	driving	Meant for car routing	Coordinates	"start and secondary coordinates"	The coordinates pairs on which route is to be calculated. Minumum two pairs needed.	<b>Endpoint for using Distance Matrix API:</b> <a href="https://maps.googleapis.com/maps/api/distancematrix/json?">https://maps.googleapis.com/maps/api/distancematrix/json?</a>
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<b>Required parameters in a Distance Matrix request:</b> <ol style="list-style-type: none"> <li>1. license key (part of the URL)</li> <li>2. source "longitude,latitude" location coordinates (part of the URL)</li> <li>3. secondary "longitude,latitude" location coordinates (part of the URL)</li> </ol>			<b>Required parameters in a Distance Matrix request:</b> <ol style="list-style-type: none"> <li>1. origins</li> <li>2. destinations</li> <li>3. key</li> </ol>																				

## Migrate to MapmyIndia APIs

### Distance Matrix API

#### Finding the durations in the response:

```
...
" Durations": [
  [
    0,
    1644.9,
    2552.7
  ]
]
...
```

The unit of value of durations is in seconds.

The duration comes as an array according to the sequence of input locations.

Thus, if the duration from the first to the third location is to be determined, the third object in the array needs to be picked up.

The first duration is always zero since the route to first coordinates is calculated from itself.

#### Finding the durations in the response:

```
...
" Duration": {
  "text": "3 hours 43 mins",
  "value": 13373
},
...
```

#### Finding the distances in the response:

```
...
" Distances": [
  [
    0,
    14007,
    26416.9
  ]
]
...
```

The unit of value of distances is in metres.

The distance comes as an array according to the sequence of input locations.

Thus, if the distance from the first to the third location is to be determined, the third object in the array needs to be picked up.

The first distance is always zero since the route to first coordinates is calculated from itself.

#### Finding the distances in the response:

```
...
" Distance": {
  "text": "205 km",
  "value": 204577
},
...
```

## Migrate to MapmyIndia APIs

### Distance Matrix API

**Documentation link:**

<https://github.com/kunalbharti/mapmyindia-rest-api-beta/tree/master/mapmyindia-distance-matrix-api>

**Sample Response:**

```
{
  "responseCode": 200,
  "version": "191.17",
  "results": {
    "code": "Ok",
    "distances": [
      [
        0,
        14007,
        26416.9
      ]
    ],
    "durations": [
      [
        0,
        1644.9,
        2552.7
      ]
    ]
  }
}
```

**Documentation link:**

<https://developers.google.com/maps/documentation/distance-matrix/intro>

**Sample Response:**

```
{
  "destination_addresses": [
    "43-44, pocket B, Sector 14, Hisar, Haryana 125001, India"
  ],
  "origin_addresses": [
    "Jammu - Delhi Road, Ambala Cantt, Haryana 133005, India"
  ],
  "rows": [
    {
      "elements": [
        {
          "distance": {
            "text": "205 km",
            "value": 204577
          },
          "duration": {
            "text": "3 hours 43 mins",
            "value": 13373
          },
          "status": "OK"
        }
      ]
    }
  ],
  "status": "OK"
}
```