Solar Analysis Platform

System Ready

Location | Analysis | Results

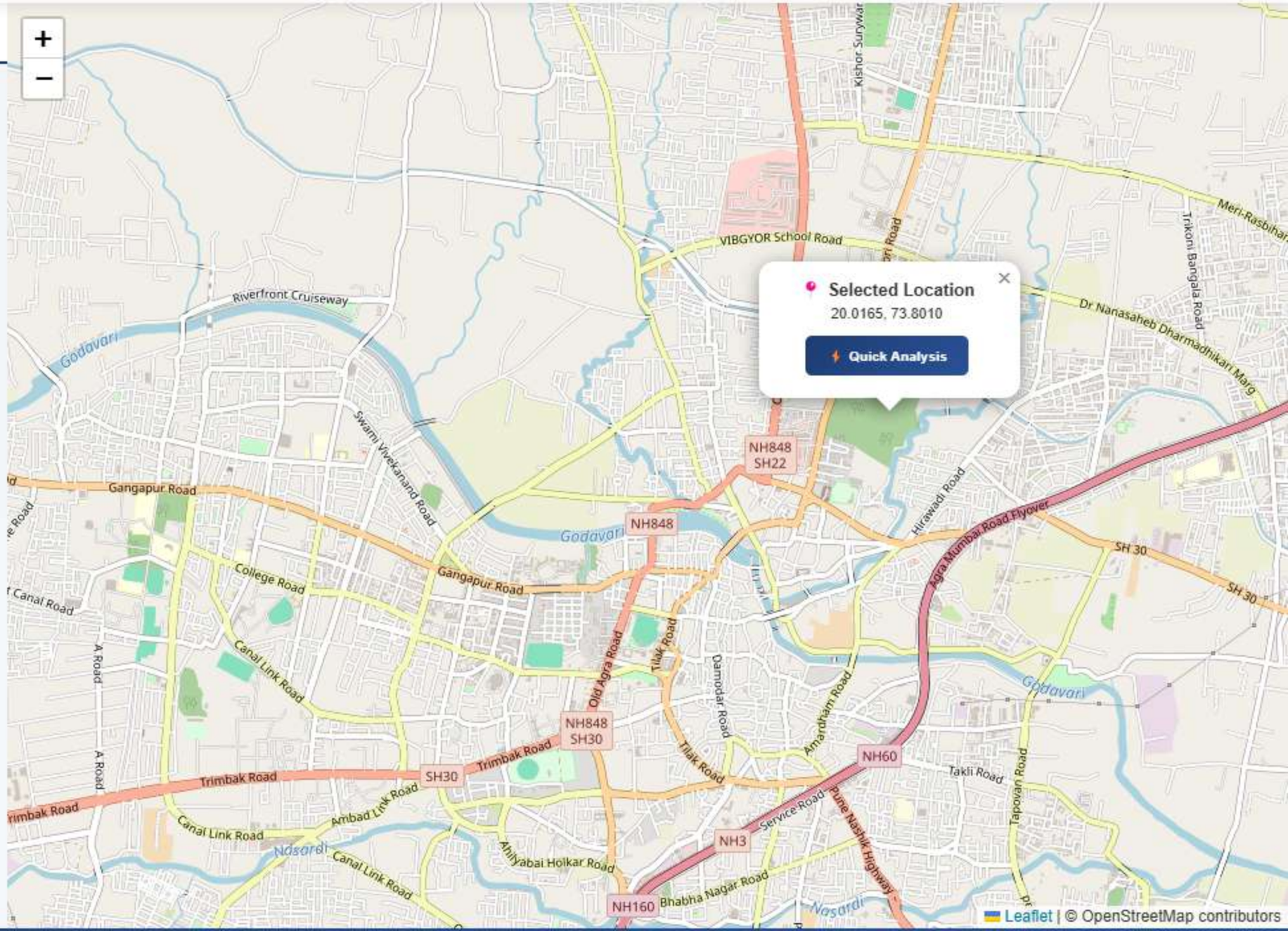
Analysis Results

Annual Generation **2,832 kWh**	Capacity Factor **3.2%**
Annual Savings **₹21,240**	Payback Period **30.6 years**
CO_2 Avoided **2,322 kg/year**	LCOE **₹14.69/kWh**

