

1. World Heritage Property Data

1.1 - Name of World Heritage Property

The Jantar Mantar, Jaipur

1.2 - World Heritage Property Details

State(s) Party(ies)

• India

Type of Property

cultural

Identification Number

1338


Year of inscription on the World Heritage List

2010

1.3 - Geographic Information Table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
The Jantar Mantar, Jaipur	26.925 / 75.825	1.865	14.666	16.531	2010
Total (ha)		1.865	14.666	16.531	

1.4 - Map(s)

Title	Date	Link to source
Map of inscribed property	28/01/2009	

1.5 - Governmental Institution Responsible for the Property

Comment

Department of Archaeology and Museums, Government of Rajasthan, India

1.6 - Property Manager / Coordinator, Local Institution / Agency

Comment

Department of Archaeology and Museums, Government of Rajasthan, India

1.7 - Web Address of the Property (if existing)

Comment

<http://museumsrajasthan.gov.in/>

1.8 - Other designations / Conventions under which the property is protected (if applicable)

Comment

Jantar Mantar, Jaipur is protected under the Rajasthan Monuments, Archaeological Sites and Antiquities Act (1961)

2. Statement of Outstanding Universal Value

2.1 - Statement of Outstanding Universal Value / Statement of Significance

Statement of Outstanding Universal Value

Brief synthesis

The Jantar Mantar, Jaipur, is an astronomical observation site built in the early 18th century. It includes a set of some twenty main fixed instruments. They are monumental examples in masonry of known instruments but which in many cases have

specific characteristics of their own. The Jantar Mantar is an expression of the astronomical skills and cosmological concepts of the court of a scholarly prince at the end of the Mughal period.

The Jantar Mantar observatory in Jaipur constitutes the most significant and best preserved set of fixed monumental instruments built in India in the first half of the 18th century; some of them are the largest ever built in their categories. Designed for the observation of astronomical positions with the naked eye, they embody several architectural and instrumental innovations. The observatory forms part of a tradition of Ptolemaic positional astronomy which was shared by many civilizations. It contributed by this type of observation to the completion of the astronomical tables of Zij. It is a late and ultimate monumental culmination of this tradition. Through the impetus of its creator, the prince Jai Singh II, the observatory was a meeting point for different scientific cultures, and gave rise to widespread social practices linked to cosmology. It was also a symbol of royal authority, through its urban dimensions, its control of time, and its rational and astrological forecasting capacities. The observatory is the monumental embodiment of the coming together of needs which were at the same time political, scientific, and religious.

Criterion (iii): The Jantar Mantar in Jaipur is an outstanding example of the coming together of observation of the universe, society and beliefs. It provides an outstanding testimony of the ultimate culmination of the scientific and technical conceptions of the great observatory devised in the Medieval world. It bears witness to very ancient cosmological, astronomical and scientific traditions shared by a major set of Western, Middle Eastern, Asian and African religions, over a period of more than fifteen centuries.

Criterion (iv): The Jantar Mantar in Jaipur is an outstanding example of a very comprehensive set of astronomical instruments, in the heart of a royal capital at the end of the Mughal period in India. Several instruments are impressive in their dimensions, and some are the largest ever built in their category.

Integrity and authenticity

The observatory of Jantar Mantar in Jaipur has been affected by its outdoor situation in a tropical area, and then by its temporary abandonment in the 19th century, which has resulted in frequent maintenance interventions and then various restorations over a period of more than a century. Nevertheless, the general integrity of the site has been essentially maintained and partially restored.

On the other hand, establishing the authenticity of each individual instrument is more complex, as a result of the many interventions which have taken place. While authenticity is generally unquestionable with regard to the astronomical function, it is more difficult to establish with regard to plasters, instrument graduations, some architectural interpretations and the immediate landscape environment of elements of the property.

Protection and management measures

The Jantar Mantar is protected under the Rajasthan Monuments Archaeological Site and Antiquities Act, 1961, under Sections 3 and 4. It was designated a monument of national importance in 1968.

