



# 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-395

### SECTION I : IDENTIFICATION

#### 1. Name

**Present** : Krantivritta Yantra  
**Past** :  
**Other Name (if any):** : Ecliptic Instrument

#### 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 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 made of Circular stone with an iron gnomon at its centre that is used for measuring longitude and latitude of the celestial bodies. It can be used in day time as well as night time.

#### 4. Property Use

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**ABANDONED / IN USE :** In use

**Present** : Tourist site  
**Past** : Instrument for astronomical studies

#### 5. Age (Source)

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

#### 6. Ownership / Level of Protection

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**SINGLE /MULTIPLE :**

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

#### 7. Association

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- **WITH EVENTS**
  - In History** : Based on the concept of time and space in Indian  
Astrology
  - 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       | Astronomical observatory |
| <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** : \* **Drawings** (Attach extra sheet if necessary)  
**Urban / Rural Setting** : Urban  
**Surroundings** : **Stand in Isolation**  
**Integral part of a Landscape / Street / Complex**  
Integral part of 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 : Circular Yantra with Iron gnomon in the centre.  
Interiors :  
Movable Collections :  
**Any Other** (specify) : Astronomical study, position of zodiac and calculation of appropriate longitude and latitude

### 10. Construction Technology

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- Structural System** : Based on brass instruments made to calculate longitude and latitude.
- Building Techniques** : English-Bond Method
- Material of Construction** : 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**