Export Results

Generate Report

System Log +



Solar Energy Analysis Report

Generated on 9/19/2025

Project Location

Coordinates: 20.0165°, 73.8010°

Solar Resource: 1850 kWh/m²/year

Climate Zone: Tropical

System Configuration

System Size: 10 kW

Panel Type: mono

Installation: rooftop

Orientation: 21° tilt, 180° azimuth

Performance Results

Annual Generation: 2,832 kWh

Capacity Factor: 3.2%

Specific Yield: 283 kWh/kW

System Efficiency: 15%

Financial Analysis

Annual Savings: ₹21,240

Payback Period: 30.6 years

LCOE: ₹14.69/kWh

System Cost: ₹650,000

Environmental Impact

CO_2 Avoided: 2,322 kg/year

25-Year CO_2 Reduction: 58,050 kg

Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

Coordinates

19.0760 | 72.8777

Analyze This Location

Use My Location

IN India Quick Select

Major Cities

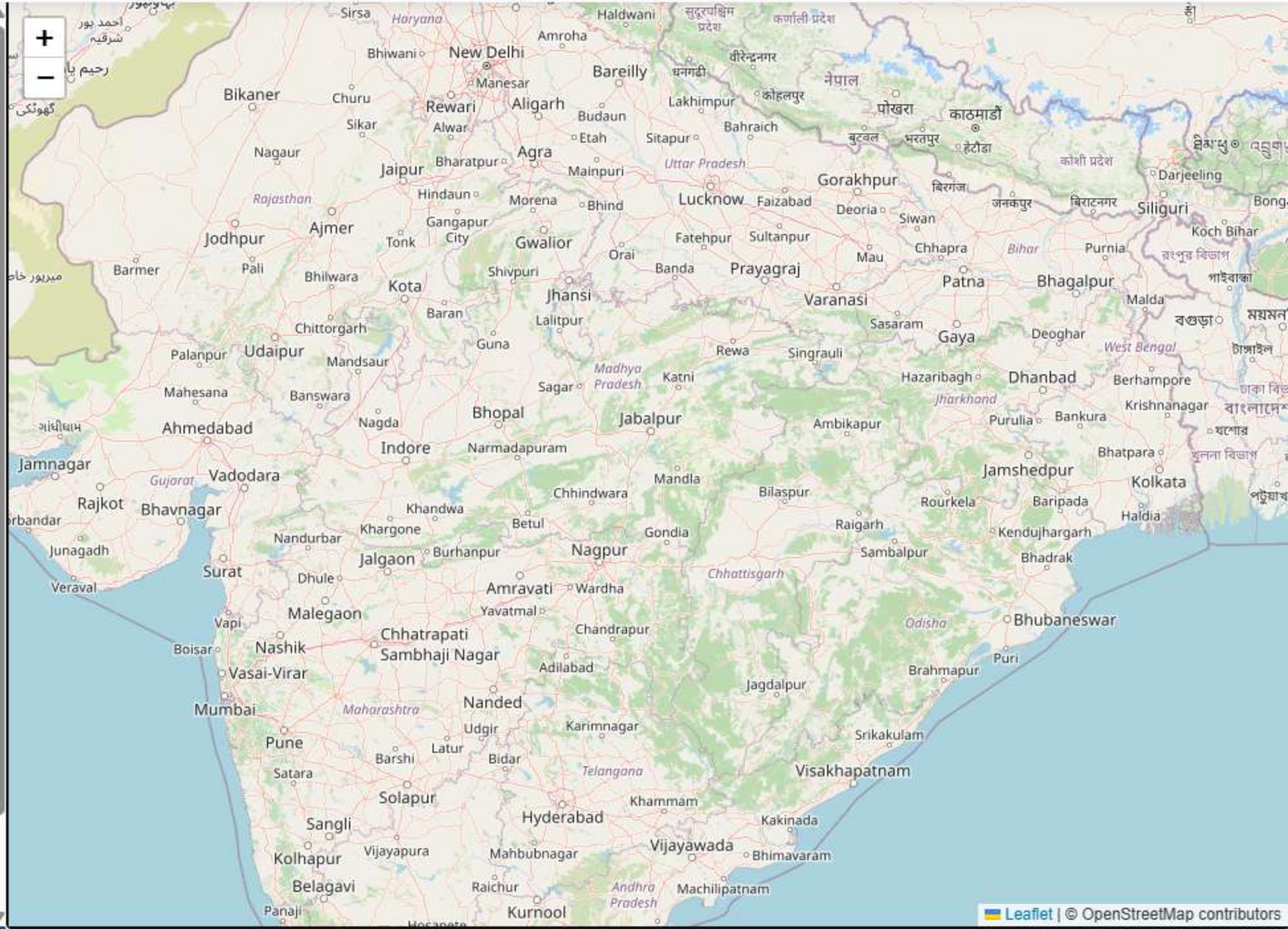
Select City

Location Details

Solar Resource | Climate Zone

1850 kWh/m²/year | Tropical

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

- Global View
- Asia
- Africa
- Europe
- Americas
- Oceania

IN India Quick Select

Major Cities

Select City

Location Details

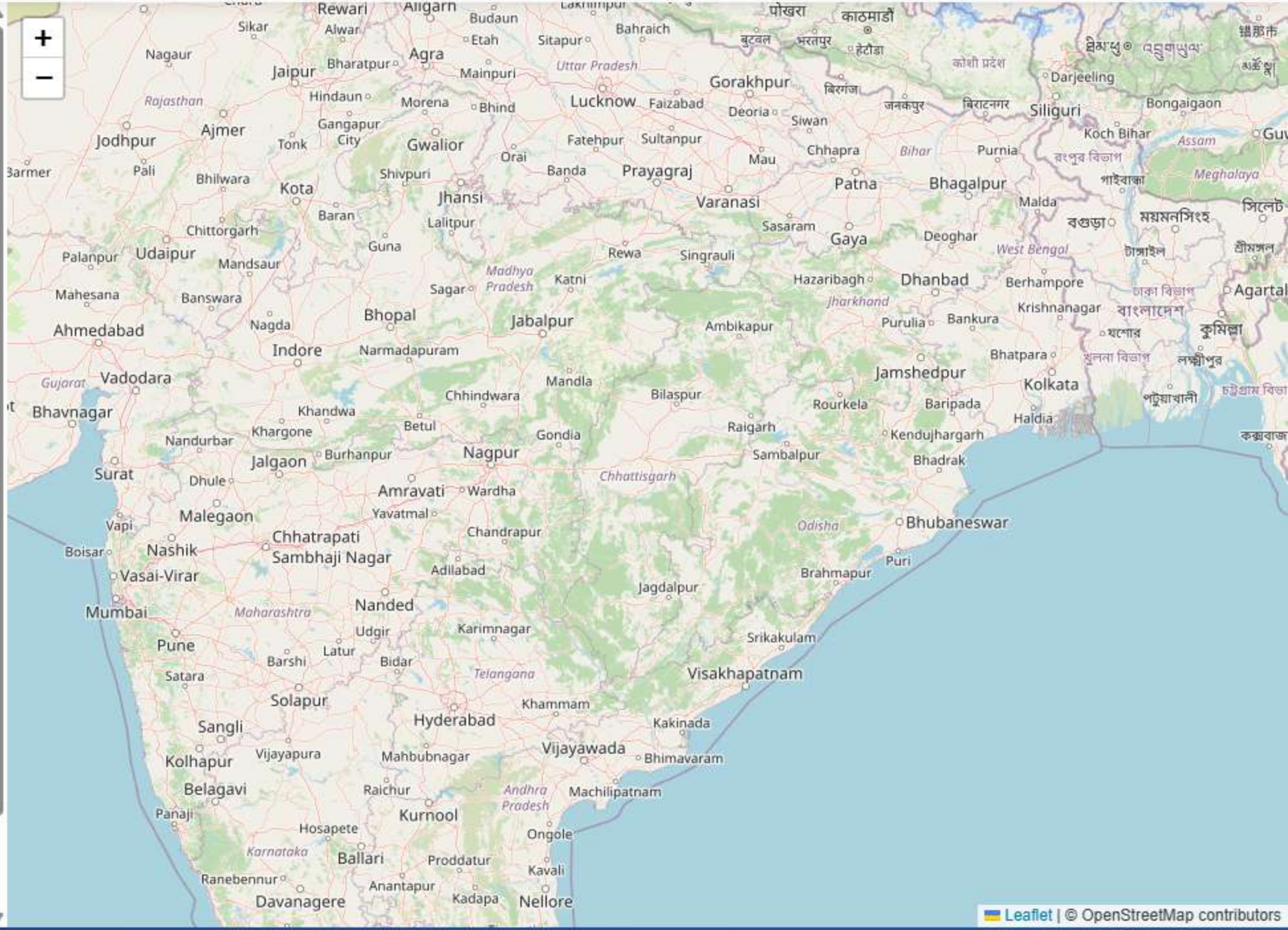
Solar Resource

1850 kWh/m²/year

Climate Zone

Tropical

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

Coordinates

19.0760 | 72.8777

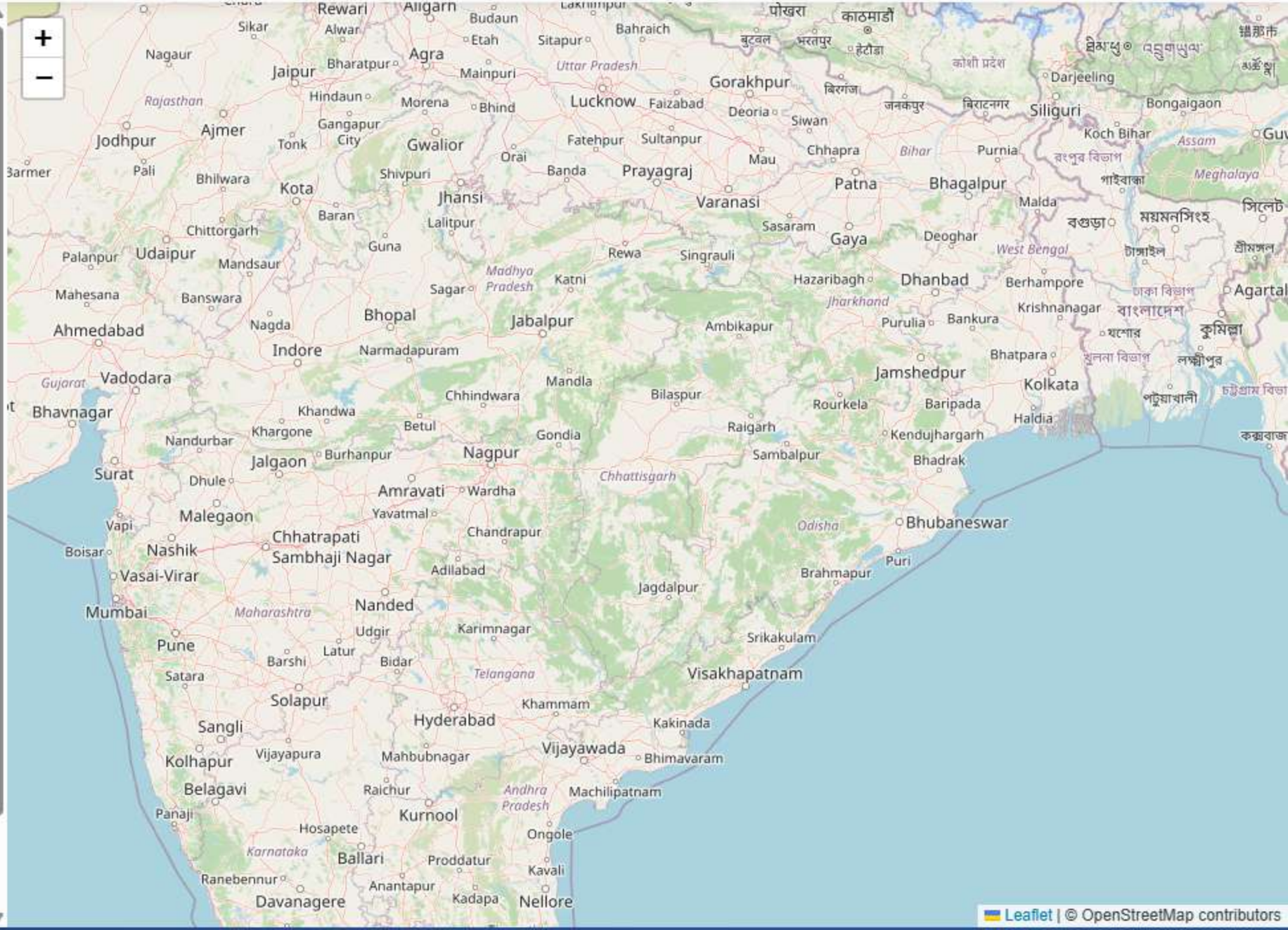
Select City
Delhi
Mumbai
Bangalore
Chennai
Kolkata
Ahmedabad
Jaipur
Hyderabad