The main challenges for the property, which could potentially represent a threat, are controlling the development of tourism, and allowing for urban development in the immediate vicinity of the Jantar Mantar. Major projects to upgrade the district and modify traffic have been announced, and these may affect the buffer zone, and more generally the landscape and cultural environment of the property. It is in particular necessary to specify the measures taken to protect the buffer zone, and to include these measures in the upcoming Master Plan of the municipality of Jaipur. The system for the management of the property is appropriate, provided that it includes a genuinely

overarching management body and provided that the Management Plan is promulgated. Furthermore, it is necessary to strengthen the scientific expertise of the bodies in charge of managing the property.

2.2 - The criteria (2005 revised version) under which the property was inscribed

(iii)(iv)

2.3 - Attributes expressing the Outstanding Universal Value per criterion

Criterion (iii): The Jantar Mantar in Jaipur is an outstanding example of the coming together of observation of the universe, society and beliefs. It provides an outstanding testimony of the ultimate culmination of the scientific and technical conceptions of the great observatory devised in the Medieval world. It bears witness to very ancient cosmological, astronomical and scientific traditions shared by a major set of Western, Middle Eastern, Asian and African religions, over a period of more than fifteen centuries. Criterion (iv): The Jantar Mantar in Jaipur is an outstanding example of a very comprehensive set of astronomical instruments, in the heart of a royal capital at the end of the Mughal period in India. Several instruments are impressive in their dimensions, and some are the largest ever built in their category.

2.4 - If needed, please provide details of why the Statement of Outstanding Universal Value should be revised

Not needed to be revised.

2.5 - Comments, conclusions and / or recommendations related to Statement of Outstanding Universal Value

No comments.

3. Factors Affecting the Property

3.14. Other factor(s)

3.14.1 - Other factor(s)

No additional factors.

3.15. Factors Summary Table

3.15.1 - Factors summary table

Name	Impact				Origin
3.1	Buildings and Development				
3.1.1 Housing					
3.1.2 Commercial development					
3.1.4 Major visitor accommodation and associated infrastructure					
3.2	Transportation Infrastructure				
3.2.1 Ground transport infrastructure					
3.2.2 Air transport infrastructure					
3.2.4 Effects arising from use of transportation infrastructure					
3.3	Services Infrastructures				
3.3.2 Renewable energy facilities					
3.3.4 Localised utilities					
3.4	Pollution				
3.4.5 Solid waste					
3.7	Local conditions affecting physical fabric				
3.7.3 Temperature					
3.7.7 Pests					
3.8	Social/cultural uses of heritage				
3.8.1 Ritual / spiritual / religious and associative uses					
3.8.2 Society's valuing of heritage					
3.8.4 Changes in traditional ways of life and knowledge system					
3.8.5 Identity, social cohesion, changes in local population and community					
3.8.6 Impacts of tourism / visitor / recreation					
3.9	Other human activities				
3.9.5 Terrorism					
3.13	Management and institutional factors				
3.13.1 Low impact research / monitoring activities					
3.13.3 Management activities					
Legend					
	Current	Potential	Negative	Positive	Inside
					Outside

3.16. Assessment of current negative factors

3.16.1 - Assessment of current negative factors

	Spatial scale	Temporal scale	Impact	Management response	Trend
3.4	Pollution				
3.4.5	Solid waste	localised	frequent	insignificant	medium capacity
3.8	Social/cultural uses of heritage				
3.8.6	Impacts of tourism / visitor / recreation	extensive	frequent	insignificant	high capacity
					increasing

3.17. Comments, conclusions and / or recommendations related to factors affecting the property

3.17.1 - Comments

The aspect of solid waste in the buffer zone is being managed by the Jaipur Municipal Corporation and will be regularly monitored through the Management Authority for Jantar Mantar. Increasing tourism in and around the World Heritage Site will be controlled through the Visitor Management Plan which is currently being prepared. Its first phase will be implemented by March 2012

4. Protection, Management and Monitoring of the Property

4.1. Boundaries and Buffer Zones

4.1.1 - Buffer zone status

There is a buffer zone

4.1.2 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The boundaries of the World Heritage property are **adequate** to maintain the property's Outstanding Universal Value

4.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The buffer zones of the World Heritage property are **adequate** to maintain the property's Outstanding Universal Value

4.1.4 - Are the boundaries of the World Heritage property known?

