



GOVERNMENT
OF KHYBER
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KHYBER PAKHTUNKHWA
**INTEGRATED TOURISM
DEVELOPMENT PROJECT (KITE)**
PROJECT MANAGEMENT UNIT (DoT)

Department of Tourism, Culture, Sports, Archaeology, Museums & Youth Affairs

PHYSICAL CULTURAL RESOURCES MANAGEMENT PLAN (PCRMP)

Illumination of Archaeological Sites

September 2021

Peshawar Museum
Western Gate, Gor Gathri
Sethi House

Project Management Unit (DoT)
Khyber Pakhtunkhwa Integrated Tourism
Development Project (KITE)



Physical Cultural Resources Management Plan (PCRMP)

**Illumination of Peshawar Museum, Western Gate, Gor Gathri and Sethi
House Peshawar**

Name of Sub-project	Supply, Installation, Testing & Commissioning of Illumination equipment for Illumination of various Archaeological sites in Khyber Pakhtunkhwa
Nature of Subproject	Tourism promotion through night tourism
Subproject Location	Peshawar Museum, Western Gate, Gor Gathri and Sethi House Peshawar
Proposed Activities	PMU KITE DoT intends to install electric equipment for illumination in the above stated three archaeological sites to enhance its attraction and appealing to promote tourism. This includes electric wiring, installation of spots lights, flood lights and other modern illumination equipment ¹ . As such no construction or civil work is required for this purpose. Specifications and drawings are attached as Annex- IV .
Subproject Objective	Tourism promotion
Proposing Agency/ Department	KITE project DoT
Estimated Cost	Approximately PKR, 40 million in total for three sites
Current Information for Environmental & Social Screening	KITE ESMF, site visits, consultations with staff and visitors.

¹ Solar panels are not included in KITE BoQ. Electric Supply will be from Museum existing sources. Solar panels are being provided under Economic Revitalization of Khyber Pakhtunkhwa (ERKP). However, mitigation measures are further emphasized in this E&S Screening assessment as a precautionary measure.



Legal and Regulatory Framework

a. E&S Operational Policies of World Bank:

This activity can potentially cause negative environmental and social impacts in small scale, localized and reversible in nature therefore this PCRMP has been prepared in accordance with OP 4.01, 4.04, 4.10 and OP 4.11.

i. OP 4.01 Environmental Assessment:

This policy defines the Environmental Assessment (EA) process and various types of the EA instruments. Since most of impacts from this activity are likely to be small scale, short term, localized, and reversible in nature therefore can be managed through PCR mitigation and management plan (checklist followed by supervision and monitoring checklist).

ii. OP 4.11 Physical and Cultural Resources:

This policy safeguards archaeological, physical or cultural heritage sites and assists in their preservation and avoids their elimination. The sub-project activity is planned to be implemented on PCR sites. Therefore, this PCR Plan has been prepared to ensure any adverse impacts can be catered to during electrical works as well as operationalization phase.

b. KP Environmental Protection Act (Revised 2014):

Relevant provisions are as follows:

Section 15 (Handling of Hazardous Substances) requires that “Subject to the provisions of this Act, no person shall generate, collect, consign, transport, treat, dispose of, store, handle, or import any hazardous substance except (a) under a license issued by the EPA and in such manner as may be prescribed; or (b) in accordance with the provisions of any other law for the time being in force, or of any international treaty, convention, protocol, code, standard, agreement, or other Instrument to which Pakistan is a party.”

Section 18 (Penalties): Whoever contravenes or fails to comply with the provisions of section 11, 12, 13, or section 16 or any order issued thereunder shall be punishable with fine which may extend to one million rupees, and in the case of a continuing contravention or failure, with an additional fine which may extend to one hundred thousand rupees for every day during which such contravention or failure continues: **Khyber Pakhtunkhwa**

Antiquities Act 2016:



The protection of cultural resources in KP is ensured by the Antiquities Act of 2016. Antiquities have been defined in the Act as ancient products of human activity, historical sites, or sites of anthropological or cultural interest, national monuments etc. The act is designed to protect antiquities from destruction, theft, negligence, unlawful excavation, trade and export.

Implementation Arrangements:

Project Director (PD) PMU KITE DoT will be overall responsible for the PCRMP implementation. The Liaison & Coordination Officer PMU DoT and Archaeological Engineer DoAM are designated as the PCRMP Coordinators for effective implementation of this PCRMP. The PCRMP Coordinators will ensure that the PCRMP is provided to each of the construction contractors.

The Environmental Screening Checklists (**Annexure-I-III**) has been filled for each site at the outset by the PMU Environment and Social Expert. The complete PCRMP will be kept at the respective site; copies of the PCRMP will be provided to the DoAM and contractor.

The PCRMP Coordinators will also ensure that the environmental monitoring is carried out regularly during the entire implementation phase. The filled Environmental Monitoring Checklist after each monitoring visit will be sent to the PMU E&S Specialist, who will review and maintain complete record of these Checklists. He will also prepare a quarterly report on the basis of the filled checklists, summarizing the salient information and outcome of the environmental monitoring of each site. These quarterly reports will be provided to the KITE Project Director, and will also be shared with the World Bank.

Post-construction, the Directorate of Archaeology Khyber Pakhtunkhwa will be responsible for the regular O&M for these sites. E&S Expert PMU KITE will do regular monitoring visits in this regard.

STAKEHOLDERS CONSULTATIONS

Consultation meetings were held with the staff of Peshawar Museum, Gor Gathri and Sethi House. The consultations involved briefing about the proposed installation of illumination equipment for improving the visual impact and thus promoting tourism. The



staff members appreciated the idea and welcomed the initiative and suggested the following to be considered during implementation:

- i. Proper location and angles shall be identified during installation of lights so that it could fulfill its intended purpose under the supervision of a qualified and experienced archeologist.
- ii. Make sure that these equipment and wiring are safe and easy to handle during operation with proper fire safety provisions.
- iii. Main switches if any are installed out site building shall be made water-proof.
- iv. Use of those lights /equipment's shall be preferred that is available locally so that in case of any fault it could be replaced easily

The E&S team will ensure the above compliances. Consultative meeting pics and attendance is attached.

Environmental Screening Assessment & Management:

The E&S team conducted screening and assessment and prepared environmental management plan. According to the assessment the proposed sub project activity comes under Category B.

Mitigation and Monitoring Budget:

The cost for the implementation stage activities given in this plan will be included within the contract for this sub-project with total cost of Rs. 140,000/-



Table 1: PCR Mitigation and Monitoring Plan for Three Archeological Sites:

E&S Issues	Mitigation Measures	Responsibility	Monitoring by during installation/ Construction	Budget (PKR)
<p>Minor waste from Supply and erection PVC pipe. Supply and installation and testing and commission of light fixtures. Drilling for minor holes in electricity wiring is expected, can create environmental problems. End-of-life disposal of equipment and light fixtures</p>	<p>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. For “d” the following mitigation measures are as below: Retired batteries (Dry cell batteries) shall be disposed of to the recyclers. Luminaries contain types of materials that are also recyclable i.e, steel, plastic, extruded aluminum, cast iron and glass. The minor integrated circuits inside the equipment shall be disposed off along the municipality waste whose impact on environment shall be negligible to none. 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. One time training will be provided to Museum staff for operations & maintenance and handling the equipment waste by the contractor.</p>	<p>Contractor</p>	<p>DoA/ PMU DoT</p>	<p>10,000</p>



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Noise disturbance can cause deafness of the worker.	Contractor shall provide ear plugs to the worker/ and all other PPEs for drilling purpose, such as gloves, mask, glasses	Contractor	DoA/ PMU DoT	50,000
It will have an impact as illumination work will enhance attraction of Peshawar Museum and thus it will encourage more tourists to visit, however, these also adverse impacts, if contractor not comply.	All drilling, electrification and related works will be carried out by properly trained and experienced workers for PCR sites. 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 Peshawar Museum	Contractor	DoA/ PMU DoT	NA
Improper Waste management can cause social and environmental problems within the vicinity of Peshawar Museum	The applicable existing waste management will be enforced.. Museum staff engaged in handling and disposing waste will be provided with PPEs including safety gloves and masks.	Contractor	DoA/ PMU DoT	10,000
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.	Contractor	DoA/ PMU DoT	NA



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.	Contractor	DoA/ PMU DoT	NA
Installation of routers/ Electricity Board	Shall provide under shed/ or in ventilated room, to avoid damages by short circuit.	Contractor	DoA/ PMU DoT	NA
Safety of installers and O&M Personnel	PPEs shall be provided as follows: Safety boots, apron, ear plugs, eye glasses, mask, rubber gloves for electrical works, to the workers	Contractor	DoA/ PMU DoT.	*As above
Safety and Fire Hazards	Emergency Preparedness and Response Plan (Annex VII) 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 extinguisher will be installed near main circuit board.	Contractor	DoA/ PMU DoT	10,000
Covid SOPs	Covid SOPs will be strictly adhered to during work. Contract to provide PPEs, hand sanitizers etc to workers.	Contractor	DoA/ PMU DoT	As above*



Monitoring Plan:

The objective of environmental monitoring during the various phases of the proposed sub-project will be as follows:

- Ensuring that the mitigation measures included in the PCRMP are being implemented completely.
- Ensuring the effectiveness of the mitigation measures in minimizing the project's impacts on social and environmental resources.