Select City

Location Details

Solar Resource	Climate Zone
1850 kWh/m²/year	Tropical

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

Coordinates

28.6324 | 77.2198

Analyze This Location

Use My Location

IN India Quick Select

Major Cities

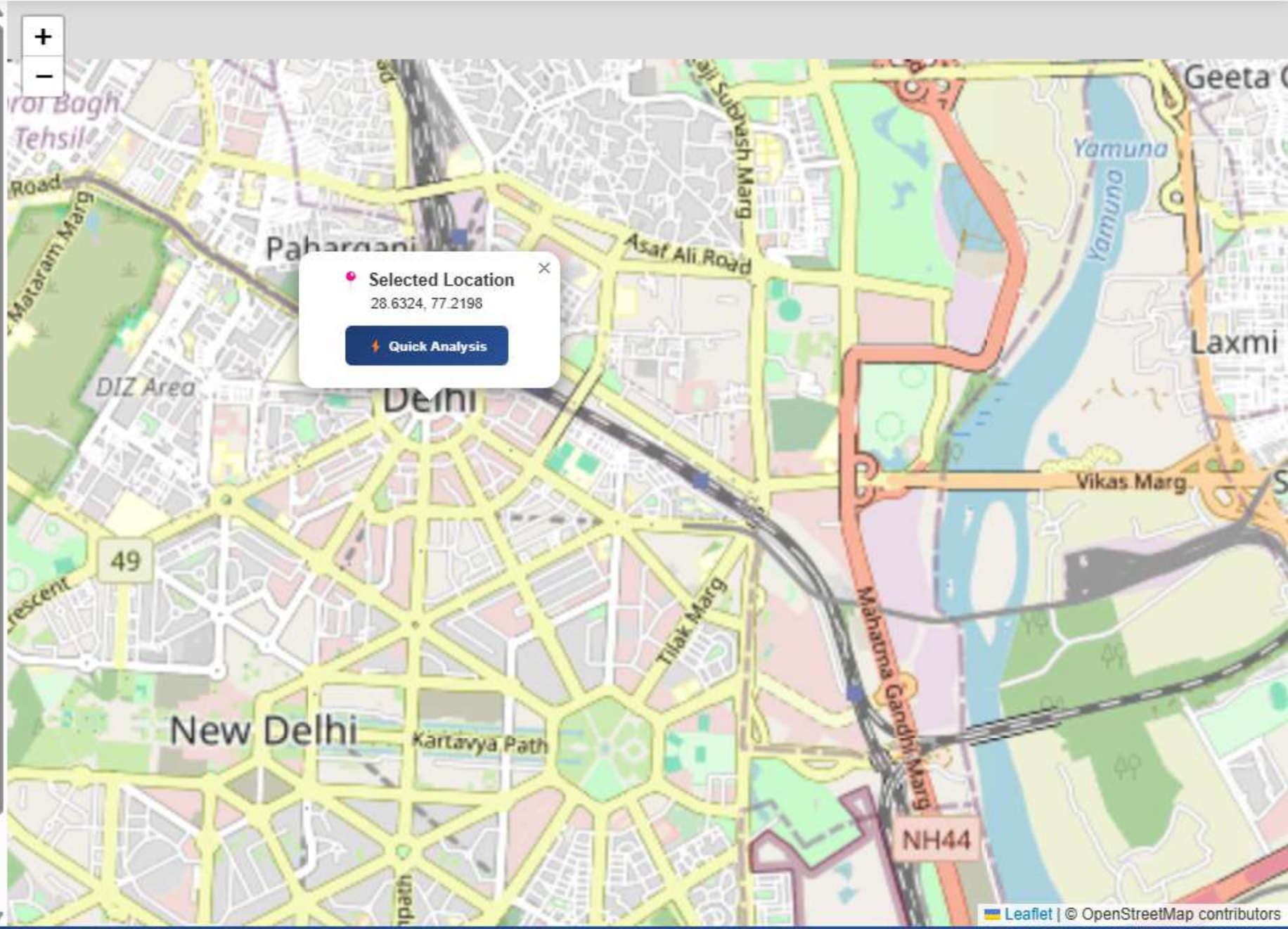
Delhi

Location Details

Solar Resource | Climate Zone

1750 kWh/m²/year | Subtropical

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

System Configuration

System Size (kW)

10

Panel Technology

Monocrystalline (20% eff.)

Installation Type

Rooftop

Orientation

Tilt Angle (degrees)

22

Optimal: 24°

Azimuth (degrees)

180

180° = South facing

Auto Optimize

Financial Parameters

Currency

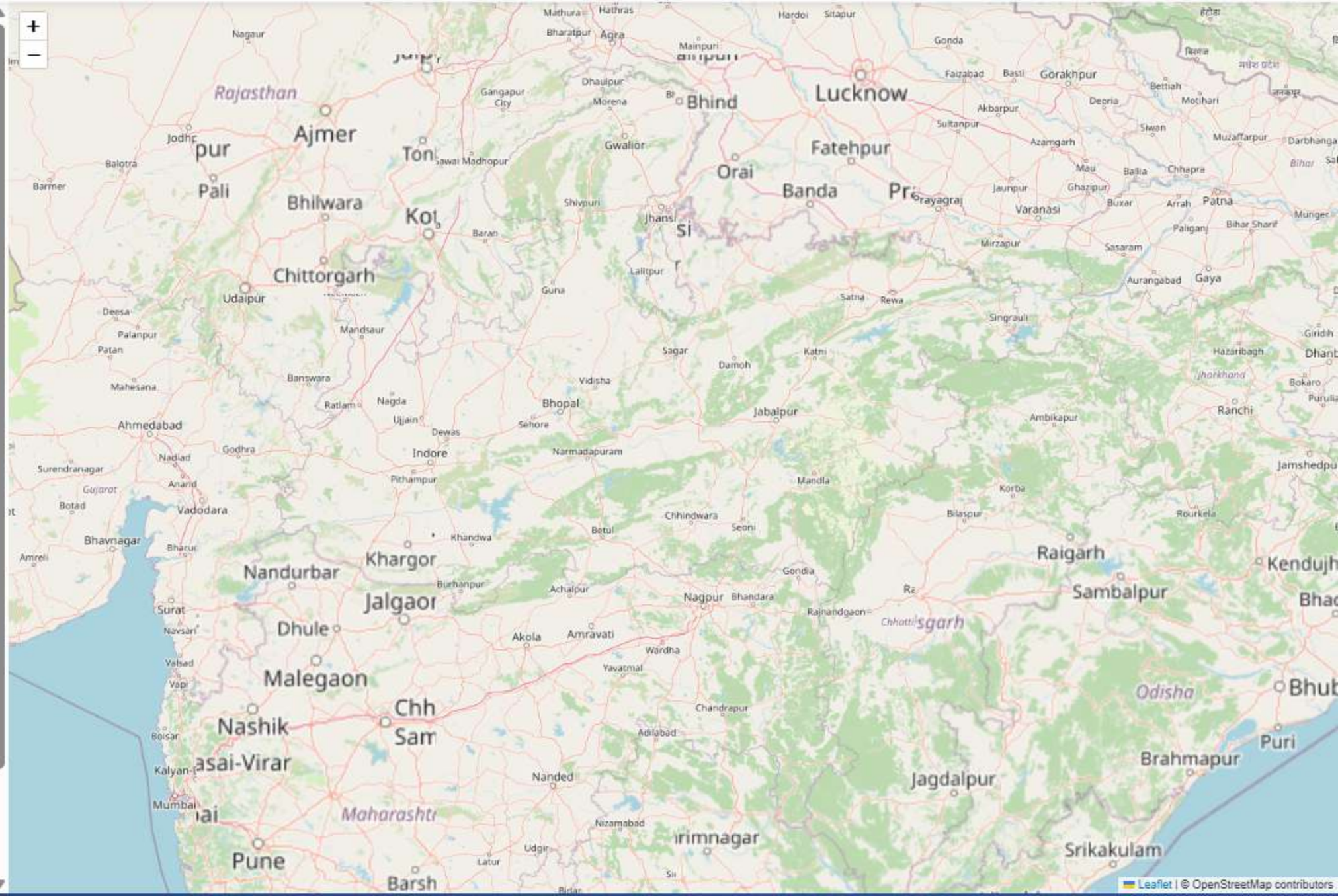
₹ Indian Rupee

System Cost per kW

65000

Including installation

System Log



Solar Analysis Platform

System Ready

System Size (kW)

10

Panel Technology

Monocrystalline (20% eff.)