The boundaries of the World Heritage property are known by both the management authority and local residents / communities / landowners.

4.1.5 - Are the buffer zones of the World Heritage property known?

The buffer zones of the World Heritage property are **known** by both the management authority and local residents / communities / landowners.

4.1.6 - Comments, conclusions and / or recommendations related to boundaries and buffer zones of the World Heritage property

The World Heritage Site boundaries for Jantar Mantar and its Buffer Zone are adequate and these are well known to the local community and the management authority.

4.2. Protective Measures

4.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and / or traditional)

The Jantar Mantar is protected under the Rajasthan Monuments Archaeological Site and Antiquities Act, 1961, under Sections 3 and 4. It was designated a monument of state level importance in 1968, and is thus protected by the Department of Archaeology and Museums.

This protection takes the form of administrative and scientific monitoring of the conservation of the property and the provision of financial and human resources carrying out works. The Rajasthan Monuments Act (1961) applies to the historic parts of the buffer zone. The landuse framework law of the municipal authority (1970) results in the application of a series of existing urban regulation texts:

- the municipal street plan,
- the joint conservation plan for the Jantar Mantar and the Hawa Mahal,
- the future management plan for the district, which provides for an upgrading of the eastern part of the buffer zone.
- the new Master Plan for Jaipur, which should be promulgated for the period 2010-2025.

Comment

The Jantar Mantar is protected under the Rajasthan Monuments Archaeological Site and Antiquities Act, 1961, under Sections 3 and 4. It was designated a monument of state level importance in 1968, and is thus protected by the Department of Archaeology and Museums. This protection takes the form of administrative and scientific monitoring of the conservation of the property and the provision of financial and human resources for carrying out works. The Rajasthan Monuments Act (1961) additionally applies to few historic monuments in the buffer zone such as the Hawa Mahal and the Town Hall Building. The Byelaws under the Municipalities Act (1970) of the Local Municipal Authority result in the application of a series of existing urban regulations for the remaining parts of the Buffer Zone including :

- the municipal street plan,
- the joint conservation plan for the Jantar Mantar and the Hawa Mahal,
- the future management plan for the district, which provides for an upgrading of the eastern part of the buffer zone.
- the new Master Plan for Jaipur, which should be promulgated for the period 2010-2025.

4.2.2 - Is the legal framework (i.e. legislation and / or regulation) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?

The legal framework for the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the World Heritage property provides an **adequate or better basis** for effective management and protection

4.2.3 - Is the legal framework (i.e. legislation and / or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?

The legal framework for the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the World Heritage property provides an **adequate or better basis** for effective management and protection

4.2.4 - Is the legal framework (i.e. legislation and / or regulation) adequate in the area surrounding the World Heritage property and buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?

The legal framework for the area surrounding the World Heritage property and the buffer zone provides an **adequate or better basis** for effective management and protection of the property, contributing to the maintenance of its Outstanding Universal Value including conditions of Authenticity and / or Integrity

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4.2.5 - Can the legislative framework (i.e. legislation and / or regulation) be enforced?

There is **excellent** capacity / resources to enforce legislation and / or regulation in the World Heritage property

4.2.6 - Comments, conclusions and / or recommendations related to protective measures

The protective measures for Jantar Mantar are well in place with excellent resources to enforce legislation in the property.

4.3. Management System / Management Plan

4.3.1 - Management System

The Department of Archaeology and Museums is the manager of the site. It is subject to the authority of the Department of Art, Literature and Culture of Rajasthan, which must approve its main decisions.

A management society registered under the Rajasthan Societies Registration Act 1958, the Rajasthan State Museum and Monuments Management & Development Society (RSMMDMS), has been set up within this Department. The RSMMDMS commissioned the Jantar Mantar management plan in 2005 and subsequently coordinated its implementation.


The Department subcontracts certain auxiliary functions by granting annual contracts to private companies for cleaning, gardening, the bookshop, the snack bar, and the security service.