Activities	Mitigation Measures	Monitoring Parameters	Monitoring Frequency	Responsibility of Monitoring
Minor waste from a. Supply and erection PVC pipe. b. Supply and installation and testing and commission of light fixtures. c. Drilling for minor holes in electricity wiring is expected, can create environmental problems. d. End-of-life disposal of equipment and light fixtures	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. For "d" the following mitigation measures are as below: <ul style="list-style-type: none"> • Retired batteries (Dry cell batteries) shall be disposed of to the recyclers. • Luminaries contain types of materials that are also recyclable i.e, steel, plastic, extruded aluminum, cast iron and glass. • The minor integrated circuits inside the equipment shall be disposed off along the municipality waste whose impact on environment shall be negligible to none. • The luminaries proposed have 	<ul style="list-style-type: none"> • Visual inspection • Agreement with certified recycler for proper disposal of waste • other construction waste is disposed of in municipal bins. • Mechanisms in place on site for collection and disposal of waste. • Training topic covered under th training modules 	<ul style="list-style-type: none"> • Once at the time of mobilization of contractor • Once during implementation of works 	DoA/ PMU DoT



	<p>replaceable lamps technology thus making the overall solution more sustainable and prone to lesser e-waste and having a remarkable life span.</p> <ul style="list-style-type: none"> • One time training will be provided to Museum staff for operations & maintenance and handling the equipment waste by the contractor. 			
Noise disturbance can cause deafness of the worker.	Contractor shall provide ear plugs to the worker/ and all other PPEs for drilling purpose, such as gloves, mask, glasses	<ul style="list-style-type: none"> • PPE training has been delivered • PPEs are available and utilized by the workers 	<ul style="list-style-type: none"> • Once at the time of mobilization of contractor • Once during implementation of works 	DoA/ PMU DoT
It will have an impact as illumination work will enhance attraction of Peshawar Museum and thus it will encourage more tourists to visit, however, these also adverse impacts, if contractor not comply.	<ul style="list-style-type: none"> • All drilling, electrification and related works will be carried out by properly trained and experienced workers for PCR sites. • 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 relevant/prescribed regulations applicable on Peshawar 	<ul style="list-style-type: none"> • experience and qualification certificate of workers on site • Supervision qualified archaeologist 	<ul style="list-style-type: none"> • Once at the time of mobilization of contractor • Once during implementation of works 	DoA/ PMU DoT



	Museum			
Improper Waste management can cause social and environmental problems within the vicinity of Peshawar Museum	<ul style="list-style-type: none"> The applicable existing waste management will be enforced. Museum staff engaged in handling and disposing waste will be provided with PPEs including safety gloves and masks. 	<p>PPEs are available for staff handling the equipment.</p> <p>Staff has been trained for proper usage of equipment</p>	<ul style="list-style-type: none"> Once at the time of mobilization of contractor Once during implementation of works 	PMU DoT
Safe access to points for installation of lights and wiring	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Safe points have been identified by the qualified archaeologist and are part of drawings. experience and qualification certificate of workers on site Supervision qualified archaeologist 	<ul style="list-style-type: none"> Once at the time of mobilization of contractor Once during implementation of works 	DoA/ PMU DoT
Working tools for electrification work	<ul style="list-style-type: none"> Proper and safe working tools shall be used in order to avoid any unforeseen event. In case of any damage tools will 	<ul style="list-style-type: none"> experience and qualification certificate of workers on site Supervision qualified archaeologist 	Once during implementation of works	DoA/ PMU DoT



	immediately be replaced by the Contractor.	<ul style="list-style-type: none"> Visual inspection of tools 		
Installation of routers/ Electricity Board	<ul style="list-style-type: none"> Shall provide under shed/ or in ventilated room, to avoid damages by short circuit. 	<ul style="list-style-type: none"> experience and qualification certificate of workers on site Supervision qualified archaeologist Inspection of designs during implementation 	Visual inspection once during implementation	DoA/ PMU DoT
Safety of installers and O&M Personnel	<ul style="list-style-type: none"> PPEs shall be provided as follows: Safety boots, apron, ear plugs, eye glasses, mask, rubber gloves for electrical works, to the workers 	<ul style="list-style-type: none"> PPEs are available for staff handling the equipment. Staff has been trained for proper usage of equipment 	Visual inspection once during implementation	DoA/ PMU DoT
Safety and Fire Hazards	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan (EPRP) includes detailed mitigation measures in event of a hazard incident such as: 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 extinguisher will be installed near main circuit board. 	<ul style="list-style-type: none"> Emergency preparedness and response plan has been prepared EPRP is being implemented Training delivered to all staff mentioned in emergency preparedness and response plan Visual inspection of equipment available for fire fighting 	Visual inspection during implementation Inspection of records for the implementation of EPRP once before operationalization	DoA/ PMU DoT
Covid SOPs	<ul style="list-style-type: none"> Covid SOPs will be strictly adhered to during work. Contract to provide 	<ul style="list-style-type: none"> Covid SOPs are being strictly adhered to during work. 	Visual inspection during	DoA/ PMU DoT



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	PPEs, hand sanitizers etc to workers.	<ul style="list-style-type: none">• PPEs, hand sanitizers etc is provided by contractor to workers.	implementation	
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Note: Implementation monitoring budget will be supported by DoAM through its own resources.



CAPACITY BUILDING

Training

To ensure the successful implementation of the environmental and mitigation measures, a strengthening of relevant and fundamental competencies is essential. The objectives of the environmental trainings include providing basic knowledge and information on the key environmental and social issues associated with the proposed interventions to the key project personnel including the DoAM staff, PMU staff and Contractors involved in management of the subproject.

In order to comply with the anticipated environment and social attributes as described in PCRMP, meetings will be held with the contractor to ensure the socially acceptable and environmentally sustainable situation during execution of the schemes.

The Contractor will also be briefed about procedures and methods for complying with environmental and social management conditions, and any specific conditions specified in an PCRMP; a description of specific mitigation measures that will be implemented in order to minimize adverse impacts; a description of all planned monitoring activities. Contractor will ensure that the proposed project activities are in compliance with the PCRMP, NEQS and World Bank operational policies.

Environmental and Social Safeguard Expert at the PMU KITE will actually execute the training programs. E&S Expert will be responsible for the overall implementation of training plan and will also ensure proper relevant documentation. The budget will be managed through KITE. A tentative training plan is given below: Training plan under PCRMP					
Description of Training	Training Module	Location	Participants	Frequency	Budget
One day training by DoAM on PCR Management Plan	<ul style="list-style-type: none"> Implementation of PCRMP Detail about Mitigation Measures proposed in PCRMP O&M of Rescue stations GRM Monitoring and reporting 	One in PMU and one at each sub- project site	Contractor, DoAM staff,	Before start of implementation activities by the Contractor	5,000
One day training by the DoAM for	<ul style="list-style-type: none"> approved project 	Sub-project site	Contractors, PMU Staff	Before start of implementation	5,000



the contractor and workers regarding Design and methodology	<p>designs</p> <ul style="list-style-type: none"> utilization of proper tools, materials and methodology for the electrical works 			activities by the Contractor	
One day Training on Appropriate personal protective equipment (PPE) and First Aid	<ul style="list-style-type: none"> What is the purpose of PPE? How important to use PPE? How to use PPE? First Aid EHS aspects Fire Fighting 	PMU KITE Peshawar	Contractor, DoAM staff,	At the start of Construction	5000



Mitigation and Monitoring Budget:

The cost for the implementation of implementation stage mitigation activities given in this plan will be included within the contract for this sub-project with total cost of Rs. **100,000/-**. After completion of assignment all sites will be handed over to DoAM for operations, hence, all O&M will be borne by DoAM through its own annual budget. DoAM has been observed to have adequate capacity with regards to implementation of Project O&M.

Name of item	Quantity	Unit
Face Masks	10	box
Safety Shoes	20	pairs
Gloves	50	pairs
First Aid Box	5	1 Box per site
Ear Plugs	55	Pair
Safety Helmets	55	Per person
Safety Jackets	20	Per person
Sanitizer	11	Per site
Reflective Tape	11	Each
Safety cones	20	Each
Safety boards	11	Each



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Annex-I

Environmental and Social Screening (E&S Screening)

I. Illumination of Peshawar Museum

Name of Sub-project	Supply, Installation, Testing & Commissioning of Illumination equipment for Illumination of various Archaeological sites in Khyber Pakhtunkhwa
Nature of Subproject	Tourism promotion through night tourism
Subproject Location	Peshawar Museum, Peshawar
Coordinates	34.007867N, 71.558164E
Proposed Activities	PMU KITE DoT intends to install electric equipment for illumination different archaeological sites to enhance its attraction and appealing more tourists. This includes electric wiring, installation of spots lights, flood lights and other modern illumination equipment. As such as no construction or civil work is required for this purpose.
Current Information for Environmental & Social Screening	KITE ESMF, site visit (dated: 20.04.2021), consultation with staff and visitors.



