

1. World Heritage Property Data

1.1 - Name of World Heritage Property

Sun Temple, Konârak

1.2 - World Heritage Property Details

State(s) Party(ies)

- India

Type of Property

cultural

Identification Number

246

Year of inscription on the World Heritage List

1984

1.3 - Geographic Information Table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Sun Temple, Konârak	19.888 / 86.095	10.62	0	10.62	1984
Total (ha)		10.62	0	10.62	

1.4 - Map(s)

Title	Date	Link to source
Detailed site plan of Sun Temple at Konarak, Dist. Purl., Orissa. Showing the demarcated area	12/12/1984	

1.5 - Governmental Institution Responsible for the Property

Comment

Ministry of Culture, Government of India

1.6 - Property Manager / Coordinator, Local Institution / Agency

- Superintending Archaeologist
Archaeological Survey of India

1.7 - Web Address of the Property (if existing)

1. 1001wonders.org : visit this site in panophotographies - 360 x 180 degree images
2. [View photos from OUR PLACE the World Heritage collection](#)
3. [Official Website of Ministry of Tourism](#)

Comment

http://www.asi.nic.in/asi_monu_whs_konark.asp

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

Comment

Protective Designation under: The Ancient Monuments and Archaeological Sites and Remains Act 1958 (ACT No. 24 of 1958) of the Government of India url: http://www.asi.nic.in/pdf_data/6.pdf ANCIENT MONUMENTS AND ARCHAEOLOGICAL SITES AND REMAINS RULES 1959 http://www.asi.nic.in/pdf_data/7.pdf The Ancient Monuments and Archaeological Sites and Remains (Amendment & Validation) Act 2010

2. Statement of Outstanding Universal Value

2.1 - Statement of Outstanding Universal Value / Statement of Significance

Comment

The Sun Temple, located on the eastern shores of the Indian subcontinent, is one of the outstanding examples of temple architecture and art; rendered in its conception, scale and proportion, and the sublime narrative strength of its sculptural embellishment. It is an outstanding testimony to the 13th-century kingdom of Orissa and monumental example of personification of divinity; thus forming the invaluable link in the history of the diffusion of the cult of Surya or the Sun-God. In this sense, it is directly and materially linked to Brahmanical and tantric belief systems.

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

(i)(iii)(vi)

2.3 - Attributes expressing the Outstanding Universal Value per criterion

Criterion (i): conception, architecture, sculpture and workmanship as a Chariot of the Sun God Criterion (iii): sculptural, narratives and scale which provide a visual threshold into the cultural, religious and secular life of the period Criterion (vi): association with living brahmanical and tantric practices as well as legends of creation

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

No revisions to SOUV are required.

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

No revisions to SOUV are required.

3. Factors Affecting the Property


























































































3.14. Other factor(s)

3.14.1 - Other factor(s)

Nil

3.15. Factors Summary Table

3.15.1 - Factors summary table

Name	Impact	Origin				
3.1	Buildings and Development					
3.1.5 Interpretative and visitation facilities	    					
3.2	Transportation Infrastructure					
3.2.1 Ground transport infrastructure	   					
3.2.4 Effects arising from use of transportation infrastructure	   					
3.3	Services Infrastructures					
3.3.4 Localised utilities	   					
3.4	Pollution					
3.4.5 Solid waste	   					
3.5	Biological resource use/modification					
3.5.3 Land conversion	   					
3.5.7 Subsistence wild plant collection	   					
3.5.10 Forestry /wood production	   					
3.7	Local conditions affecting physical fabric					
3.7.1 Wind	   					
3.7.2 Relative humidity	   					
3.7.5 Dust	   					
3.7.6 Water (rain/water table)	    					
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	   					
3.8.6 Impacts of tourism / visitor / recreation	   					
3.10	Climate change and severe weather events					
3.10.1 Storms	   					
3.10.2 Flooding	    					
3.11	Sudden ecological or geological events					
3.11.3 Tsunami/tidal wave	   					
3.13	Management and institutional factors					
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
3.7	Local conditions affecting physical fabric				
3.7.1 Wind	localised	frequent	significant	medium capacity	increasing
3.7.2 Relative humidity	localised	intermittent or sporadic	minor	low capacity	static
3.7.5 Dust	extensive	on-going	significant	medium capacity	static
3.7.6 Water (rain/water table)	restricted	intermittent or sporadic	significant	medium capacity	static
3.10	Climate change and severe weather events				
3.10.1 Storms	localised	intermittent or sporadic	minor	medium capacity	static
3.10.2 Flooding	localised	frequent	significant	low capacity	static

(i) Notified Area Council Act, Govt. of Orissa.

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?

An adequate legal framework for the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the World Heritage property exists but there are **some deficiencies in implementation**

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?