Installation Type

Rooftop

Orientation

Tilt Angle (degrees)

22

Optimal: 24°

Azimuth (degrees)

180

180° = South facing

Auto Optimize

Financial Parameters

Currency

₹ Indian Rupee

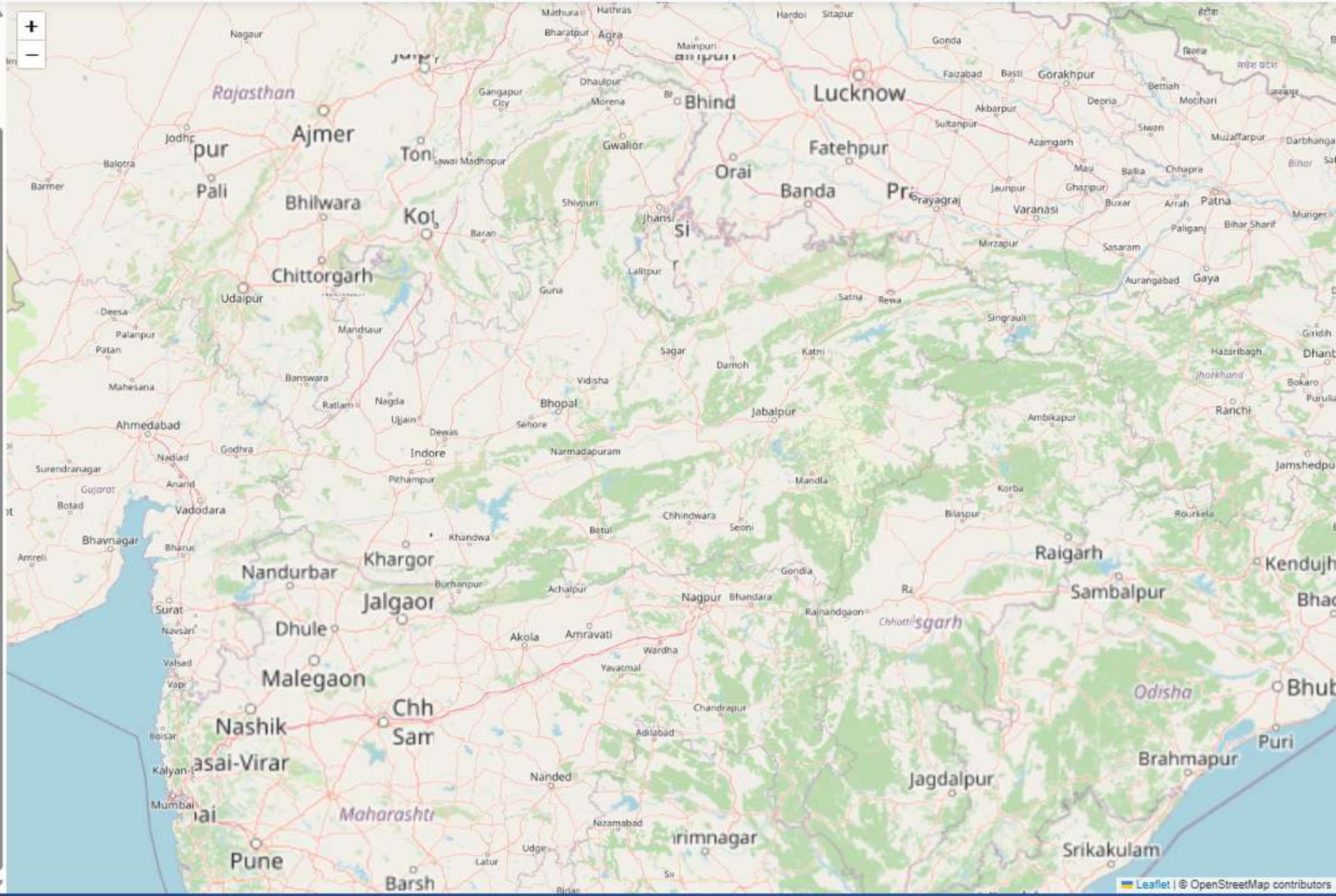
- ₹ Indian Rupee
- $ US Dollar
- € Euro

Electricity Rate per kWh

7.5

Run Complete Analysis

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

System Configuration

System Size (kW)

10

Panel Technology

Monocrystalline (20% eff.)

Installation Type

Rooftop

- Rooftop
- Ground Mount
- Floating Solar

Tilt Angle (degrees)

22

Optimal: 24°

Azimuth (degrees)