Environmental and Social Screening

S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
A	Zoning and Land Use Planning					
1.	Will the subproject affect land use zoning and planning or conflict with prevalent land use patterns?	X	-	-	-	DoA owned the Peshawar Museum therefore the activity will not affect any land use pattern.
2.	Will the subproject involve significant land disturbance or site clearance?	X	-	-	-	No site clearance is involved.
3.	Will the subproject land be subject to potential encroachment by urban or industrial use or located in an area intended for urban or industrial development?	X	-	-	-	
B	Utilities and Facilities					
1.	Will the subproject require the setting up of ancillary facilities?	X	-	-	-	
2.	Will the subproject make significant demands on utilities and services?	-	X	-	-	Will require electricity for the illumination however the museum has its electricity back up including solar system to cater for the needs.
3.	Will the subproject require significant levels of accommodation or service amenities to support the workforce during construction	X	-	-	-	
C	Water and Soil Contamination					
1.	Will the subproject require large amounts of raw materials or construction materials?	X	-	-	-	No such activities/ construction materials are required during execution of this activity.
2.	Will the subproject generate large amounts of residual wastes, construction material waste or cause soil erosion?	-	X	-	-	Minor waste from a. Supply and erection PVC pipe b. Installation of light fixtures c. Drilling for minor holes for electricity wiring is expected. As a mitigation measure all waste produced



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						will be dumped in the solid waste bin in the premises by contractor, later to be disposed of by the municipality.
3.	Will the subproject result in potential soil or water contamination (e.g., from oil, grease and fuel from equipment yards)?	X	-	-	-	
4.	Will the subproject lead to an increase in suspended sediments in streams affected by road cut erosion, decline in water quality and increased sedimentation downstream?	X	-	-	-	
5.	Will the subproject involve the use of chemicals or solvents?	X	-	-	-	Deep Cycle Value Regulated Lead Acid Batteries (Dry cell batteries) shall be used that contain solid gel rather than liquid.
6.	Will the subproject lead to the destruction of vegetation and soil in the right-of-way, borrow pits, waste dumps, and equipment yards?	X	-	-	-	
7.	Will the subproject lead to the creation of stagnant water bodies in borrow pits, quarries, etc., encouraging for mosquito breeding and other disease vectors?	X	-	-	-	
D	Noise and Air Pollution Hazardous Substances					
1.	Will the subproject increase the levels of harmful air emissions?	X	-	-	-	
2.	Will the subproject increase ambient noise levels?	-	X	-	-	Minor noise disturbance is expected during drilling. As a mitigation measure contractor shall provide ear plugs to the workers.
3.	Will the subproject involve the storage, handling or transport of hazardous substances?	-	X	-	-	It is expected that e-waste will be in the form of expired batteries, and parts of damaged luminaries at the end of their life cycle can be



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						generated. As a mitigation measure: <ul style="list-style-type: none"> • Expired batteries (Dry cell batteries) shall be disposed off per govt procedures. • Luminaries contain types of materials that are also recyclable i.e, steel, plastic, extruded aluminum, cast iron and glass. • • 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. The replaced lamps will be disposed off as per government procedures.
E	Fauna and Flora					
1.	Will the subproject involve the disturbance or modification of existing drainage channels (rivers, canals) or surface water bodies (wetlands, marshes)?	X	–	–	–	The subject activity has no direct effect on Fauna and Flora.
2.	Will the subproject lead to the destruction or damage of terrestrial or aquatic ecosystems or endangered species directly or by induced development?	X	–	–	–	
3.	Will the subproject lead to the disruption/destruction of wildlife through interruption of migratory routes,	X	–	–	–	
4.	Disturbance of wildlife habitats, and noise-related problems?	X	–	–	–	
F	Destruction/Disruption of Land and Vegetation					
1.	Will the subproject lead to unplanned use of the infrastructure being developed?	X	–	–	–	
2.	Will the subproject lead to long-term or semi-	X	–	–	–	



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
	permanent destruction of soils in cleared areas not suited for agriculture?					
3.	Will the subproject lead to the interruption of subsoil and overland drainage patterns (in areas of cuts and fills)?	X	-	-	-	
4.	Will the subproject lead to landslides, slumps, slips and other mass movements in road cuts?	X	-	-	-	
5.	Will the subproject lead to erosion of lands receiving concentrated outflow carried by covered or open drains?	X	-	-	-	
6.	Will the subproject lead to health hazards and interference of plant growth adjacent to roads by dust raised and blown by vehicles?	X	-	-	-	
G	Cultural Property					
1.	Will the subproject have an impact on archaeological or historical sites, including historic urban areas?	-	-	X	-	<ul style="list-style-type: none"> • It will have a beneficial/ positive impact as illumination work will enhance attraction of this Peshawar Museum and thus it will encourage more tourists to visit. • Luminaries with LED technology is proposed which do not cast the deteriorating effect on the structure surfaces or its surroundings. Details are provided in the Annex-IV. • Special louvers are proposed along the fixtures to completely eliminate the light pollution and glare. • The technology is environment friendly and has no potential health risks with CE conformities. • The luminaries are proposed with the best



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						<p>efficiency of power factor of A++ rating and CRI of up to 90, best available globally.</p> <ul style="list-style-type: none"> • Most of the luminaries, planned to be used, have replaceable lamps; (unlike COB technology) without damaging the fixtures in long run. • Luminaries have been selected with such architectural profiles and installation mechanisms that they will have the negligible visual impact on the structure during day time. Their positions, angles and surface coatings have been carefully determined to mitigate their visual presence over the structure. The design documents have provided all the specifications Annex-IV.
2.	Will the subproject have an impact on religious monuments, structures and/or cemeteries?	X	-	-	-	<p>All drilling, electrification and related works will be carried out by properly trained and experienced workers for PCR sites.</p> <p>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.</p>
H	Expropriation and Social Disturbance					
1.	Will the subproject involve land expropriation or demolition of existing structures?	X	-	-	-	
2.	Will the subproject lead to induced settlements by workers and others causing social and economic	X	-	-	-	



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S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
	disruption?					
3.	Will the subproject lead to environmental and social disturbance by construction camps?	X	-	-	-	
4.	Will the sub- project require of tree cutting, if yes how many, location, pictures	X	-	-	-	



Table 1: Environmental and Social Screening (Site Related Issues)

S. No	Issues	Yes	No	Don't Know	Remarks
1.	Does the subproject require land acquisition? [Note: Fill in the land acquisition form if YES]	-	X	-	Peshawar Museum is under administrative control of Directorate of Archaeology and Museums, Khyber Pakhtunkhwa.
2.	Is the sub project located on land with contested ownership?	-	X	-	
3.	Will it enhance aesthetic and attraction of Building?	X			Yes, through this sub-project illumination of Peshawar Museum will be carried out for attracting tourists also during evenings and showcasing KP's heritage.
4.	Is the sub project located in an area with security problems	-	X	-	
5.	Is the subproject located in an area with designated natural reserves?	-	X	-	
6.	Is the subproject located in an area with designated cultural properties such as archaeological, historical and/or religious sites?	X	-	-	Yes, however the illumination work will be carried outside the premises of PCR.
7.	Is the project in a politically sensitive area?	-	X	-	
8.	Is the subproject in a polluted or contaminated area?	-	X	-	
9.	Is the subproject located in an area susceptible to landslides or erosion?	-	X	-	



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Department of Tourism, Culture, Sports, Archaeology, Museums & Youth Affairs

S. No	Issues	Yes	No	Don't Know	Remarks
10.	Is the subproject located in a densely populated area?	-	X	-	
11.	Is the subproject located on prime agricultural land?	-	X	-	
12.	Is the subproject located in an area of tourist importance?	X	-	-	Yes Peshawar Museum has largest collection of Gandhara Civilization and it is an important tourist site in Peshawar.
13.	Is the subproject located near a waste dump?	-	X	-	
14.	Is the subproject located in an area with a wastewater network?	-	X	-	
15.	Is there any plan of waste disposal system such as in future, if any wire or light needs to change?		X		DoA will ensure waste management through its own staff while proper warranty and replacement is added in bid documents. The current waste management practices will apply.



Summarized Screening Table

Type	<i>Physical</i>					<i>Biological</i>		<i>Social and socio economic</i>											
Activities	Soil Erosion/ Contamination	Air Quality	Water Surface Quality	Groundwater Quality	Water Availability and Consumption	Natural Vegetation	Wildlife	Displacement	Noise and Vibration Impacts	on Agriculture Impacts on Irrigation Network	Livestock Grazing	Compensation Issues	Safety Hazard Infrastructure	Utilities	Public Health	Aesthetic Value	Cultural Issues	Gender Issues	
Supply and installation of illumination equipment at Peshawar Museum	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

KEY: A for high risk, B for medium risk, and C for Minor/negligible risk.



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Department of Tourism, Culture, Sports, Archaeology, Museums & Youth Affairs

Sub- Project Categorization:

The proposed subproject is to be considered as category C, based on the magnitude and impacts listed in the above screening checklists. The proposed project screening indicates that the Environmental and Social Impacts are not significant and can be mitigated by Environmental Management Plan (EMP). This plan along with capacity building of staff involved will reduce the negative social and environmental impacts. The major impacts will be environmental health and safety during installation of illumination equipment and electrical wiring/ work, visual impact of the amenity (Outstanding Universal Value- OUV), energy efficiency related to the preferred type of technology and disposal at the end-of-life equipment.