An adequate legal framework for the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the World Heritage property exists but there are **some deficiencies in implementation**

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?

An **adequate** legal framework exists for the area surrounding the World Heritage property and the buffer zone, but **there are some deficiencies in its implementation** which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the property

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

There is **acceptable** capacity / resources to enforce legislation and / or regulation in the World Heritage property but some deficiencies remain

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

Not applicable

4.3. Management System / Management Plan

4.3.1 - Management System

Comment

Current Management of the site rests with the office of Superintending Archaeologist (Bhubaneswar Circle, ASI) and conservation and management system is within the Archaeological Survey of India's annual maintenance cycle. It is implemented by the Senior Conservation Assistant (Bhubaneswar Circle, ASI) under the supervision of Asst. Superintending Archaeological Engineer and Superintending Archaeologist of the Bhubaneswar Circle of ASI.

4.3.2 - Management Documents

Comment

The long term guidelines and recommendations for management are under preparation

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

3.17.1 - Comments

No further recommendations / comments

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 the management authority but **are not known by 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 the management authority but **are not known by local residents / communities/landowners.**

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

No further recommendations / comments

4.2. Protective Measures

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

In order to preserve the values of the property, various Legislative Acts are in force viz.;

1. NATIONAL LEVEL

(i) Ancient Monuments and Archaeological Sites and Remains Act – 1958 and Rules 1959 and subsequent amendment – 1992, Govt. of India.

2. PROVINCIAL LEVEL

(i) Forest Act 1972, Govt. of Orissa.

(II) Puri, Konarak Development Authorities Act, 1993 Govt. of Orissa.

3. MUNICIPAL LEVEL

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 coordination between the range of administrative bodies / levels involved in the management of the property **but it could be improved**

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

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

4.3.5 - Is the management system being implemented?

The management system is **only partially** being implemented

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

An annual work / action plan exists and **many activities** are being implemented

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

Local communities / residents	Fair
Local / Municipal authorities	Fair
Indigenous peoples	Poor
Landowners	Poor
Visitors	Good
Researchers	Good
Tourism industry	Fair
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 have **some input** into discussions relating to management but no direct role

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 contact but only **some cooperation** with industry regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone

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

No further recommendations / comments

4.3.12 - Please report any significant changes in the legal status and / or contractual / traditional protective measures and management arrangements for the World Heritage property since inscription or the last Periodic report


No significant changes since last periodic report

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)	
International donations (NGO's, foundations, etc)	
Governmental (National / Federal)	100%
Governmental (Regional / Provincial / State)	
Governmental (Local / Municipal)	
In country donations (NGO's, foundations, etc)	
Individual visitor charges (e.g. entry, parking, camping fees, etc.)	
Commercial operator payments (e.g. filming permit, concessions, etc.)	
Other grants	

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

Title	Year	Amount	Link to source
Consultants to advise the authorities on the preservation of the Sun Temple of Konarak and of the Taj Mahal	1986	25500.00	
Total		25500	

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

The available budget is **acceptable** but could be further improved to fully meet the management needs

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 **some flow** of economic benefits to local communities

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

There are **some** equipment and facilities but overall these are **inadequate**

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

There is **basic** maintenance of equipment and facilities

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

No further recommendations / comments

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

Full-time	100%
Part-time	

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

Permanent	100%
Seasonal	

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

Paid	100%
Volunteer	

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

Human resources are **inadequate** 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	Fair
Promotion	Good
Community outreach	Poor
Interpretation	Good
Education	Fair
Visitor management	Poor
Conservation	Fair
Administration	Fair
Risk preparedness	Poor
Tourism	Fair
Enforcement (custodians, police)	Fair

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

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 drafted or in place, but is **not being implemented**

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

-N/A-

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

4.5.3 - Are results from research programmes disseminated?

Research results are **shared with local participants and some national agencies**

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

- N/A-

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

Extensive scientific studies have been carried out and currently the process to adapt them into an action plan for conservation is underway.

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	Average
Local / Municipal authorities within or adjacent to the property	Average
Local Indigenous peoples	Poor

Local landowners	Poor
Visitors	Excellent
Tourism industry	Excellent
Local businesses and industries	Average

Heritage property which ensures that its Outstanding Universal Value is maintained?