A new Management Plan is currently being introduced for 2009-13

Comment

The Department of Archaeology and Museums is the manager of the site. It is subject to the authority of the Department of Art, Literature and Culture of Rajasthan, which must approve its main decisions. A management society registered under the Rajasthan Societies Registration Act 1958, the Rajasthan State Museum and Monuments Management & Development Society (RSMMDMS), has been set up within this Department. The RSMMDMS commissioned the Jantar Mantar conservation plan in 2005 and subsequently coordinated its implementation. The Department subcontracts certain auxiliary functions by granting annual contracts to private companies for cleaning, gardening, the bookshop, the snack bar, and the security service. A new Management Plan is introduced for 2009-13 and is currently under implementation through an overarching authority i.e. the Amber Development and Management Authority.

4.3.2 - Management Documents

Title	Status	Available	Date	Link to source
Management Plan 2009-2013 January 2009	N/A	Available	01/01/2009	

Comment

Management Plan 2009-2013 updated in July 2010 is the latest document in use that incorporates the revised buffer zone area and an overarching authority ie. Amber Development and Management Authority for its implementation. Secondary plans identified under this Management Plan such as Landscape and Environment Plan, Interpretation, Use and Visitor Management Plan and a Comprehensive Mobility Plan are under preparation. The implementation of secondary plans will start from September 2011 onwards

4.3.3 - How well do the various levels of administration (i.e. national / federal; regional / provincial / state; local / municipal etc.) coordinate in the management of the World Heritage Property ?

There is **excellent coordination** between all bodies / levels involved in the management of the property

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4.3.4 - Is the management system / plan adequate to maintain the property's Outstanding Universal Value ?

The management system / plan is **fully adequate** to maintain the property's Outstanding Universal Value

4.3.5 - Is the management system being implemented?

The management system is being **fully** implemented and monitored

4.3.6 - Is there an annual work / action plan and is it being implemented?

An annual work / action plan exists and **most or all activities** are being implemented and monitored

4.3.7 - Please rate the cooperation / relationship with World Heritage property managers / coordinators / staff of the following

Local communities / residents	Good
Local / Municipal authorities	Good
Indigenous peoples	Good
Landowners	Good
Visitors	Good
Researchers	Good
Tourism industry	Good
Industry	Good

4.3.8 - If present, do local communities resident in or near the World Heritage property and / or buffer zone have input in management decisions that maintain the Outstanding Universal Value?

Local communities have **some input** into discussions relating to management but no direct role in management

4.3.9 - If present, do indigenous peoples resident in or regularly using the World Heritage property and / or buffer zone have input in management decisions that maintain the Outstanding Universal Value?

Indigenous peoples directly contribute to **some decisions** relating to management but their involvement could be improved

4.3.10 - Is there cooperation with industry (i.e. forestry, mining, agriculture, etc.) regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone?

There is **regular contact** with industry regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone and **substantial co-operation** on management

4.3.11 - Comments, conclusions and / or recommendations related to human resources, expertise and training

The Management Plan is being implemented in phases with full cooperation and support of the local community.

4.3.12 - Please report any significant changes in the legal status and / or contractual / traditional

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protective measures and management arrangements for the World Heritage property since inscription or the last Periodic report

No Changes.

4.4. Financial and Human Resources

4.4.1 - Costs related to conservation, based on the average of last five years (relative percentage of the funding sources)

Multilateral funding (GEF, World Bank, etc)	0%
International donations (NGO's, foundations, etc)	0%
Governmental (National / Federal)	75%
Governmental (Regional / Provincial / State)	0%
Governmental (Local / Municipal)	0%
In country donations (NGO's, foundations, etc)	0%
Individual visitor charges (e.g. entry, parking, camping fees, etc.)	20%
Commercial operator payments (e.g. filming permit, concessions, etc.)	5%
Other grants	0%

4.4.2 - International Assistance received from the World Heritage Fund (USD)

Comment

No International Assistance has been received till date.

4.4.3 - Is the current budget sufficient to manage the World Heritage property effectively?