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Annex-II

Environmental and Social Screening (E&S Screening)
Illumination of Sethi House Peshawar

Name of Sub-project	Supply, Installation, Testing & Commissioning of Illumination equipment for Illumination of various Archaeological sites in Khyber Pakhtunkhwa
Nature of Subproject	Tourism promotion through night tourism
Subproject Location	Sethi House, Peshawar
Coordinates	35.008367N, 70.008164E
Current Information for Environmental & Social Screening	KITE ESMF, site visit (dated: 20.04.2021), consultation with staff and visitors.



Environmental and Social Screening

S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
A	Zoning and Land Use Planning					
1.	Will the subproject affect land use zoning and planning or conflict with prevalent land use patterns?	X	-	-	-	DoA owned the Sethi House therefore the activity will not affect any land use pattern.
2.	Will the subproject involve significant land disturbance or site clearance?	X	-	-	-	No site clearance is involved.
3.	Will the subproject land be subject to potential encroachment by urban or industrial use or located in an area intended for urban or industrial development?	X	-	-	-	
B	Utilities and Facilities					
1.	Will the subproject require the setting up of ancillary facilities?	X	-	-	-	
2.	Will the subproject make significant demands on utilities and services?	-	X	-	-	Will require electricity for the illumination however the museum has its electricity back up including solar system to cater for the needs.
3.	Will the subproject require significant levels of accommodation or service amenities to support the workforce during construction	X	-	-	-	
C	Water and Soil Contamination					
1.	Will the subproject require large amounts of raw materials or construction materials?	X	-	-	-	No such activities/ construction materials are required during execution of this activity.
2.	Will the subproject generate large amounts of residual wastes, construction material waste or cause soil erosion?	-	X	-	-	Minor waste from d. Supply and erection PVC pipe e. Installation of light fixtures f. Drilling for minor holes for electricity wiring is expected. As a mitigation measure all waste produced



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						will be dumped in the solid waste bin in the premises by contractor, later to be disposed of by the municipality.
3.	Will the subproject result in potential soil or water contamination (e.g., from oil, grease and fuel from equipment yards)?	X	-	-	-	
4.	Will the subproject lead to an increase in suspended sediments in streams affected by road cut erosion, decline in water quality and increased sedimentation downstream?	X	-	-	-	
5.	Will the subproject involve the use of chemicals or solvents?	X	-	-	-	Deep Cycle Value Regulated Lead Acid Batteries (Dry cell batteries) shall be used that contain solid gel rather than liquid.
6.	Will the subproject lead to the destruction of vegetation and soil in the right-of-way, borrow pits, waste dumps, and equipment yards?	X	-	-	-	
7.	Will the subproject lead to the creation of stagnant water bodies in borrow pits, quarries, etc., encouraging for mosquito breeding and other disease vectors?	X	-	-	-	
D	Noise and Air Pollution Hazardous Substances					
1.	Will the subproject increase the levels of harmful air emissions?	X	-	-	-	
2.	Will the subproject increase ambient noise levels?	-	X	-	-	Minor noise disturbance is expected during drilling. As a mitigation measure contractor shall provide ear plugs to the workers.
3.	Will the subproject involve the storage, handling or transport of hazardous substances?	-	X	-	-	It is expected that e-waste will be in the form of expired batteries, and parts of damaged luminaries at the end of their life cycle



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						<p>can be generated. As a mitigation measure:</p> <ul style="list-style-type: none"> • Expired batteries (Dry cell batteries) shall be disposed off per govt procedures. • Luminaries contain types of materials that are also recyclable i.e, steel, plastic, extruded aluminum, cast iron and glass. • 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. The replaced lamps will be disposed off as per government procedures.
E	Fauna and Flora					
1.	Will the subproject involve the disturbance or modification of existing drainage channels (rivers, canals) or surface water bodies (wetlands, marshes)?	X	–	–	–	The subject activity has no direct effect on Fauna and Flora.
2.	Will the subproject lead to the destruction or damage of terrestrial or aquatic ecosystems or endangered species directly or by induced development?	X	–	–	–	
3.	Will the subproject lead to the disruption/destruction of wildlife through interruption of migratory routes,	X	–	–	–	
4.	Disturbance of wildlife habitats, and noise-related problems?	X	–	–	–	
F	Destruction/Disruption of Land and Vegetation					
1.	Will the subproject lead to unplanned use of the infrastructure being developed?	X	–	–	–	
2.	Will the subproject lead to long-term or semi-permanent destruction of soils in cleared areas not	X	–	–	–	



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
	suited for agriculture?					
3.	Will the subproject lead to the interruption of subsoil and overland drainage patterns (in areas of cuts and fills)?	X	-	-	-	
4.	Will the subproject lead to landslides, slumps, slips and other mass movements in road cuts?	X	-	-	-	
5.	Will the subproject lead to erosion of lands receiving concentrated outflow carried by covered or open drains?	X	-	-	-	
6.	Will the subproject lead to health hazards and interference of plant growth adjacent to roads by dust raised and blown by vehicles?	X	-	-	-	
G	Cultural Property					
1.	Will the subproject have an impact on archaeological or historical sites, including historic urban areas?	-	-	X	-	<ul style="list-style-type: none"> • It will have a beneficial/ positive impact as illumination work will enhance attraction of this Peshawar Museum and thus it will encourage more tourists to visit. • Luminaries with LED technology is proposed which do not cast the deteriorating effect on the structure surfaces or its surroundings. Details are provided in the Annex-IV. • Special louvers are proposed along the fixtures to completely eliminate the light pollution and glare. • The technology is environment friendly and has no potential health risks with CE conformities. • The luminaries are proposed with the best efficiency of power factor of A++ rating



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						<p>and CRI of up to 90, best available globally.</p> <ul style="list-style-type: none"> • Most of the luminaries, planned to be used, have replaceable lamps; (unlike COB technology) without damaging the fixtures in long run. • Luminaries have been selected with such architectural profiles and installation mechanisms that they will have the negligible visual impact on the structure during day time. Their positions, angles and surface coatings have been carefully determined to mitigate their visual presence over the structure. The design documents has provided all the specifications Annex-IV.
2.	Will the subproject have an impact on religious monuments, structures and/or cemeteries?	X	-	-	-	<p>All drilling, electrification and related works will be carried out by properly trained and experienced workers for PCR sites.</p> <p>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.</p>
H	Expropriation and Social Disturbance					
5.	Will the subproject involve land expropriation or demolition of existing structures?	X	-	-	-	
6.	Will the subproject lead to induced settlements by workers and others causing social and economic disruption?	X	-	-	-	



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S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
7.	Will the subproject lead to environmental and social disturbance by construction camps?	X	-	-	-	
8.	Will the sub- project require of tree cutting, if yes how many, location, pictures	X	-	-	-	



Table 1: Environmental and Social Screening (Site Related Issues)

S. No	Issues	Yes	No	Don't Know	Remarks
1.	Does the subproject require land acquisition? [Note: Fill in the land acquisition form if YES]	–	X	–	Sethi House is under administrative control of Directorate of Archaeology and Museums, Khyber Pakhtunkhwa.
2.	Is the sub project located on land with contested ownership?	–	X	–	
3.	Will it enhance aesthetic and attraction of Building?	X			Yes, through this sub-project illumination of Sethi House will be carried out for attracting tourists also during evenings and showcasing KP's heritage.
4.	Is the sub project located in an area with security problems	–	X	–	
5.	Is the subproject located in an area with designated natural reserves?	–	X	–	
6.	Is the subproject located in an area with designated cultural properties such as archaeological, historical and/or religious sites?	X	–	–	Yes, however the illumination work will be carried outside the premises of PCR.
7.	Is the project in a politically sensitive area?	–	X	–	
8.	Is the subproject in a polluted or contaminated area?	–	X	–	
9.	Is the subproject located in an area susceptible to landslides or erosion?	–	X	–	



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S. No	Issues	Yes	No	Don't Know	Remarks
10.	Is the subproject located in a densely populated area?	–	X	–	
11.	Is the subproject located on prime agricultural land?	–	X	–	
12.	Is the subproject located in an area of tourist importance?	X	–	–	Yes, Sethi House is ancestral residence of Sethi family and is known for its architect.
13.	Is the subproject located near a waste dump?	–	X	–	
14.	Is the subproject located in an area with a wastewater network?	–	X	–	
15.	Is there any plan of waste disposal system such as in future, if any wire or light needs to change?		X		DoA will ensure waste management through its own staff while proper warranty and replacement is added in bid documents. The current waste management practices will apply.



Summarized Screening Table

Type	<i>Physical</i>					<i>Biological</i>		<i>Social and socio economic</i>										
Activities	Soil Erosion/ Contamination	Air Quality	Surface Water Quality	Groundwater Quality	Water Availability and Consumption	Natural Vegetation	Wildlife	Blocked Access Routes and Vibration Impacts on Agriculture	Blocked Access Routes and Vibration Impacts on Irrigation Network	Blocked Access Routes and Vibration Impacts on Livestock Grazing Compensation Issues	Blocked Access Routes and Vibration Impacts on Safety Hazard Infrastructure Utilities Public Health	Aesthetic Value	Cultural Issues	Gender Issues				
Supply and installation of illumination equipment at Sethi House	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	

KEY: A for high risk, B for medium risk, and C for Minor/negligible risk.