180

180° = South facing

Auto Optimize

Financial Parameters

Currency

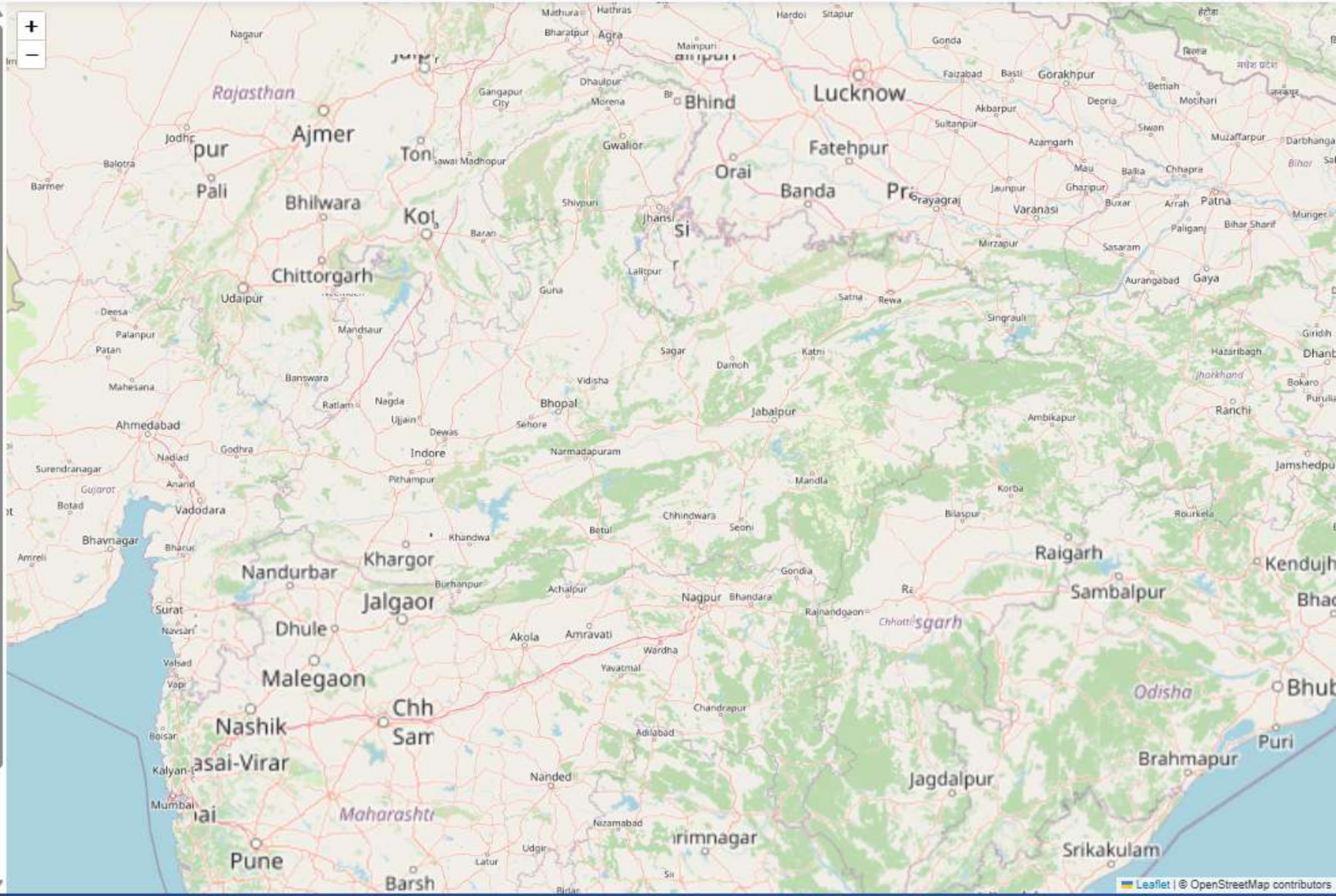
₹ Indian Rupee

System Cost per kW

65000

Including installation

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

Coordinates

19.0760 | 72.8777

Analyze This Location

Use My Location

IN India Quick Select

Major Cities

Select City

Location Details

Solar Resource	Climate Zone
1850 kWh/m²/year	Tropical

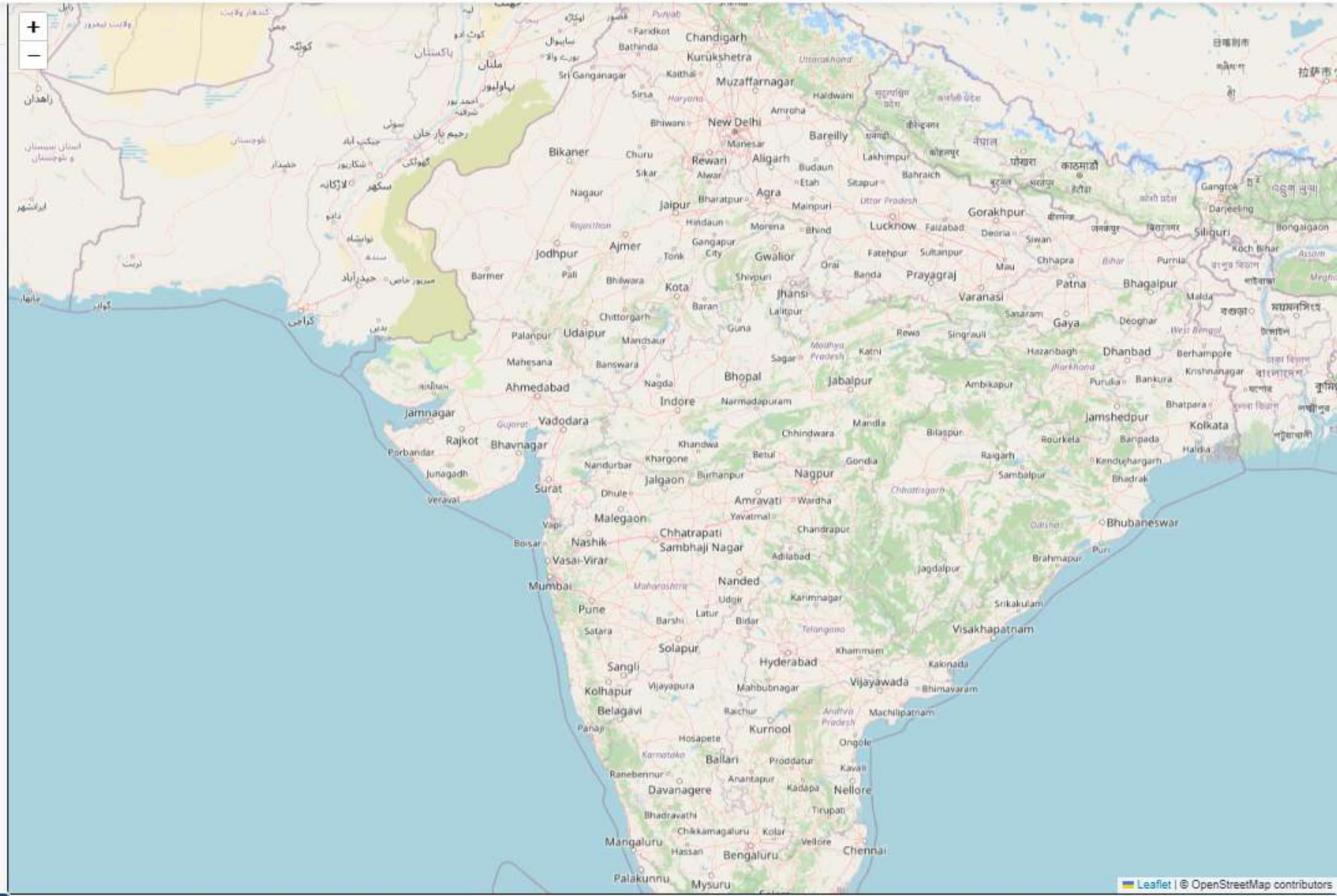
System Log

[12:42:08 AM] Initializing Solar Analysis Platform...

