



Ref. no.: CESMP/IP-054/9-21-A12  
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**Name of Sub- Project:** Physical Cultural Resources Management Plan (PCRMP)  
Illumination of Archaeological Sites Peshawar Museum  
Western Gate, Gor Gathri & Sethi House Peshawar

**Contractor Environmental and Social Management Plan (CESMP)**

Topic	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibility	Monitoring Procedure
a. Minor waste from Supply and erection PVC pipe.	All the waste produced from the activity a, b, c can be dump in the solid waste bin in the premises by contractor, the solid waste can be disposed by municipality.	Visual check, Register, Training report and pictures	Contractor	Check the register  Random site inspection
b. Supply and installation and testing and commission of light fixtures.	For "d" the following mitigation measures are as below:  Retired batteries (Dry cell batteries) shall be disposed of to the recyclers.			
c. Drilling for minor holes in electricity wiring is expected, can create environmental problems.	Luminaries contain types of materials that are also recyclable i.e, steel, plastic, extruded aluminum, cast iron and glass.			
d. End-of-life disposal of	The minor integrated circuits inside the equipment shall be disposed of			



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<p>equipment and light fixtures</p>	<p>along the municipality waste whose impact on environment shall be negligible to none.</p> <p>The luminaries proposed have replaceable lamps technology thus making the overall solution more sustainable and prone to lesser e-waste and having a remarkable life span.</p> <p>One time training will be provided to Museum staff for operations &amp; maintenance and handling the equipment waste by the contractor.</p>			
<p>Noise disturbance can cause deafness of the worker.</p>	<p>Contractor shall provide ear plugs to the worker/ and all other PPEs for drilling purpose, such as gloves, mask, glasses</p>	<p>Visual check</p>	<p>Contractor</p>	<p>Random site inspection</p>
<p>It will have an impact as illumination work will enhance attraction of Peshawar Museum and thus it will encourage more</p>	<p>All drilling, electrification and related works will be carried out by properly trained and experienced workers for PCR sites.</p>	<p>Visual check</p>	<p>Contractor</p>	<p>Random site inspection</p>



tourists to visit, however, these also adverse impacts, if contractor not comply.	All works will be done under the strict supervision of a qualified archeologist with prior experience of conducting such works on and around PCR sites.  Shall comply with relevant/prescribed regulations applicable on PCR.			
Improper Waste management can cause social and environmental problems within the vicinity of Peshawar Museum	The applicable existing waste management will be enforced..  Staff engaged in handling and disposing waste will be provided with PPEs including safety gloves and masks.	Visual check	Contractor	Random site inspection
Safe access to points for installation of lights and wiring	Shall have adequate safe access to every point for installers and O&M personnel e.g., i.e., working platform for electrician, staircase slope, riser height, tread width, landings, hand railing etc.  Properly trained worker will be involved for installation of illumination equipment.	Visual check	Contractor	Random site inspection



Working tools for electrification work	Proper and safe working tools shall be used in order to avoid any unforeseen event.  In case of any damage tools will immediately be replaced by the Contractor.	Visual check	Contractor	Random site inspection
Installation of routers/ Electricity Board	Shall provide under shed/ or in ventilated room, to avoid damages by short circuit.	Visual check	Contractor	Random site inspection
Safety of installers and O&M Personnel	PPEs shall be provided such as Safety boots, apron, ear plugs, eye glasses, mask, rubber gloves for electrical works, to the workers	Visual check	Contractor	Random site inspection
Safety and Fire Hazards	Emergency Preparedness and Response Plan will be strictly adhered to mitigation measures include: Taking care of basic safety measures like providing rubber mats, gloves, first-aid box, fire extinguishers to handle all type of fires and well-lit exit routes while installers and O&M personnel are at work, in case of fire or any type of emergencies. Fire	Visual check	Contractor	Random site inspection



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	extinguisher will be installed near main circuit board.			
Covid SOPs	Covid SOPs will be strictly adhered to during work. Contract to provide PPEs, hand sanitizers etc to workers.	Visual check	Contractor	Random site inspection



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for & on behalf of  
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