The available budget is **sufficient** but further funding would enable more effective management to international best practice standard

4.4.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding **are secure** in the medium-term and planning is underway to secure funding in the long-term

4.4.5 - Does the World Heritage property provide economic benefits to local communities (e.g. income, employment)?

There is a **major flow** of economic benefits to local communities from activities in and around the World Heritage property

4.4.6 - Are available resources such as equipment, facilities and infrastructure sufficient to meet management needs?

There are **adequate** equipment and facilities

4.4.7 - Are resources such as equipment, facilities and infrastructure adequately maintained?

Equipment and facilities are **well maintained**

4.4.8 - Comments, conclusion, and / or recommendations related to finance and infrastructure

The Current Annual Budget 2011-2012 is given by the State Government and it is sufficient. Subsequent budget allocations will be made by the State Government in the annual budget as

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per requirement indicated by the Management Authority for Jantar Mantar, Jaipur

4.4.9 - Distribution of employees involved in managing the World Heritage property (% of total)

Full-time	100%
Part-time	0%

4.4.10 - Distribution of employees involved in managing the World Heritage property (% of total)

Permanent	100%
Seasonal	0%

4.4.11 - Distribution of employees involved in managing the World Heritage property (% of total)

Paid	100%
Volunteer	0%

4.4.12 - Are available human resources adequate to manage the World Heritage property?

Human resources are **adequate** for management needs

4.4.13 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

Research and monitoring	Good
Promotion	Good
Community outreach	Fair
Interpretation	Fair
Education	Fair
Visitor management	Good
Conservation	Good
Administration	Good
Risk preparedness	Fair
Tourism	Good
Enforcement (custodians, police)	Good

4.4.14 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

Research and monitoring	Medium
Promotion	Medium
Community outreach	Low
Interpretation	Medium
Education	Medium
Visitor management	Medium
Conservation	High
Administration	Medium
Risk preparedness	Low
Tourism	High
Enforcement (custodians, police)	High

4.4.15 - Do the management and conservation programmes at the World Heritage property help develop local expertise?

A capacity development plan or programme is in place and **partially implemented**; some technical skills are being transferred to those managing the property locally **but most of the technical work is carried out by external staff**

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4.4.16 - Comments, conclusions and / or recommendations related to human resources, expertise and training

The human resources, expertise and training programmes are adequate. However, a comprehensive capacity development plan for the site with involvement of managers, volunteers and the community will be framed soon.

4.5. Scientific Studies and Research Projects

4.5.1 - Is there adequate knowledge (scientific or traditional) about the values of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained?

Knowledge about the values of the World Heritage property is sufficient

4.5.2 - Is there a planned programme of research at the property which is directed towards management needs and / or improving understanding of Outstanding Universal Value?

There is considerable research but it is not directed towards management needs and / or improving understanding of Outstanding Universal Value

4.5.3 - Are results from research programmes disseminated?

Research results are shared widely with the local, national and international audiences

4.5.4 - Please provide details (i.e. authors, title, and web link) of papers published about the World Heritage property since the last Periodic Report

1. Clive Ruggles (ed.) (2010) The Jantar Mantar at Jaipur, India by Michel Cotte. Astronomy & World Heritage ebook at <http://www.astronomicalheritage.org> 2. Rathnasree, Nandivada; Jain, Shikha (2009) Teaching laboratories for positional astronomy: the Jantar Mantar observatories of India in World heritage review series . Vol/Issue 54, p 30-33 UNESCO

4.5.5 - Comments, conclusions and / or recommendations related to scientific studies and research projects

A research database on all scientific studies and research on Jantar Mantar should be located in the Interpretation centre and workshops on further research should be carried out as outlined in the 'Outreach Policies' in the Management Plan

4.6. Education, Information and Awareness Building

4.6.1 - At how many locations is the World Heritage emblem displayed at the property?

In one location and easily visible to visitors

4.6.2 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

Local communities / residents	Excellent
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Local / Municipal authorities within or adjacent to the property	Excellent
Local Indigenous peoples	Excellent
Local landowners	Excellent
Visitors	Excellent
Tourism industry	Excellent
Local businesses and industries	Average

4.6.3 - Is there a planned education and awareness programme linked to the values and management of the World Heritage property?