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Sub- Project Categorization:

The proposed subproject is to be considered as category C, based on the magnitude and impacts listed in the above screening checklists. The proposed project screening indicates that the Environmental and Social Impacts are not significant and can be mitigated by Environmental Management Plan (EMP). This plan along with capacity building of staff involved will reduce the negative social and environmental impacts. The major impacts will be environmental health and safety during installation of illumination equipment and electrical wiring/ work, visual impact of the amenity (Outstanding Universal Value- OUV), energy efficiency related to the preferred type of technology and disposal at the end-of-life equipment.



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Annex-III

Environmental and Social Screening (E&S Screening) **Illumination of Western Gate, Gor Gathri Peshawar**

Name of Sub-project	Supply, Installation, Testing & Commissioning of Illumination equipment for Illumination of various Archaeological sites in Khyber Pakhtunkhwa
Nature of Subproject	Tourism promotion through night tourism
Subproject Location	Western Gate, Gor Gathri Peshawar
Coordinates	34.007867N, 71.558164E
Current Information for Environmental & Social Screening	KITE ESMF, site visit (dated: 20.04.2021), consultation with staff and visitors.



Environmental and Social Screening

S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
A	Zoning and Land Use Planning					
1.	Will the subproject affect land use zoning and planning or conflict with prevalent land use patterns?	X	-	-	-	DoA owns the Gor Gathri therefore the activity will not affect any land use pattern.
2.	Will the subproject involve significant land disturbance or site clearance?	X	-	-	-	No site clearance is involved.
3.	Will the subproject land be subject to potential encroachment by urban or industrial use or located in an area intended for urban or industrial development?	X	-	-	-	
B	Utilities and Facilities					
1.	Will the subproject require the setting up of ancillary facilities?	X	-	-	-	
2.	Will the subproject make significant demands on utilities and services?	-	X	-	-	Will require electricity for the illumination however the museum has its electricity back up including solar system to cater for the needs.
3.	Will the subproject require significant levels of accommodation or service amenities to support the workforce during construction	X	-	-	-	
C	Water and Soil Contamination					
1.	Will the subproject require large amounts of raw materials or construction materials?	X	-	-	-	No such activities/ construction materials are required during execution of this activity.
2.	Will the subproject generate large amounts of residual wastes, construction material waste or cause soil erosion?	-	X	-	-	Minor waste from g. Supply and erection PVC pipe h. Installation of light fixtures i. Drilling for minor holes for electricity wiring is expected. As a mitigation measure all waste produced



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						will be dumped in the solid waste bin in the premises by contractor, later to be disposed of by the municipality.
3.	Will the subproject result in potential soil or water contamination (e.g., from oil, grease and fuel from equipment yards)?	X	-	-	-	
4.	Will the subproject lead to an increase in suspended sediments in streams affected by road cut erosion, decline in water quality and increased sedimentation downstream?	X	-	-	-	
5.	Will the subproject involve the use of chemicals or solvents?	X	-	-	-	Deep Cycle Value Regulated Lead Acid Batteries (Dry cell batteries) shall be used that contain solid gel rather than liquid.
6.	Will the subproject lead to the destruction of vegetation and soil in the right-of-way, borrow pits, waste dumps, and equipment yards?	X	-	-	-	
7.	Will the subproject lead to the creation of stagnant water bodies in borrow pits, quarries, etc., encouraging for mosquito breeding and other disease vectors?	X	-	-	-	
D	Noise and Air Pollution Hazardous Substances					
1.	Will the subproject increase the levels of harmful air emissions?	X	-	-	-	
2.	Will the subproject increase ambient noise levels?	-	X	-	-	Minor noise disturbance is expected during drilling. As a mitigation measure contractor shall provide ear plugs to the workers.
3.	Will the subproject involve the storage, handling or transport of hazardous substances?	-	X	-	-	It is expected that e-waste will be in the form of expired batteries, and parts of damaged luminaries at the end of their life cycle



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						<p>can be generated. As a mitigation measure:</p> <ul style="list-style-type: none"> • Expired batteries (Dry cell batteries) shall be disposed off per govt procedures. • Luminaries contain types of materials that are also recyclable i.e, steel, plastic, extruded aluminum, cast iron and glass. • 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. The replaced lamps will be disposed off as per government procedures.
E	Fauna and Flora					
5.	Will the subproject involve the disturbance or modification of existing drainage channels (rivers, canals) or surface water bodies (wetlands, marshes)?	X	–	–	–	The subject activity has no direct effect on Fauna and Flora.
6.	Will the subproject lead to the destruction or damage of terrestrial or aquatic ecosystems or endangered species directly or by induced development?	X	–	–	–	
7.	Will the subproject lead to the disruption/destruction of wildlife through interruption of migratory routes,	X	–	–	–	
8.	Disturbance of wildlife habitats, and noise-related problems?	X	–	–	–	
F	Destruction/Disruption of Land and Vegetation					
7.	Will the subproject lead to unplanned use of the infrastructure being developed?	X	–	–	–	
8.	Will the subproject lead to long-term or semi-permanent destruction of soils in cleared areas not	X	–	–	–	



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
	suited for agriculture?					
9.	Will the subproject lead to the interruption of subsoil and overland drainage patterns (in areas of cuts and fills)?	X	-	-	-	
10.	Will the subproject lead to landslides, slumps, slips and other mass movements in road cuts?	X	-	-	-	
11.	Will the subproject lead to erosion of lands receiving concentrated outflow carried by covered or open drains?	X	-	-	-	
12.	Will the subproject lead to health hazards and interference of plant growth adjacent to roads by dust raised and blown by vehicles?	X	-	-	-	
G	Cultural Property					
3.	Will the subproject have an impact on archaeological or historical sites, including historic urban areas?	-	-	X	-	<ul style="list-style-type: none"> It will have a beneficial/ positive impact as illumination work will enhance attraction of this Gor Gathri site and thus it will encourage more tourists to visit. Luminaries with LED technology is proposed which do not cast the deteriorating effect on the structure surfaces or its surroundings. Details are provided in the Annex-IV. Special louvers are proposed along the fixtures to completely eliminate the light pollution and glare. The technology is environment friendly and has no potential health risks with CE conformities. The luminaries are proposed with the best efficiency of power factor of A++ rating



S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
						and CRI of up to 90, best available globally. <ul style="list-style-type: none"> • Most of the luminaries, planned to be used, have replaceable lamps; (unlike COB technology) without damaging the fixtures in long run. • Luminaries have been selected with such architectural profiles and installation mechanisms that they will have the negligible visual impact on the structure during day time. Their positions, angles and surface coatings have been carefully determined to mitigate their visual presence over the structure. The design documents have provided all the specifications Annex-IV.
4.	Will the subproject have an impact on religious monuments, structures and/or cemeteries?	X	-	-	-	All drilling, electrification and related works will be carried out by properly trained and experienced workers for PCR sites. 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.
H	Expropriation and Social Disturbance					
9.	Will the subproject involve land expropriation or demolition of existing structures?	X	-	-	-	
10.	Will the subproject lead to induced settlements by workers and others causing social and economic disruption?	X	-	-	-	



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S. No	Issues	None	Minor/ Small	Moderate/ Medium	Significant / Large	Remarks/ Mitigation Measures (If required)
11.	Will the subproject lead to environmental and social disturbance by construction camps?	X	-	-	-	
12.	Will the sub- project require of tree cutting, if yes how many, location, pictures	X	-	-	-	



Table 1: Environmental and Social Screening (Site Related Issues)

S. No	Issues	Yes	No	Don't Know	Remarks
1.	Does the subproject require land acquisition? [Note: Fill in the land acquisition form if YES]	–	X	–	Gor Gathri is under administrative control of Directorate of Archaeology and Museums, Khyber Pakhtunkhwa.
2.	Is the sub project located on land with contested ownership?	–	X	–	
3.	Will it enhance aesthetic and attraction of Building?	X			Yes, through this sub-project illumination of Western Gate, Gor Gathri will be carried out for attracting tourists also during evenings and showcasing KP's heritage.
4.	Is the sub project located in an area with security problems	–	X	–	
5.	Is the subproject located in an area with designated natural reserves?	–	X	–	
6.	Is the subproject located in an area with designated cultural properties such as archaeological, historical and/or religious sites?	X	–	–	Yes, however the illumination work will be carried outside the premises of PCR.
7.	Is the project in a politically sensitive area?	–	X	–	
8.	Is the subproject in a polluted or contaminated area?	–	X	–	
9.	Is the subproject located in an area susceptible to landslides or	–	X	–	



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S. No	Issues	Yes	No	Don't Know	Remarks
	erosion?				
10.	Is the subproject located in a densely populated area?	–	X	–	
11.	Is the subproject located on prime agricultural land?	–	X	–	
12.	Is the subproject located in an area of tourist importance?	X	–	–	Gor Gathri has great historic significance in Peshawar civilization. This stie of start of Heritage Trail which is becoming an important tourist site in Peshawar.
13.	Is the subproject located near a waste dump?	–	X	–	
14.	Is the subproject located in an area with a wastewater network?	–	X	–	
15.	Is there any plan of waste disposal system such as in future, if any wire or light needs to change?		X		DoA will ensure waste management through its own staff while proper warranty and replacement is added in bid documents. The current waste management practices will apply.