[12:42:08 AM] Map initialized

[12:42:08 AM] Charts initialized

[12:42:08 AM] Platform initialized successfully



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

- Global View
- Asia
- Africa
- Europe
- Americas
- Oceania

IN India Quick Select

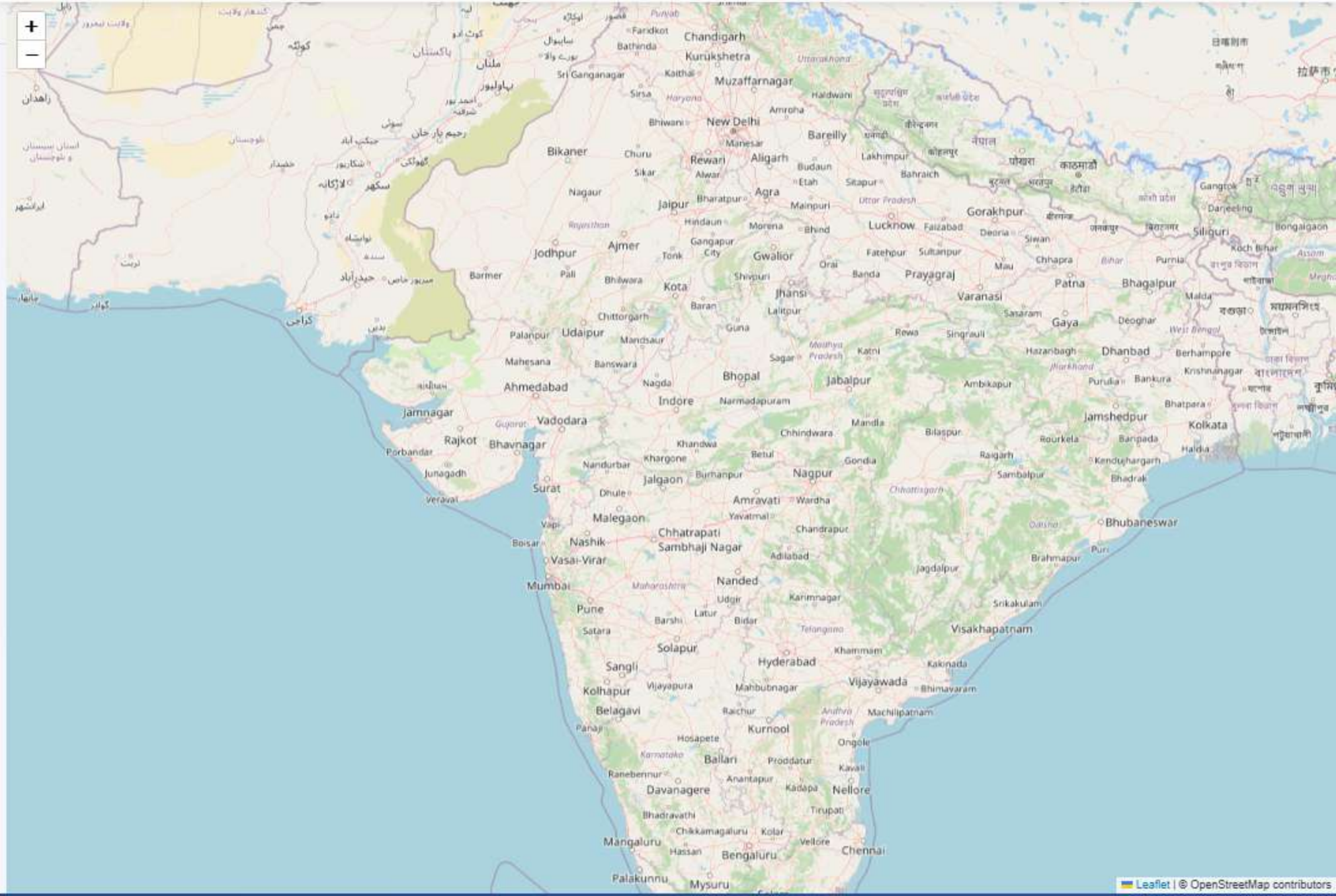
Major Cities

Select City

Location Details

Solar Resource	Climate Zone
1850 kWh/m²/year	Tropical

System Log +



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

Coordinates

19.0760 | 72.8777

Analyze This Location

Use My Location

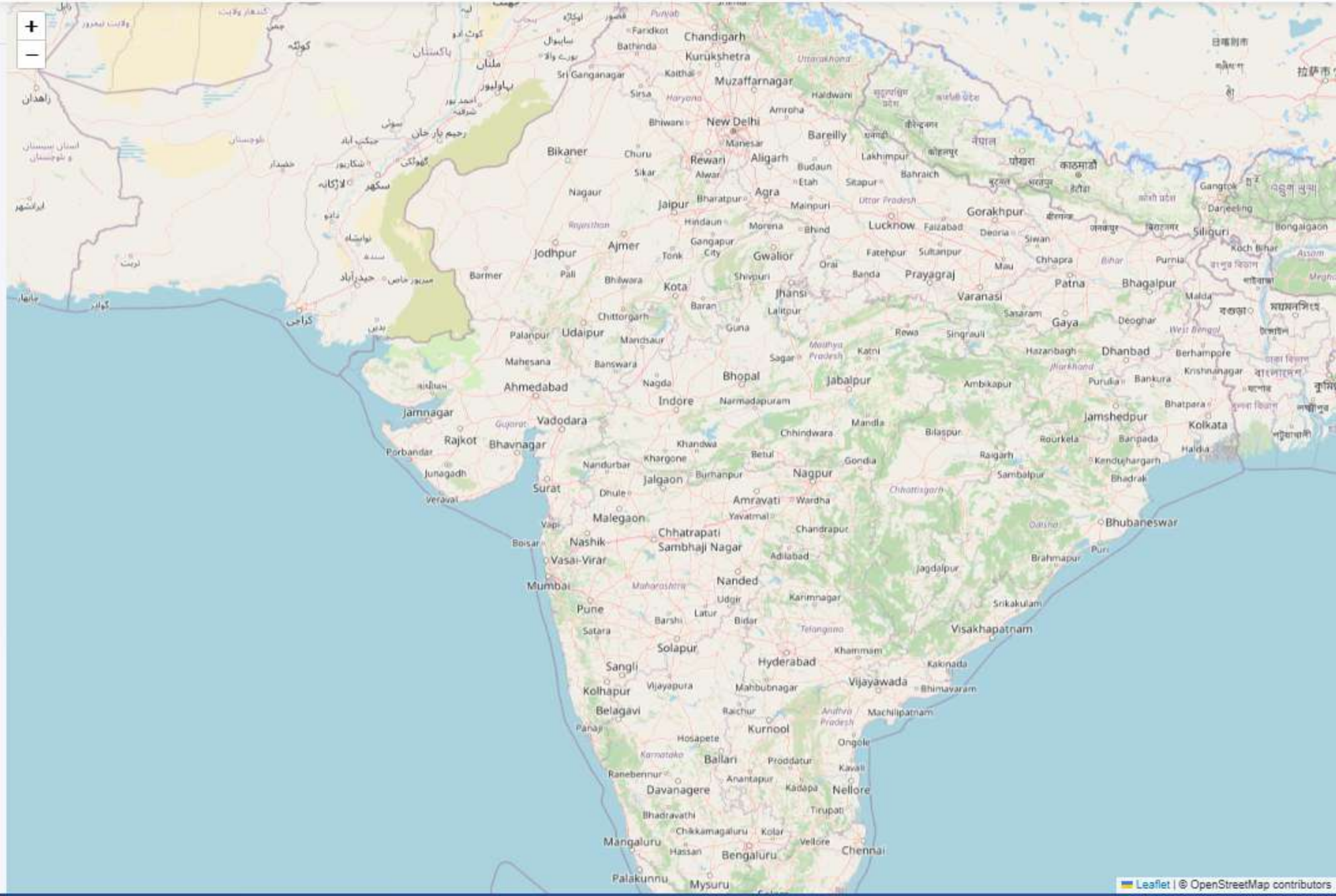
IN India Quick Select

Major Cities

Select City

- Select City
- Delhi
- Mumbai
- Bangalore
- Chennai
- Kolkata
- Ahmedabad
- Jaipur
- Hyderabad

System Log +



Solar Analysis Platform

System Ready

Location | Analysis | Results

Location Selection

Continent

Global View

Coordinates

28.6139 | 77.2090

Analyze This Location

Use My Location

IN India Quick Select

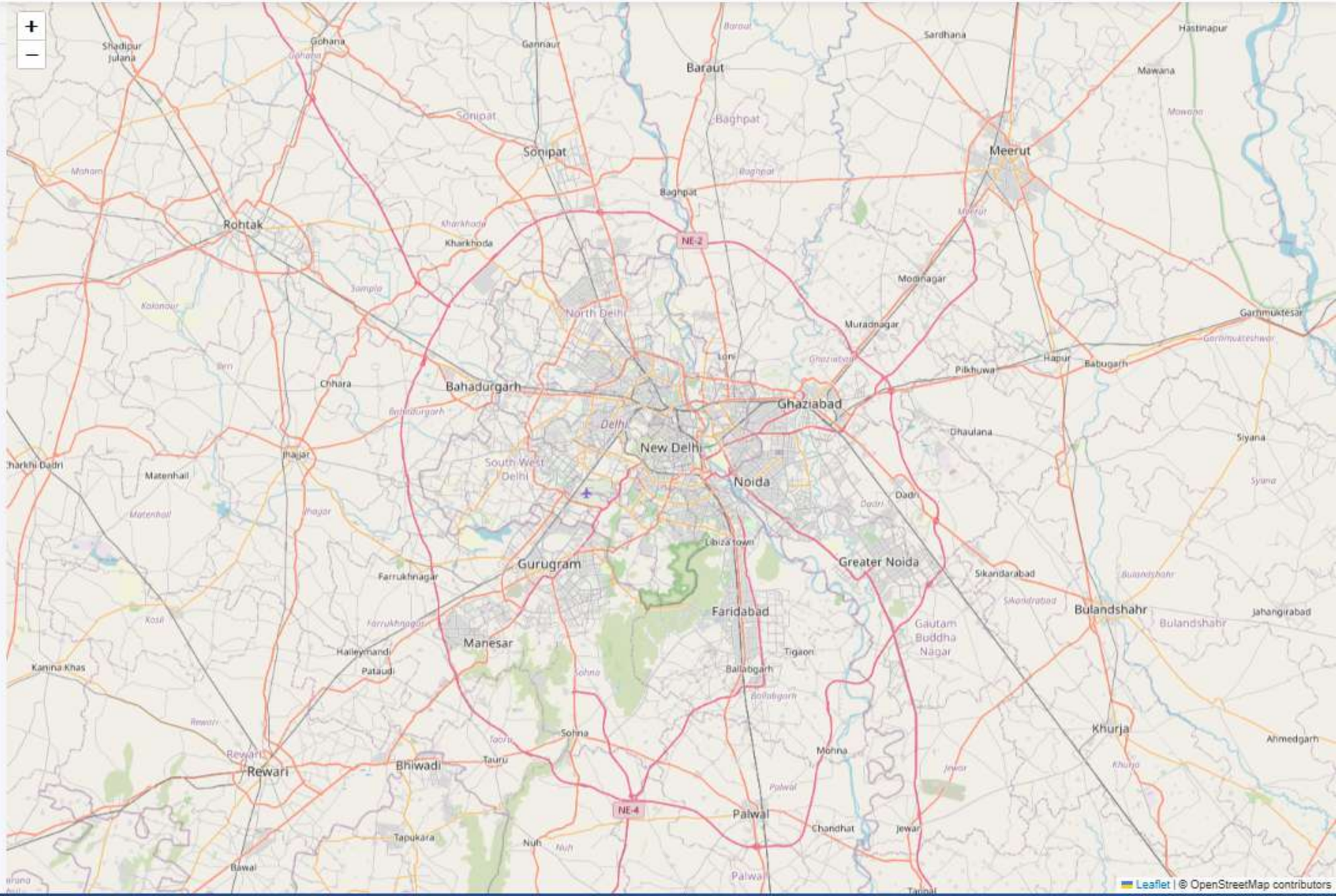
Major Cities

Delhi

Location Details

Solar Resource	Climate Zone
1750 kWh/m²/year	Subtropical

System Log +



Solar Analysis Platform

System Ready

Location | Analysis | Results

System Configuration

System Size (kW)

10

Panel Technology

Monocrystalline (20% eff.)

- Monocrystalline (20% eff.)
- Polycrystalline (17% eff.)
- Bifacial (22% eff.)
- PERC (21% eff.)

