



# INDIRA GANDHI NATIONAL CENTRE FOR THE ARTS

Janpath, New Delhi -110 001, [www.ignca.gov.in](http://www.ignca.gov.in)

## Documentation format for Archaeological / Heritage Sites / Monuments

Serial No.: RJ/JPR-391

### SECTION I : IDENTIFICATION

#### 1. Name

Present : Samrat Yantra  
 Past :  
 Other Name (if any): : Big Sun Dial

#### 2. Location

LONGITUDE 75° 48' E

LATITUDE 26° 55' N

#### Address

: **Village (village code)** Jantar Mantar, City Palace  
**Post** : Jaipur **District**: Jaipur  
**State** : Rajasthan **PIN**: 302002

**Approach** : The Instrument is situated inside the Jantar Mantar Complex, outside the gateway of City Palace

#### 3. Property Type

##### *Buildings*

- Palace
- Fort
- Citadel
- Govt. building
- Railway station
- Defence building
- Industrial building
- Other public buildings
- Residential building

##### *Religious structures*

- Temple
- Mosque
- Minar
- Church
- Monastery
- Stupa
- Tomb, Mausoleum

##### *Other Structures*

- Wall
- Gateway
- Pillar
- Others (specify)

##### *Engineering structure*

- Bridge
- Tunnel
- Other engineering structure

##### *Open space and related structures*

- Public square
- Park or garden
- Graveyard
- Baolis, Well
- Tank
- Cave

**Note:** It is the largest Masonic structure made within the complex of the coveted Jantar Mantar. It is used to calculate time in day time. The large device has three major parts. In the centre there is a lofty structure with staircase. On both sides of this structure, there are two hemispherical devices.

#### 4. Property Use

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**ABANDONED / IN USE :** In use

**Present** : Tourist site  
**Past** : Shows the solar time (local time)

#### 5. Age (Source)

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**PERIOD** : 18<sup>th</sup> Century A.D. Built by Astronomer King Maharaja Sawai Jai Singh – II (in 1728)  
**YEARS** :  
**Precise date of Construction Completion** : 1728 A.D.  
**Subsequent changes** : Restoration work done in 1901  
**Destruction / Demolition** :

#### 6. Ownership / Level of Protection

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**SINGLE /MULTIPLE :**

**Public** : Archaeological Survey of India / State Archaeology Department / Any Other (Please specify) : Govt. of Rajasthan  
**Private** :  
**Any other (Please specify)** :  
**Name** :  
**Address** :  
**Phone** :

#### 7. Association

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- **WITH EVENTS**
  - In History** :
  - In Rituals** :
  - In Building Construction** :
  - Any other (specify)** :
- **WITH PERSONS**
  - Patron** : Maharaja Sawai Jai Singh – II
  - Architect / Engineer** : Pt. Jagan Nath Samrat and Pt. Kewal Ram Ji
  - Any other (specify)** :

#### 8. Statement of Significance

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- |                                     |                     |                        |
|-------------------------------------|---------------------|------------------------|
| <input checked="" type="checkbox"/> | Architectural       | Astrological structure |
| <input type="checkbox"/>            | Archaeological      |                        |
| <input type="checkbox"/>            | Historical          |                        |
| <input type="checkbox"/>            | Religious           |                        |
| <input type="checkbox"/>            | Any other (specify) |                        |

## SECTION II: DESCRIPTION

### 9. Physical Description and Decorative Features

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- **Context**  
**Urban / Rural Setting**  
**Surroundings** : \* **Drawings** (Attach extra sheet if necessary)  
Urban  
  
**Stand in Isolation**  
**Integral part of a Landscape / Street / Complex**  
Integral part of a landscape
- **Quantification**  
Area Dimension ( L x B x H) : (m / cm/ feet / inch)  
  
Number of Blocks : 01  
Number of Storys : 01
- **Spatial Organization**  
Orientation : East-West, facing East  
Plan :  
Allocation of Spaces :

### ARCHITECTURAL STYLE

- **Ornamentation**  
Exteriors : Lofty staircase in the centre with hemispherical structures on both sides  
  
Interiors :  
Movable Collections :  
**Any Other** (specify) : Used for calculating time

### 10. Construction Technology

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- Structural System** : Based on brass instruments for Astrological studies
- Building Techniques** : Arcuated system
- Material of Construction** : Bricks, stone and plaster

### 11. Condition Assessment

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**In General**                      **Good / Fair**

- Sign of Deterioration
- Serious Deterioration
- Danger of Disappearance

**In Brief (Attach extra sheet if necessary):**

Well preserved

## 12. Threats to the Property

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- |                                     |                 |
|-------------------------------------|-----------------|
| <input checked="" type="checkbox"/> | Natural         |
| <input type="checkbox"/>            | Negligence      |
| <input type="checkbox"/>            | Vandalism       |
| <input type="checkbox"/>            | Urban Pressures |

### **SECTION III: REFERENCES**

#### **13. Reference Sources** (published and unpublished textual details)

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#### **14. Photographs**

(attach list as in page 6, in case of multiple photographs)

**Photo Reference**

**CAPTION**

#### **15. Audio / Video**

(related to rituals / performance / festivals etc.)

**Reference**

**DESCRIPTION**

#### **16. Maps/Plans/Drawings**

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#### **17. Listers**

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**NAME**

**NAME**

#### **18. Reviewers**

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**NAME**

**NAME**

**COMMENTS**

**COMMENTS**