Summarized Screening Table

Type	<i>Physical</i>					<i>Biological</i>	<i>Social and socio economic</i>											
Activities	Soil Erosion/ Contamination	Air Quality	Surface Water Quality	Groundwater Quality	Water Availability and Consumption	Natural Vegetation	Wildlife	Blocked Access Routes and Vibration Impacts on Agriculture	Impacts on Irrigation Network	Livestock Grazing Compensation Issues	Safety Hazard Infrastructure Utilities	Public Health	Aesthetic Value	Cultural Issues	Gender Issues			
Supply and installation of illumination equipment at Western Gate, Gor Gathri	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C			

KEY: A for high risk, B for medium risk, and C for Minor/negligible risk.



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Sub- Project Categorization:

The proposed subproject is to be considered as category C, based on the magnitude and impacts listed in the above screening checklists. The proposed project screening indicates that the Environmental and Social Impacts are not significant and can be mitigated by Environmental Management Plan (EMP). This plan along with capacity building of staff involved will reduce the negative social and environmental impacts. The major impacts will be environmental health and safety during installation of illumination equipment and electrical wiring/ work, visual impact of the amenity (Outstanding Universal Value- OUV), energy efficiency related to the preferred type of technology and disposal at the end-of-life equipment.



Annex-IV Specifications & Drawings:

1. Illumination of Peshawar Museum Specifications

S. No.	Description
1	PIPES & HANHOLES
	Supply and erection PVC pipe for recessed wiring (main & sub main) purpose including bends, tees, specials etc in floor, wall and pavement
2	CABLES
	Supply, installation, Testing & Commissioning of cables of given sizes of Pakistan cables, Allied cables, CopperGat cables, FR Cables or equivalent as per manufacturer's list, approved in PVC conduits/ pipe of appropriate size or pvc ducts as approved in accordance with the situation. Cables lugs/thimbles, brass glands, nuts & bolts to be included.
3	DISTRIBUTION BOARDS
a)	Supply, Installation, connecting, testing & commissioning of Floor mounted submain distribution board SMDB (Block 7-11) power & HVAC complete with all metering with indication lamps complete in all respects.
b)	Supply, Installation of Short-circuit ratings to IEC 947-2, Icuta at 415 V All components (ELCBs, Contractors et.) with backup protection & incoming MCB suitable backup protection of ELECBs DBs of incoming size 100A or less may be Divided with cascading
4	LIGHT FIXTURES
	Supply & installation testing & commissioning of light fixtures as described below, including foundations, hangers, terminations, glands etc. complete in all respect.
b)	In-ground luminaire, European Make, Wall Washer LVD, EMC, CE LED Type: Cree XT-E In-ground luminaires 2260 lm 350mA on-off driver IP67 IK10 15/30° 316 Stainless Steel frame Tempered glass Diffuser Stainless steel connection parts Max weight resistance : 3000 Kg 3000K 220-240V / 50-60Hz
c)	Wall Mounted, European Make, Wall Washer CB PBS LVD CE O07.WL.16035 Wall Washer 1424 lm on-off driver IP66 IK08 15/30° Aluminum Profile with double layer polyester powder paint Mechanical Aiming Lock Stainless steel connection parts Provided with IP68 Sockets 3000K 220-240V / 50-60Hz
d)	In-ground luminaire European Make, 1 HI/HST-DE 950 lm IP 65 30° Inox - 201 ground recessed with housing Max weight Resistance : 600 Kg 3000K 220-240V / 50-60 Hz with GU 10 Lamp
e)	In-ground luminaire European Make, 1 HI/HST-DE 990 lm IP 67 10° Inox mat ground recessed with housing Max weight Resistance : 600 Kg 3200K 220-240V / 50-60 Hz
f)	Surface Over-ground luminaire European Make, 1 HI/HST-DE 480 lm with blade cutting effect IP 65 180° 3000K 220-240V / 50-60 Hz
g)	High performance Junction Boxes, LED, IP 68
h)	High performance Wall Washer, LED, 50 Watt, Deep Yellow, Chinese Make
i)	High performance Wall Washer, LED, 100-Watt, Deep Yellow, Chinese Make
j)	High performance Wall Washer, LED, 10 Watt, Deep Yellow, 180 degree Beam Angle, IP 65, Chinese Make
k)	High performance Wall Washer, LED, 05 Watt, Deep Yellow, 90 degree Beam Angle, IP 65, Chinese Make
l)	Narrow Beam High Performance Flood, LED 150 W, 10° 3200 K 220-240 V 50-60 Hz with cross arms
m)	High Performance, Powder Coated with cross arms, 5' Poles as per drawing



2. Illumination of Sethi House

S. No.	Description
1	<u>PIPES & HANHOLES</u>
	Supply and erection PVC pipe for recessed wiring (main & sub main) purpose including bends, tees, specials etc in floor, wall and pavement
2	<u>CABLES</u>
	Supply, installation, Testing & Commissioning of cables of given sizes of Pakistan cables, Allied cables, CopperGat cables, FR Cables or equivalent as per manufacturer's list, approved in PVC conduits/ pipe of appropriate size or pvc ducts as approved in accordance with the situation. Cables lugs/thimbles, brass glands, nuts & bolts to be included in cost complete in all respect.
3	<u>DISTRIBUTION BOARDS</u>
a)	Supply, Installation, connecting, testing & commissioning of Floor mounted following submain distribution board SMDB (Block 7-11) power & HVAC complete with all metering with indication lamps complete in all respects.
b)	Supply, Installation of Short-circuit ratings to IEC 947-2, Icuta at 415 V All components (ELCBs, Contractors et.) with backup protection & incoming MCB suitable backup protection of ELCBs DBs of incoming size 100A or less may be Divided with cascading
4	<u>LIGHT FIXTURES</u>
	Supply & installation testing & commissioning of light fixtures as described below, including foundations, hangers, terminations, glands etc. complete in all respect.
b)	Celing Mounted, European Make, Tracklight with rail system Track system: 4 lines - 3 Circuits Polyester Powder Coated Mechanical Aiming Lock 711 lm 3000K 220-240V / 50-60Hz
c)	Wall Mounted, European Make, Hanging Fixture Polyester Powder Painted Mechanical Aiming Lock IP 54 E 27 CFL/ LED Lamp 2700K 220-240V / 50-60Hz
d)	In-ground luminaire European Make, 1 HI/HST-DE 950 lm IP 65 30° Inox - 201 ground recessed with housing Max weight Resistance: 600 Kg 3000K 220-240V / 50-60 Hz with GU 10 Lamp
e)	In-ground luminaire European Make, 1 HI/HST-DE 810 lm IP 68 15° Surface over ground with housing Max weight Resistance: 600 Kg 3000K 220-240V / 50-60 Hz
f)	Surface Over-ground luminaire European Make, 1 HI/HST-DE 480 lm with blade cutting effect IP 65 180° 3000K 220-240V / 50-60 Hz
g)	High performance Junction Boxes, LED, IP 68
i)	High performance Wall Washer, LED, 100-Watt, Deep Yellow, Chinese Make



j)	Wall Mounted, European Make, Hanging Fixture Polyester Powder Painted Mechanical Aiming Lock IP 65 E 27 CFL/ LED Lamp 2700K 220-240V / 50-60Hz
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3. Illumination of Western Gate Gor Gathri

S.No.	Description
1	<u>PIPES & HANHOLES</u>
	Supply and erection PVC pipe for recessed wiring (main & sub main) purpose including bends, tees, specials etc in floor, wall and pavement
2	<u>CABLES</u>
	Supply, installation, Testing & Commissioning of cables of given sizes of Pakistan cables, Allied cables, CopperGat cables, FR Cables or equivalent as per manufacturer's list, approved in PVC conduits/ pipe of appropriate size or pvc ducts as approved in accordance with the situation. Cables lugs/thimbles, brass glands, nuts & bolts to be included in cost complete in all respect.
3	<u>DISTRIBUTION BOARDS</u>
a)	Supply, Installation, connecting, testing & commissioning of Floor mounted following submain distribution board SMDB (Block 7-11) power & HVAC complete with all metering with indication lamps complete in all respects.
b)	Supply, Installation of Short-circuit ratings to IEC 947-2, Icuta at 415 V All components (ELCBs, Contractors et.) with backup protection & incoming MCB suitable backup protection of ELECBs DBs of incoming size 100A or less may be Divided with cascading
4	<u>LIGHT FIXTURES</u>
	Supply & installation testing & commissioning of light fixtures as described below, including foundations, hangers terminations, glands etc. complete in all respect.
a)	In-ground luminaire European Make, 1 HI/HST-DE 950 lm IP 65 30° Inox - 201 ground recessed with housing Max weight Resistance : 600 Kg 3000K 220-240V / 50-60 Hz with GU 10 Lamp
	In-ground luminaire European Make, 1 HI/HST-DE 660 lm IP 65 30° Inox - 201 ground recessed with housing Max weight Resistance : 600 Kg 3000K 220-240V / 50-60 Hz with GU 10 Lamp
b)	In-ground luminaire, European Make, Wall Washer LVD, EMC, CE LED Type: Cree XT-E In-ground luminaires 3443 lm 350mA on-off driver IP67 IK10 15° 316 Stainless Steel frame Tempered glass Diffuser Stainless steel connection parts Max weight resistance : 3000 Kg 3000K 220-240V / 50-60Hz
c)	Narrow Beam High Performance Flood, LED 150 W, 10° 3200 K 220-240 V 50-60 Hz with cross arms
	High performance Wall Washer, LED, 50 Watt, Deep Yellow, Chinese Make
e)	High performance Junction Boxes, IP 67