There is a planned education and awareness programme but it only partly meets the needs and could be improved

4.6.4 - What role, if any, has designation as a World Heritage property played with respect to education, information and awareness building activities?

World Heritage status has been an important influence on education, information and awareness building activities

4.6.5 - How well is the information on Outstanding Universal Value of the property presented and interpreted?

The Outstanding Universal Value of the property is adequately presented and interpreted but improvements could be made

4.6.6 - Please rate the adequacy for education, information and awareness building of the following visitor facilities and services at the World Heritage property

Visitor centre	Not provided but needed
Site museum	Not provided but needed
Information booths	Excellent
Guided tours	Excellent
Trails / routes	Excellent
Information materials	Excellent
Transportation facilities	Excellent
Other	Not needed

4.6.7 - Comments, conclusions and / or recommendations related to education, information and awareness building

Visitor Centre and Site Museum are being currently designed as part of the Visitor Management and Interpretation Plan for Jantar Mantar, Jaipur under the overall Management Plan

4.7. Visitor Management

4.7.1 - Please provide the trend in annual visitation for the last five years

Last year	Minor Increase
Two years ago	Minor Increase
Three years ago	Minor Increase
Four years ago	Minor Increase
Five years ago	Minor Increase

4.7.2 - What information sources are used to collect trend data on visitor statistics?

Entry tickets and registries

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Tourism industry
Visitor surveys

4.7.3 - Visitor management documents

Comment

Currently being compiled as part of the Visitor Management Plan

4.7.4 - Is there an appropriate visitor use management plan (e.g. specific plan) for the World Heritage property which ensures that its Outstanding Universal Value is maintained?

Visitor use of the World Heritage property is managed but **improvements could be made**

4.7.5 - Does the tourism industry contribute to improving visitor experiences and maintaining the values of the World Heritage property?

There is **excellent co-operation** between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation

4.7.6 - If fees (i.e. entry charges, permits) are collected, do they contribute to the management of the World Heritage property?

The fee is collected, and makes **some contribution** to the management of the World Heritage property

4.7.7 - Comments, conclusions and / or recommendations related to visitor use of the World Heritage property

Visitor Use of the World Heritage Property is being managed well and it will be further enhanced after implementation of the first phase of the Visitor Management Plan in 2012.

4.8. Monitoring

4.8.1 - Is there a monitoring programme at the property which is directed towards management needs and / or improving understanding of Outstanding Universal Value?

There is a **comprehensive, integrated programme** of monitoring, which is relevant to management needs and / or improving understanding of Outstanding Universal Value

4.8.2 - Are key indicators for measuring the state of conservation used to monitor how the Outstanding Universal Value of the property is maintained?

Information on the values of the World Heritage property is sufficient and key indicators have been defined but **monitoring the status of indicators could be improved**

4.8.3 - Please rate the level of involvement in monitoring of the following groups

World Heritage managers / coordinators and staff	Excellent
Local / Municipal authorities	Average
Local communities	Not applicable
Researchers	Excellent
NGOs	Average
Industry	Not applicable

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Local indigenous peoples	Not applicable
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4.8.4 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is **underway**

4.8.5 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee

All recommendations of the World Heritage Committee such as the inclusion of the Management Plan in the Jaipur Master Plan 2025, formation of a Management Authority for the property and Capacity Building of the Department of Archaeology and Museums, Government of Rajasthan have been implemented.

4.8.6 - Comments, conclusions and / or recommendations related to monitoring

Specific recommendations related to monitoring such as 'regular recordings of the readings from the graduated scale of instruments are being administered with help of national level institutions of astronomy. Monitoring of any conservation and restoration works is being carried out by the experts and Archaeological Survey of India representative in the Management Authority.