Orientation

Tilt Angle (degrees)

29

Optimal: 29°

Azimuth (degrees)

180

180° = South facing

Auto Optimize

Financial Parameters

Currency

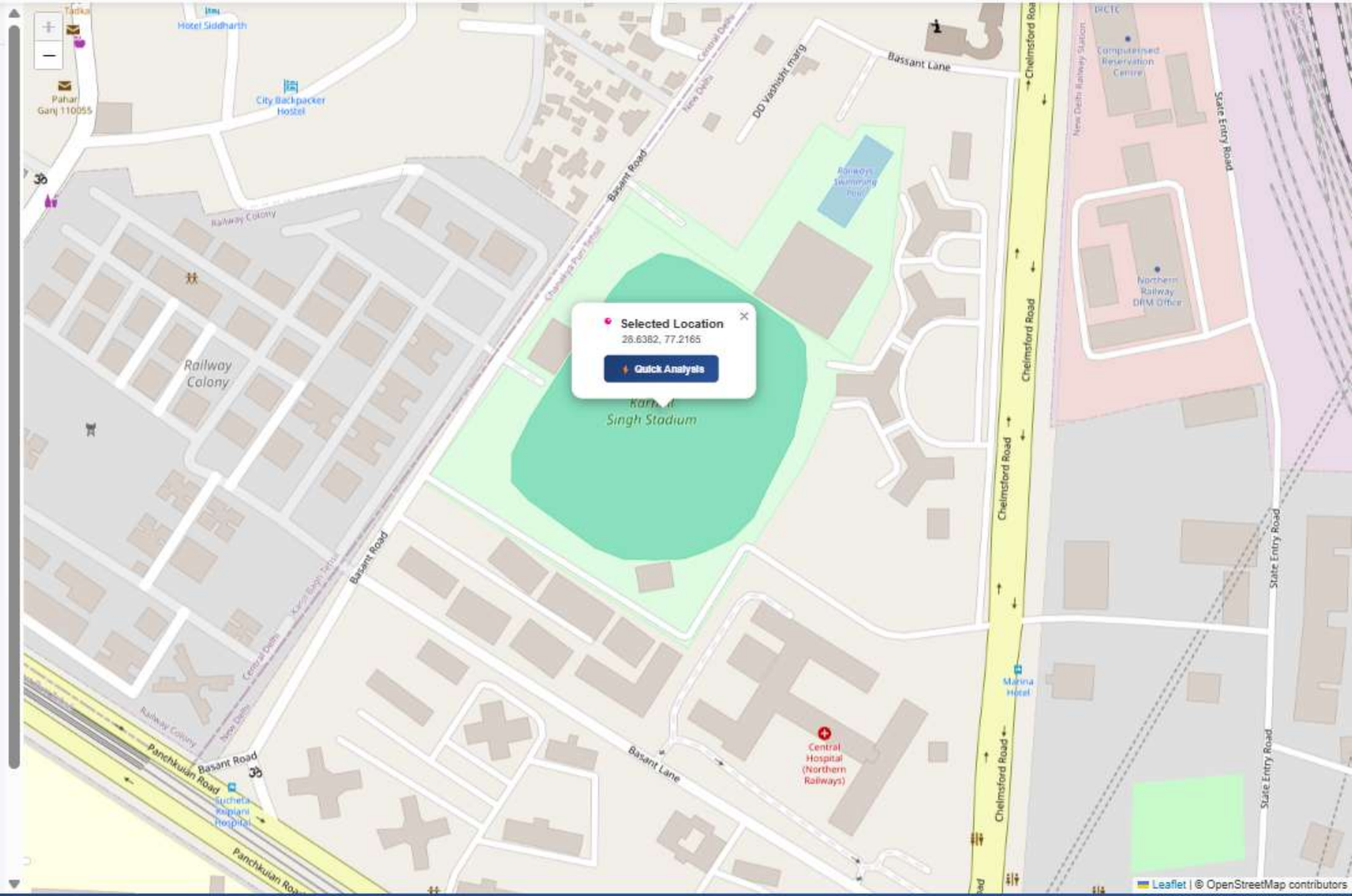
₹ Indian Rupee

System Cost per kW

65000

Including installation

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

System Configuration

System Size (kW)

10

Panel Technology

Monocrystalline (20% eff.)

Installation Type

Rooftop

- Rooftop
- Ground Mount
- Floating Solar

Tilt Angle (degrees)

29

Optimal: 29°

Azimuth (degrees)

180

180° = South facing

Auto Optimize

Financial Parameters

Currency

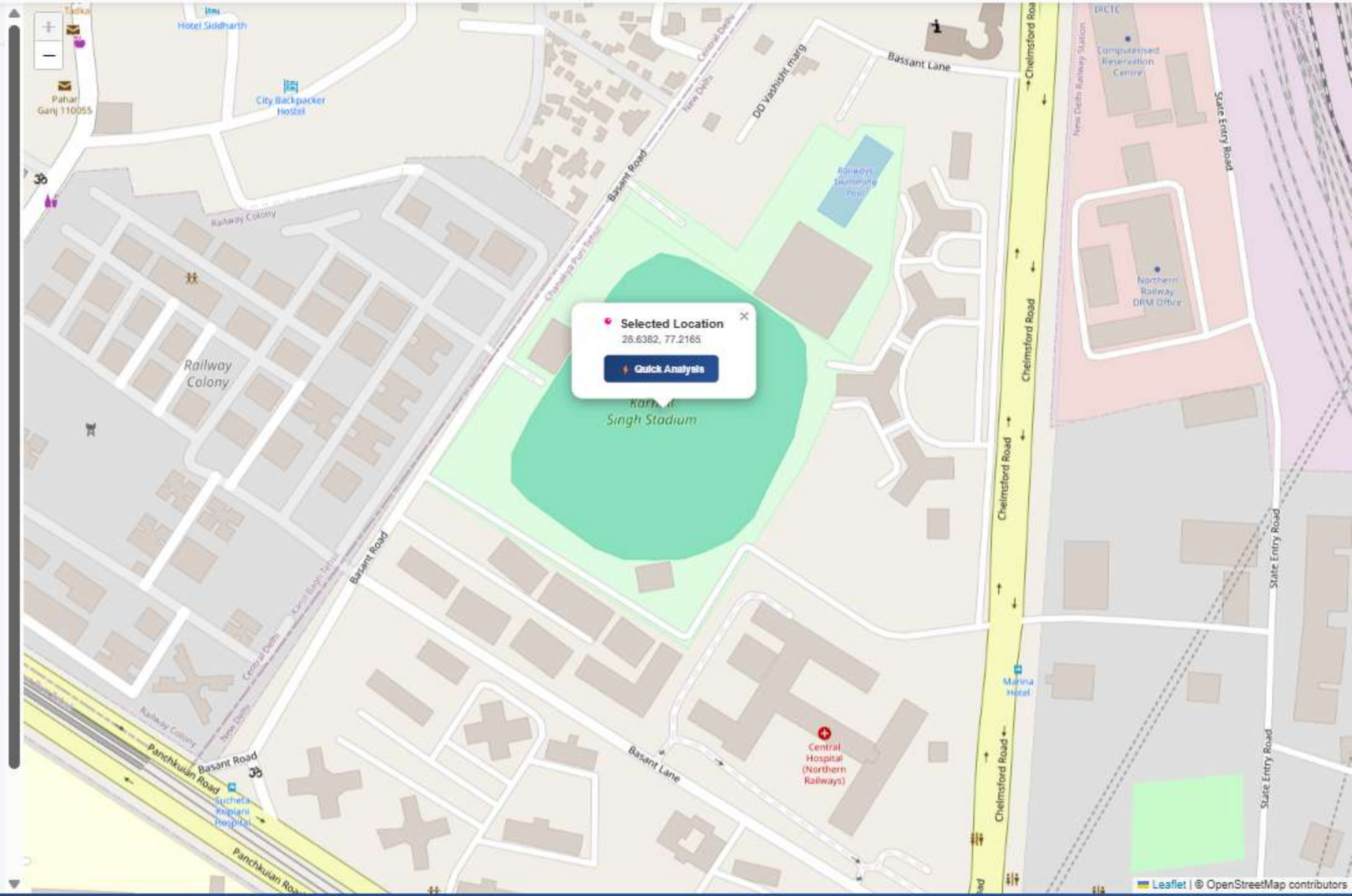
₹ Indian Rupee

System Cost per kW

65000

Including installation

System Log



Solar Analysis Platform

System Ready

System Size (kW)

10

Panel Technology

Monocrystalline (20% eff.)