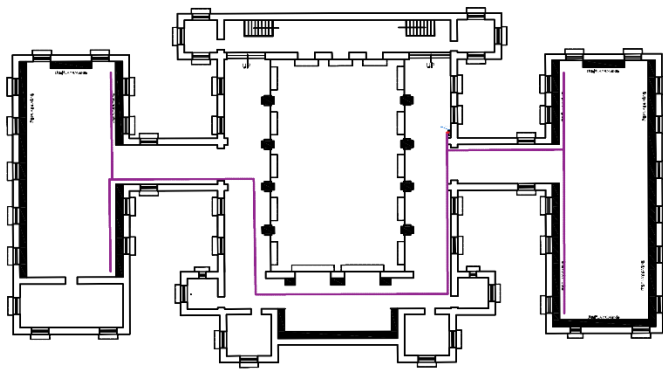


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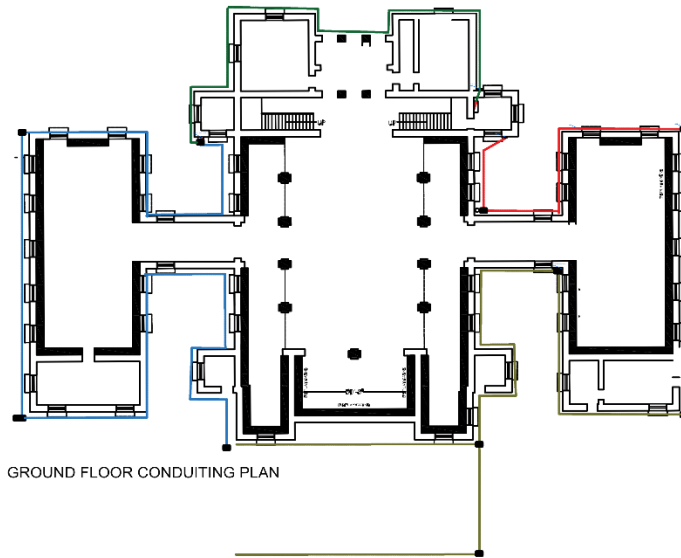
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PROJECT MANAGEMENT UNIT (DoT)

Department of Tourism, Culture, Sports, Archaeology, Museums & Youth Affairs

ELECTRICAL CONDUITING DISTRIBUTION PLAN OF MUSEUM



ROOF CONDUITING PLAN



GROUND FLOOR CONDUITING PLAN

LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHTS
	Electrical Conduiting From SDB 1 to Light Points	IN-FLOOR
	Electrical Conduiting From SDB 2 to Light Points	IN-FLOOR
	Electrical Conduiting From SDB 3 to Light Points	IN-FLOOR
	Electrical Conduiting From SDB 4 to Light Points	IN-FLOOR
	Electrical Conduiting From SDB 5 to Light Points	IN-FLOOR
	SUB DISTRIBUTION BOARD	1200
	LV Panel	1200
	Hand Hole 11"X11"X11"	IN-FLOOR