4.9. Identification of Priority Management Needs

4.9.1 - Please select the top 6 managements needs for the property (if more than 6 are listed below)

Please refer to question 5.2

5. Summary and Conclusions

5.1. Summary - Factors affecting the Property

5.1.1 - Summary - Factors affecting the Property

		World Heritage criteria and attributes affected	Actions	Monitoring	Timeframe	Lead agency (and others involved)	More info / comment
3.4	Pollution						
3.4.5	Solid waste	None	Regular cleaning of buffer zone area by the Jaipur Municipal Corporation and placement of dustbins at appropriate locations.	Periodic monitoring by the Management Authority	Ongoing	Jaipur Municipal Corporation	No comments
3.8	Social/cultural uses of heritage						
3.8.6	Impacts of tourism / visitor / recreation	None	Visitor circulation in the property and buffer areas will be regulated as per the Visitor Management Plan. Visitor facilities will be provided in the property and buffer zone as outlined in the Interpretation, Use and Visitor Management Plan.	Periodic monitoring will be done by the Management Authority along with feedback from visitors as per monitoring indicators outlined in the Visitor Management Plan	Ongoing	Amber Development and Management Authority	No comments

5.2. Summary - Management Needs

5.2.2 - Summary - Management Needs

Please select your top management needs in question 4.9 before filling in the summary table.

5.3. Conclusions on the State of Conservation of the Property

5.3.1 - Current state of Authenticity

The authenticity of the World Heritage property has been **preserved**

5.3.2 - Current state of Integrity

The integrity of the World Heritage property is **intact**

5.3.3 - Current state of the World Heritage property's Outstanding Universal Value

The World Heritage property's Outstanding Universal Value has been **maintained**.

5.3.4 - Current state of the property's other values

Other important cultural and / or natural values and the state of conservation of the World Heritage property are **predominantly intact**

5.4. Additional comments on the State of Conservation of the Property

5.4.1 - Comments

The property retains its authenticity and integrity. This will further be ensured through periodic monitoring of all further restoration works to be undertaken in the property.

6. World Heritage Status and Conclusions on Periodic Reporting Exercise

6.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas

Conservation	Very positive
Research and monitoring	Very positive
Management effectiveness	Very positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Very positive
Education	Positive
Infrastructure development	Very positive
Funding for the property	Positive
International cooperation	Positive
Political support for conservation	Very positive
Legal / Policy framework	Very positive
Lobbying	Positive
Institutional coordination	Positive
Security	Positive
Other (please specify)	Not applicable

6.2 - Comments, conclusions and / or recommendations related to World Heritage status

The World Heritage Status of Jantar Mantar has led to an increasing realisation of its global significance amongst the residents and tourists, a special focus on restoration and management of the property by the State Government, improvement in surrounding infrastructure of the buffer zone and increasing political support for outreach as well as conservation of the property and buffer zone.

6.3 - Entities involved in the preparation of this Section of the Periodic Report

Governmental institution responsible for the property
Site Manager/Coordinator/World Heritage property staff
External experts

6.4 - Was the Periodic Reporting questionnaire easy to use and clearly understandable?

yes

6.5 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

The questionnaire is well framed. No suggestions for further improvement at present.

6.6 - Please rate the level of support for completing the Periodic Report questionnaire from the following entities

UNESCO	Very good
State Party Representative	Very good
Advisory Body	Very good

6.7 - How accessible was the information required to complete the Periodic Report?

All required information was accessible

6.8 - The Periodic Reporting process has improved the understanding of the following

The World Heritage Convention
The concept of Outstanding Universal Value
The property's Outstanding Universal Value
The concept of Integrity and / or Authenticity
The property's Integrity and / or Authenticity
Managing the property to maintain the Outstanding Universal Value
Monitoring and reporting
Management effectiveness

6.9 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

UNESCO	Not Applicable
State Party	Not Applicable
Site Managers	Not Applicable
Advisory Bodies	Not Applicable

6.10 - Summary of actions that will require formal consideration by the World Heritage Committee

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6.11 - Comments, conclusions and / or recommendations related to the Assessment of the Periodic Reporting exercise

The Periodic Reporting exercise indicates that the property is well managed and there is no threat to the OUV of the World Heritage Property. Few management aspects such as solid waste and tourism will require careful management in future which will be ensured by the existing management authority for the property.