Installation Type

Rooftop

Orientation

Tilt Angle (degrees)

29

Optimal: 29°

Azimuth (degrees)

180

180° = South facing

Auto Optimize

Financial Parameters

Currency

₹ Indian Rupee

₹ Indian Rupee

$ US Dollar

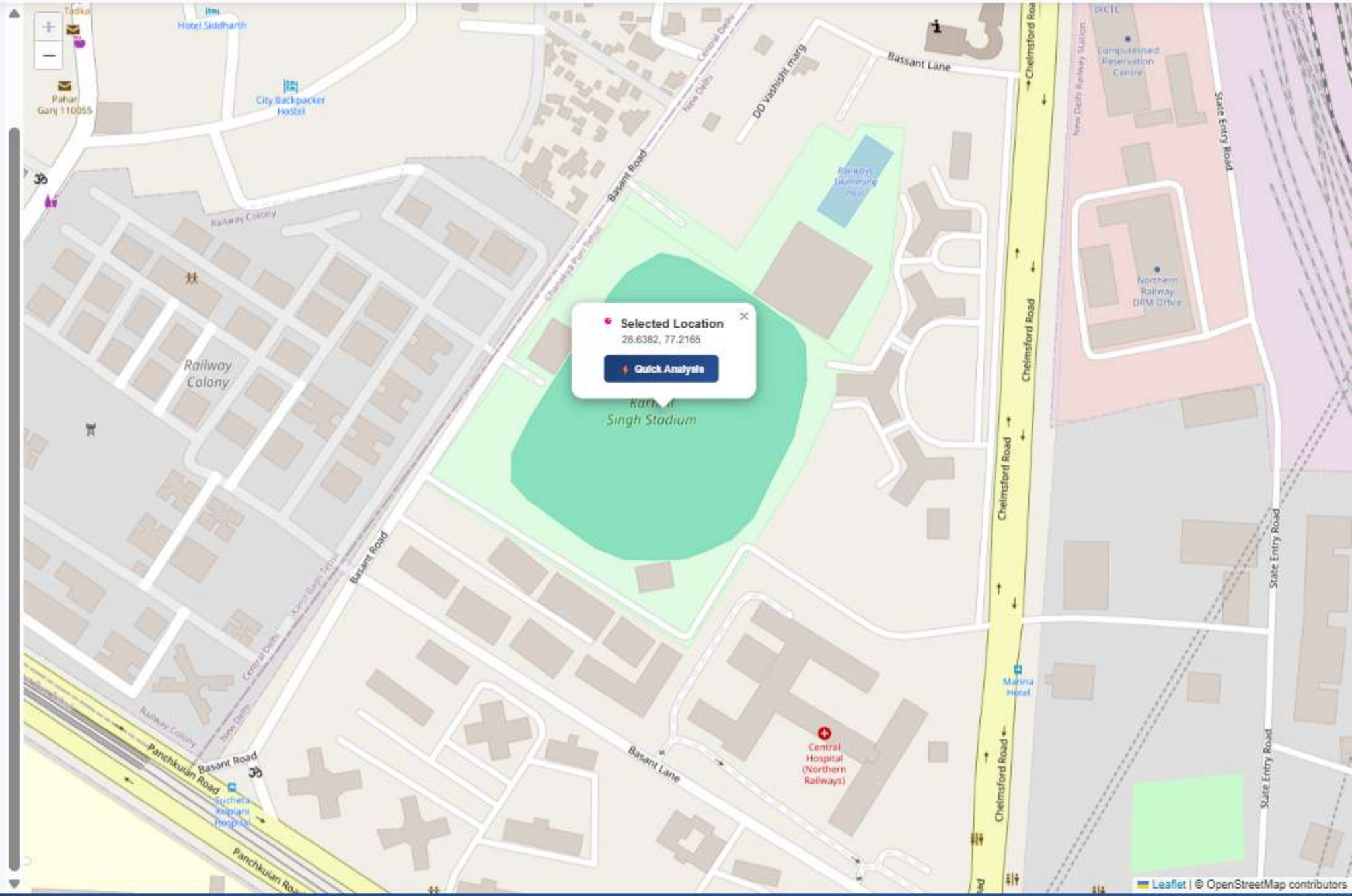
€ Euro

Electricity Rate per kWh

7.5

Run Complete Analysis

System Log



Solar Analysis Platform

System Ready

Location | Analysis | Results

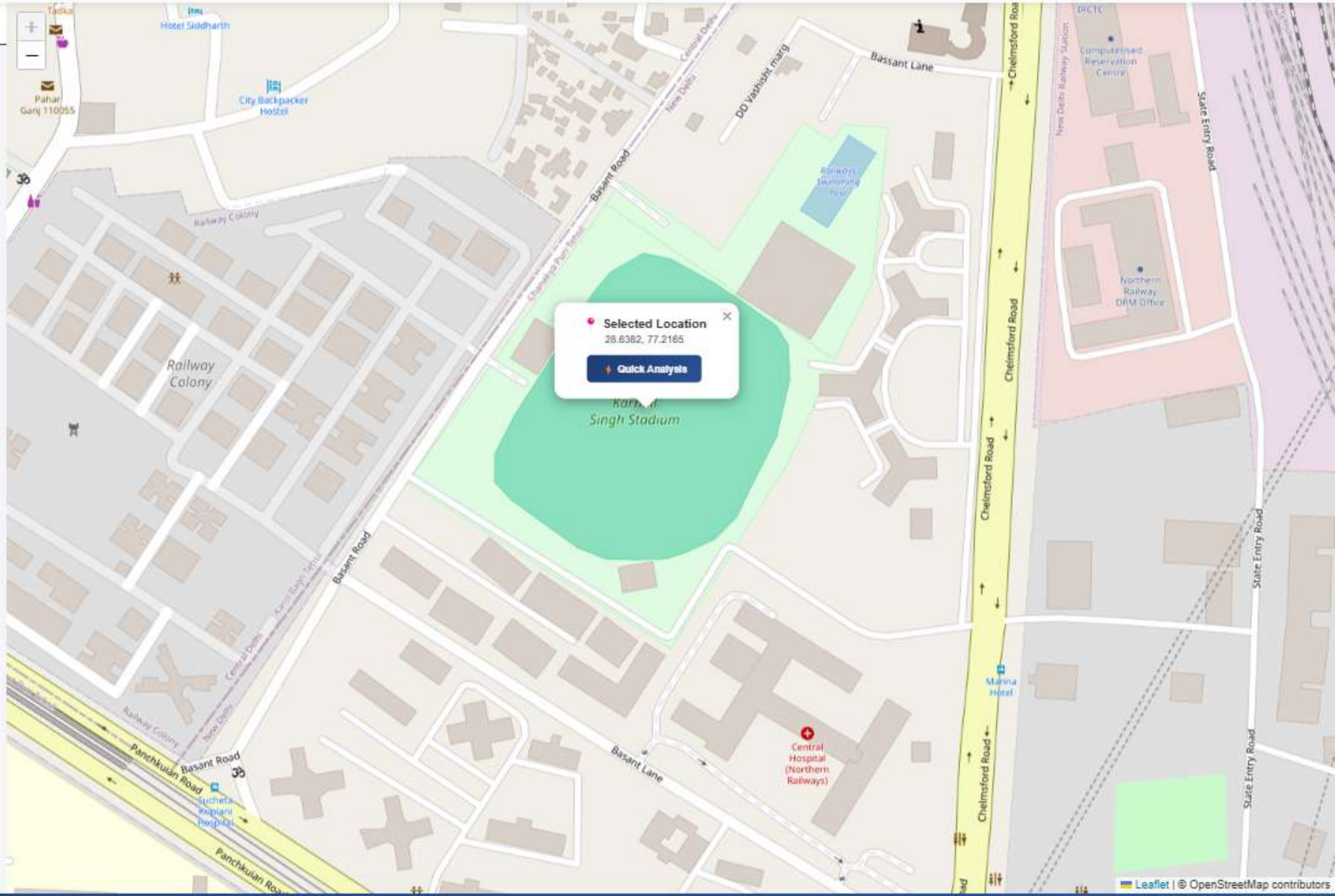
Analysis Results

Annual Generation **2,679 kWh**	Capacity Factor **3.1%**
Annual Savings **₹20,093**	Payback Period **32.4 years**
CO_2 Avoided **2,197 kg/year**	LCOE **₹15.53/kWh**

Export Results

Generate Report

System Log +



Solar Energy Analysis Report

Generated on 10/2/2025

Project Location

Coordinates: 28.6382°, 77.2165°

Solar Resource: 1750 kWh/m²/year

Climate Zone: Subtropical

System Configuration

System Size: 10 kW

Panel Type: mono

Installation: rooftop

Orientation: 29° tilt, 180° azimuth

Performance Results

Annual Generation: 2,679 kWh

Capacity Factor: 3.1%

Specific Yield: 268 kWh/kW

System Efficiency: 15%

Financial Analysis

Annual Savings: ₹20,093

Payback Period: 32.4 years

LCOE: ₹15.53/kWh

System Cost: ₹650,000

Environmental Impact

CO_2 Avoided: 2,197 kg/year

25-Year CO_2 Reduction: 54,925 kg

Report generated by Solar Analysis Platform

Analysis based on location-specific solar resource data and industry-standard calculations

Solar Analysis Platform

System Ready

Location | Analysis | Results

Analysis Results

Annual Generation **2,679 kWh**	Capacity Factor **3.1%**
Annual Savings **₹20,093**	Payback Period **32.4 years**
CO_2 Avoided **2,197 kg/year**	LCOE **₹15.53/kWh**

Export Results

Generate Report

System Log +