



## Annex 4: Procedures for chance finds and ESM&MP for physical cultural resources<sup>1</sup>

### Management of Culturally Valuable Sites<sup>2</sup>

Law 117/1983 for the Protection of antiquities has set certain standards that should be followed during excavation works near a registered antiquity site. Proposed mitigation measures include:

1. Identifying a comprehensive list of all registered antiquities falling within the domain of the project and possibly at risk from construction activities.
2. Provide supervision by the Supreme Council of Antiquities on implementation of construction works at identified locations.
3. If dewatering activities are to take place, the process should be undertaken under the supervision of foundation engineers who shall perform necessary soil investigations.
4. Reduce vibration, in identified locations of antiquities:
  - a. using manual tools whenever possible;
  - b. phasing work to eliminate vibrations from several machinery; and
  - c. Establish cutoff barrier through a vertical trench to absorb vibrations.
5. Fixing gas risers on the back of architecturally valuable structures.
6. Chance find process, in case an antiquity is found during excavation, includes stopping excavation works, and contacting the Supreme Council of Antiquities to handle the site.

Monitoring activities will be site specific according to the requirements and conditional permits granted by the Supreme Council for Antiquities.

1. Monitor vibration levels at the monument location during excavation.
2. Undertake geophysical survey for some locations prior to construction, according to the instructions of the Supreme Council of Antiquities.

The LDC site supervisor will be responsible for documenting the monitoring activities in monthly reports delivered to EGAS.

These mitigation measures, **if required**, shall be implemented by the Council, while the costs will be covered by LDCs.

Cultural property include monuments, structures, works of art, or sites of significance points of view, and are defined as sites and structures having archaeological, paleontological, historical, architectural, religious, aesthetic, or other cultural significance. This includes cemeteries, graveyards and graves.

Antiquities Law 117/1983: Article 24 states that everyone who finds by chance the part or parts of a fixed monument in its place must promptly inform the nearest administrative authority within forty-eight hours.

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<sup>1</sup> In the highly unlikely event that such finds are encountered in the project areas which are have been previously excavated for all underground utilities.

<sup>2</sup> If encountered within project areas.



Prior to the construction phase, the approval shall be obtained from the antiquities department and surveying department

### **Chance Find Procedures**

1. Stop the construction activities in the area of the chance find;
2. Delineate the discovered site or area;
3. Secure the site to prevent any damage or loss of removable objects. In cases of removable antiquities or sensitive remains, a night guard shall be present until the responsible local authorities and Ministry take over;
4. Notify the site manager and HSE supervisor who in turn will notify the responsible local authorities and the Antiquities Authority immediately (within 24 hours or less);
5. Responsible local authorities and the Antiquities Authority would be in charge of protecting and preserving the site before deciding on subsequent appropriate procedures;
6. Decisions on how to handle the finding shall be taken by the responsible authorities from the Antiquities Authority;
7. Construction work could resume only after permission is given from the responsible local authorities and the Antiquities Authority concerning safeguard of the heritage.

These procedures must be referred to as standard provisions in construction contracts, where applicable. During project supervision, the site manager and HSE supervisor shall monitor the above regulations relating to the treatment of any chance find encountered are observed.

Relevant findings will be recorded in Monitoring Reports and Implementation Completion Reports (ICRs) submitted to the World Bank.



**Table Error! No text of specified style in document.-1: Management matrix for cultural sites (if encountered)**

Impact	Mitigation measures	Responsibility of mitigation	Responsibility of direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
Effects on cultural sites	Identify areas of antiquities, monument repair zones	Contactora & Supreme Council for Antiquities and Local Council	LDC HSE	Review permitting procedures and ensure review of Council	LDC costs
	Supervise intensity and locations of construction activities	Expert from Supreme Council of Antiquities	LDC HSE	Review field reports + field supervision	Indicative cost to be revised and included in contractor bid \$715 / site for supervision and measurement of vibration for locations identified as “monument-critical”  LDC costs
	Control dewatering process	Contractor	Supreme Council Expert + LDC HSE	Field supervision	Indicative cost to be revised and included in contractor bid \$2,850 /site  LDC costs
	Reduce vibrations	Contractor	Supreme council Expert + LDC HSE	Contractual clauses + Field supervision	Indicative cost to be revised and included in contractor bid \$2,150/site  LDC costs
	Preserve architecturally	Contractor	LDC HSE	Field supervision	Contractor costs (included in bid price) +



Impact	Mitigation measures	Responsibility of mitigation	Responsibility of direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
	valuable sites				LDC costs
	Preserve any found antiquity	Contractor + LDC HSE supervisor	LDC HSE	Field inspection throughout works and review field reports	Contractor costs (included in bid price) + LDC costs

**Table Error! No text of specified style in document.-2: Monitoring matrix for cultural sites (if encountered)**

Impact	Monitoring indicators	Responsibility of monitoring	Frequency of monitoring	Location of monitoring	Methods of monitoring	Estimated Cost of monitoring
<b>Effects on monuments and vulnerable buildings</b>	Vibration test results	LDC HSE	During construction near sites identified by the Council	Construction site	Calibrated vibration test meter	(\$750/meter + \$160 maintenance and calibration) x 11 vibration meters = \$10,000
	Investigate possible buried antiquities	LDC HSE + Supreme Council for Antiquities	Once before construction if required by the council	Streets and areas identified by the Council	Geophysical survey	Contractor costs (included in bid price) in areas designated as antiquities or monument repair zones (to be covered by LDC)