There is **some management** of the visitor use of the World Heritage property

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

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

-N/A-

4.7. Visitor Management

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

Last year	N/A
Two years ago	N/A
Three years ago	N/A
Four years ago	N/A
Five years ago	N/A

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

Entry tickets and registries

4.7.3 - Visitor management documents

4.7.4 - Is there an appropriate visitor use management plan (e.g. specific plan) for the World

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

There is contact between those responsible for the World Heritage property and the tourism industry but this is largely **confined to administrative or regulatory matters**

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 management plan is under preparation

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 **small amount** of monitoring, but it is not planned

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	Poor
Researchers	Excellent
NGOs	Average
Industry	Poor
Local indigenous peoples	Excellent

4.8.4 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is planned, but has **not yet begun**

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

Implementation of recommendations from World Heritage Committee has resulted in many scientific studies being undertaken and these are being adapted into an action plan at current date.

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

Attributes related to OUV are currently being monitored.

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
3.7	Local conditions affecting physical fabric					
3.7.1	Wind	criteria 1,3 affected: wind carries particles that cause pitting in the surface of the temple and its sculpted exterior. this causes degeneration of the sculptures over time.	Casurina trees planted around the periphery to retard the sand blasting process	Monitoring of Surface degeneration in micron and in millimetres.	5 seasonal cycles or about 60 months	Archaeological Survey of India proposal to create additional wind and sand buffer being developed currently
3.7.2	Relative humidity	Criterion 1, affects the structural stability by causing settling of sand and masonry infill	Investigate interior to ascertain the nature and extent of damage caused	Currently tell-tale marks fixed along structural cracks to ascertain their rate of expansion	12 months to 18 months	Archaeological Survey of India method for penetration of interior or Jagamohana being investigated
3.7.5	Dust	criteria 1,3 affected: dust particles cause degeneration of exterior	planting of garden immediately around monument to prevent loose earth from affecting structure	Monitoring of Surface degeneration in micron and in millimetres.	5 seasonal cycles or about 60 months	Archaeological Survey of India -N/A-
3.7.6	Water (rain/water table)	criteria 1,3 : rain affects the exterior as well as interior fabric of the temple, causing structural threat as well as dissolution of the crystalline structure of khondalite sandstone	Cleaning and repair works after every monsoon season to remove biological growth and carry out minor repairs	-N/A-	-N/A-	Archaeological Survey of India -N/A-
3.10	Climate change and severe weather events					
3.10.1	Storms	criteria 1,3 : storms are a threat to structural stability and also may cause flooding; moreover they deposit large amounts of sand within the complex	-N/A-	-N/A-	-N/A-	-N/A-
3.10.2	Flooding	criteria 1,3 : floods are a threat to structural stability	Lowering of grade of garden in the temple complex to prevent waterlogging / pumping as a temporary measure	In rainy seasons, amount of water collection is measured to assess performance and effectiveness of action	2 years	Archaeological Survey of India -N/A-

5.2. Summary - Management Needs

5.2.2 - Summary - Management Needs

4.8 Monitoring						
		Actions	Timeframe	Lead agency (and others involved)	More info / comment	
4.8.1	Some monitoring, but it is not planned	Finalisation of indicators and actual attributes to be monitored through a selection and filtering process according to level of impact of factors affecting property	To be decide after finalisation of indicators	Archaeological Survey of India	-N/A-	

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 **impacted** by factors described in this report, but this situation is being **addressed through effective management actions**.

5.3.4 - Current state of the property's other values

Other important cultural and / or natural values are being **partially degraded** but the state of conservation of the World Heritage property has not been significantly impacted

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

5.4.1 - Comments

State of Conservation is being monitored by local level offices of ASI to assess nature and level of deterioration and trends in threats

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	Positive
Research and monitoring	Positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	No impact
Recognition	Very positive
Education	Very positive
Infrastructure development	Positive
Funding for the property	Very positive
International cooperation	Very positive
Political support for conservation	Very positive
Legal / Policy framework	No impact
Lobbying	Negative
Institutional coordination	No impact
Security	No impact
Other (please specify)	

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

No further recommendations / comments

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

Governmental institution responsible for the property

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

Should allow the inclusion of site-specific details tailor-made to every WHS based on SOUV and previous periodic reports instead of a generic form

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

UNESCO	Good
State Party Representative	Good
Advisory Body	Good

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

Most of the 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	Satisfactory
State Party	Satisfactory
Site Managers	Satisfactory
Advisory Bodies	Satisfactory

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

• Statement of Outstanding Universal Value / Statement of Significance

Reason for update: The Sun Temple, located on the eastern shores of the Indian subcontinent, is one of the outstanding examples of temple architecture and art; rendered in its conception, scale and proportion, and the sublime narrative strength of its sculptural embellishment. It is an outstanding testimony to the 13th-century kingdom of Orissa and monumental example of personification of divinity; thus forming the invaluable link in the history of the diffusion of the cult of Surya or the Sun-God. In this sense, it is directly and materially linked to Brahmanical and tantric belief systems.

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

The draft RSOUV has been submitted by the State Party to the World Heritage Centre for review and adoption.