Peshawar Museum

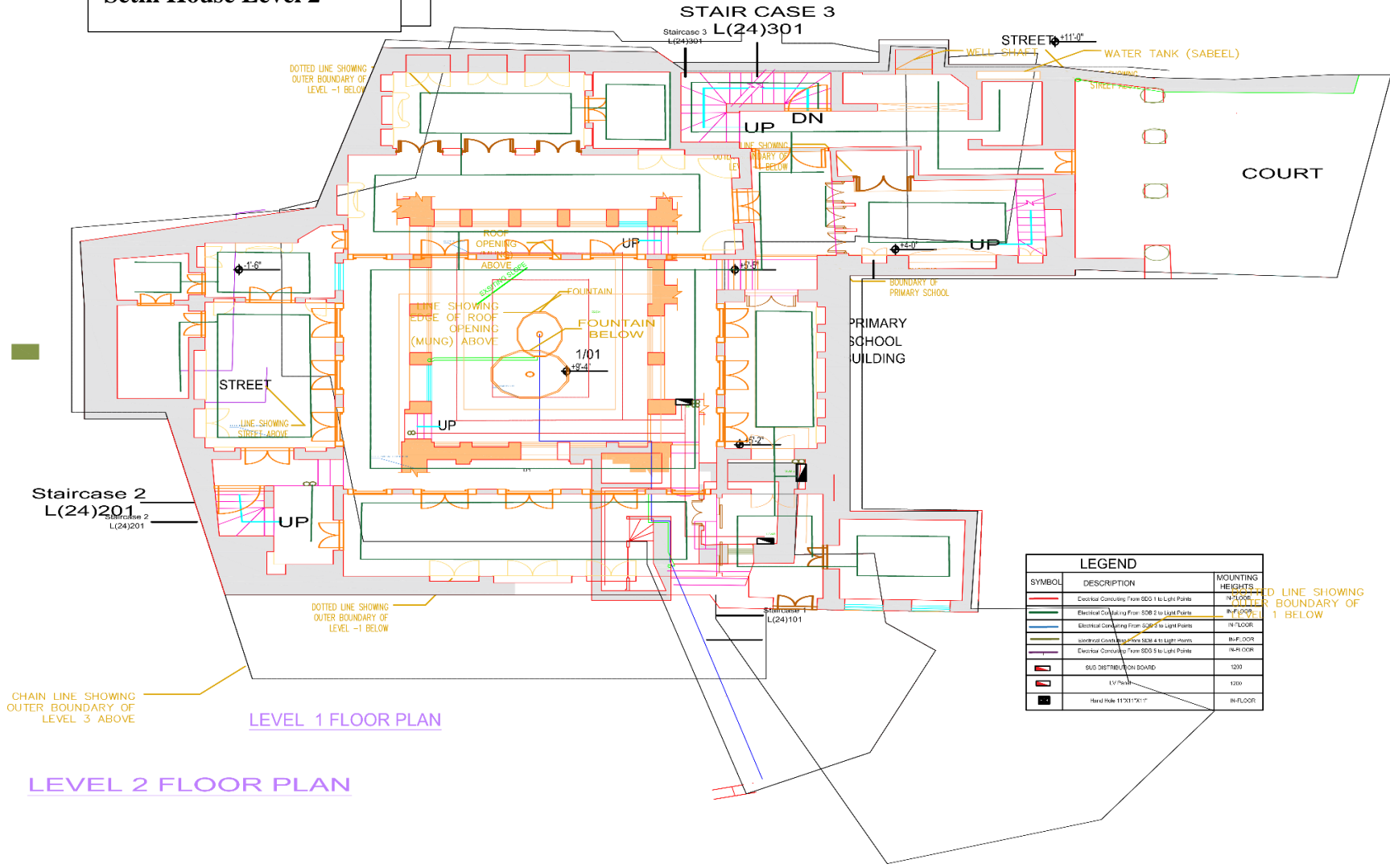


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Sethi House Level 2



LEVEL 1 FLOOR PLAN

LEVEL 2 FLOOR PLAN

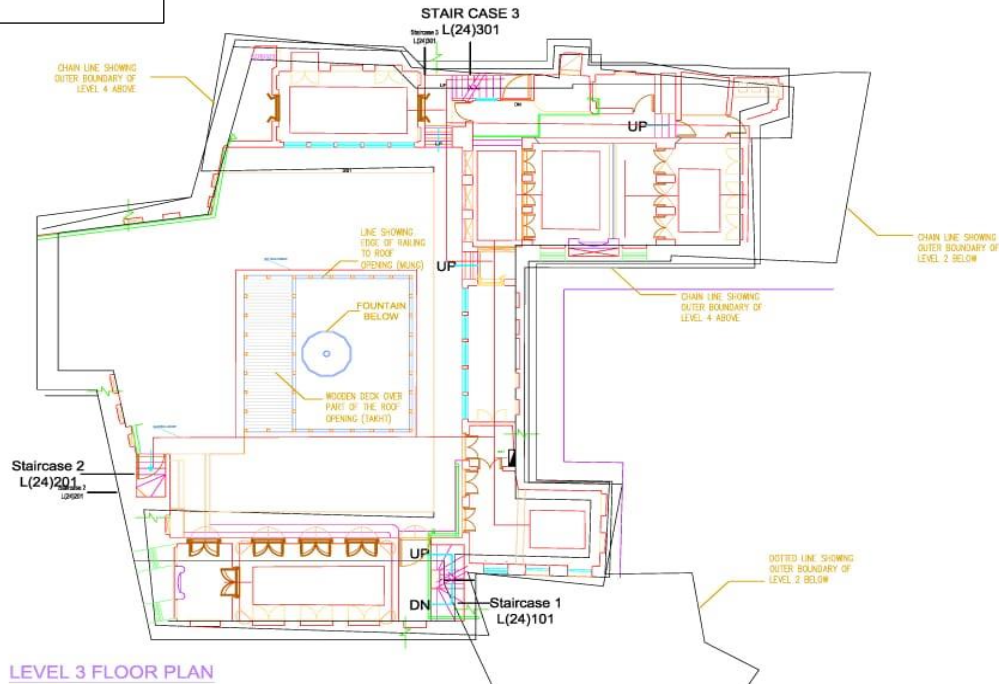
LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHTS
	Electrical Conduiting From SDB 1 to Light Points	IN FLOOR
	Electrical Conduiting From SDB 2 to Light Points	IN FLOOR
	Electrical Conduiting From SDB 3 to Light Points	IN FLOOR
	Electrical Conduiting From SDB 4 to Light Points	IN FLOOR
	Electrical Conduiting From SDB 5 to Light Points	IN FLOOR
	SDB DISTRIBUTION BOARD	1200
	Hand Hole 11"X11"X1"	1200
	Hand Hole 11"X11"X1"	IN-FLOOR

DOTTED LINE SHOWING
OUTER BOUNDARY OF
LEVEL -1 BELOW


CHAIN LINE SHOWING
OUTER BOUNDARY OF
LEVEL 3 ABOVE



Sethi House Level 3



LEVEL 3 FLOOR PLAN

 <p>KHYBER PAKHTUNKHWA INTEGRATED TOURISM DEVELOPMENT PROJECT</p>		<p>Architect KITE</p>	<p>Director DoA</p>	<p>PD KITE DoT</p>	<p>Layout Plan Illumination of Archaeological Sites Sethi House</p>
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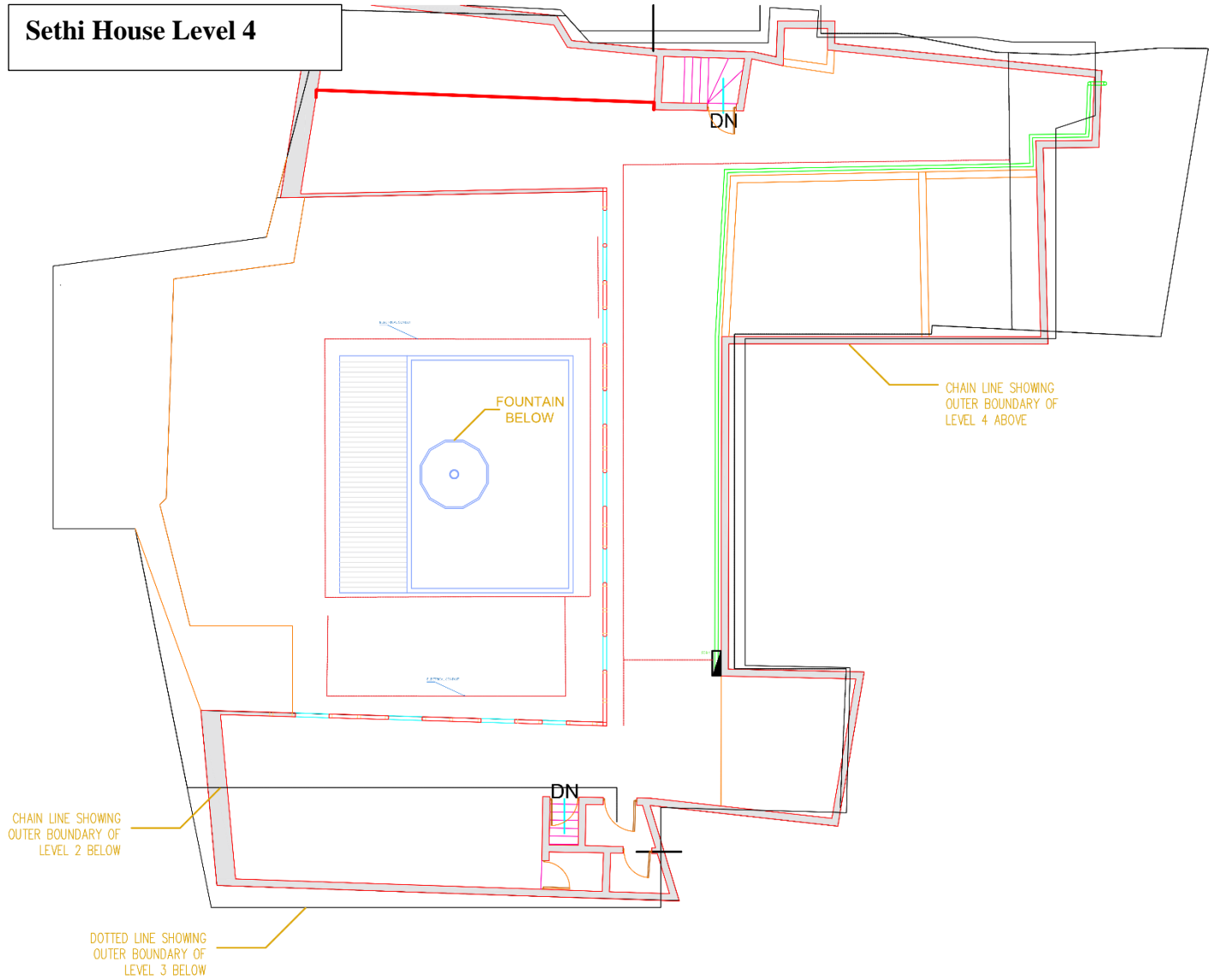


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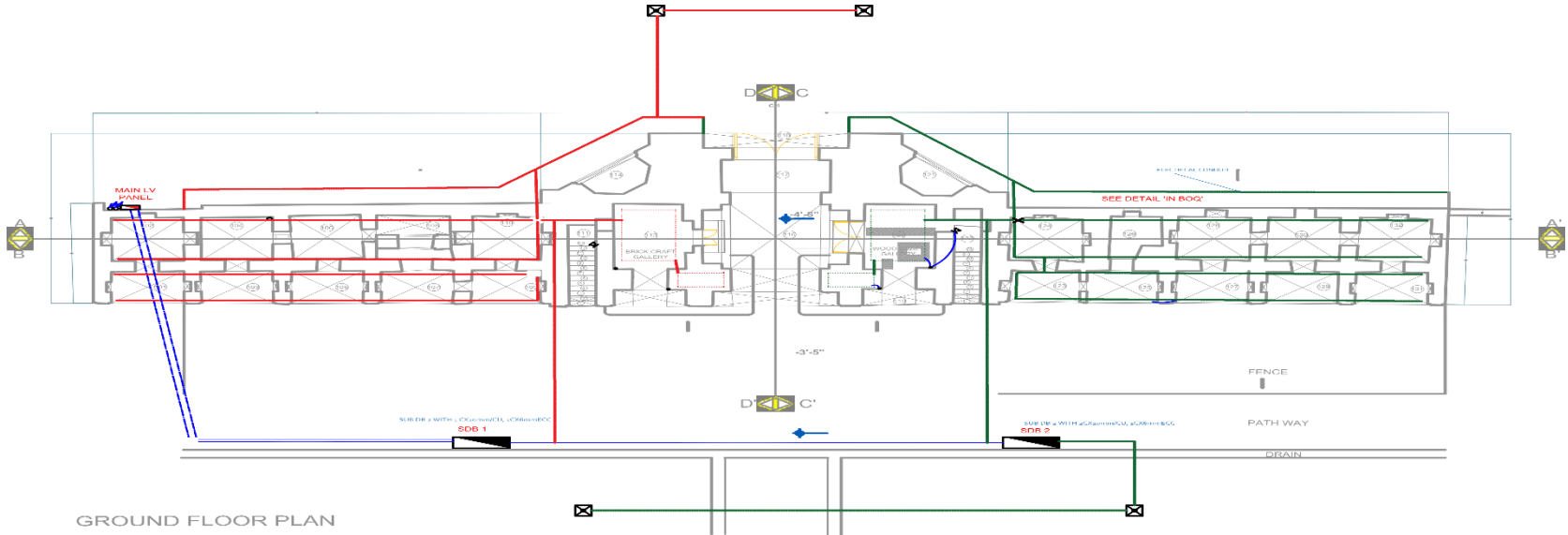
Sethi House Level 4



LEVEL 4 TOP FLOOR PLAN



Western Gate Gor Gathri



GROUND FLOOR PLAN

LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHTS
	Electrical Conduiting From SDB 1 to Light Points	IN-FLOOR
	Electrical Conduiting From SDB 2 to Light Points	IN-FLOOR
	Electrical Conduiting From SDB 3 to Light Points	IN-FLOOR
	SUB DISTRIBUTION BOARD	IN-FLOOR
	LV Panel	IN-FLOOR
	Hand Hole 11"X11"X11"	1200

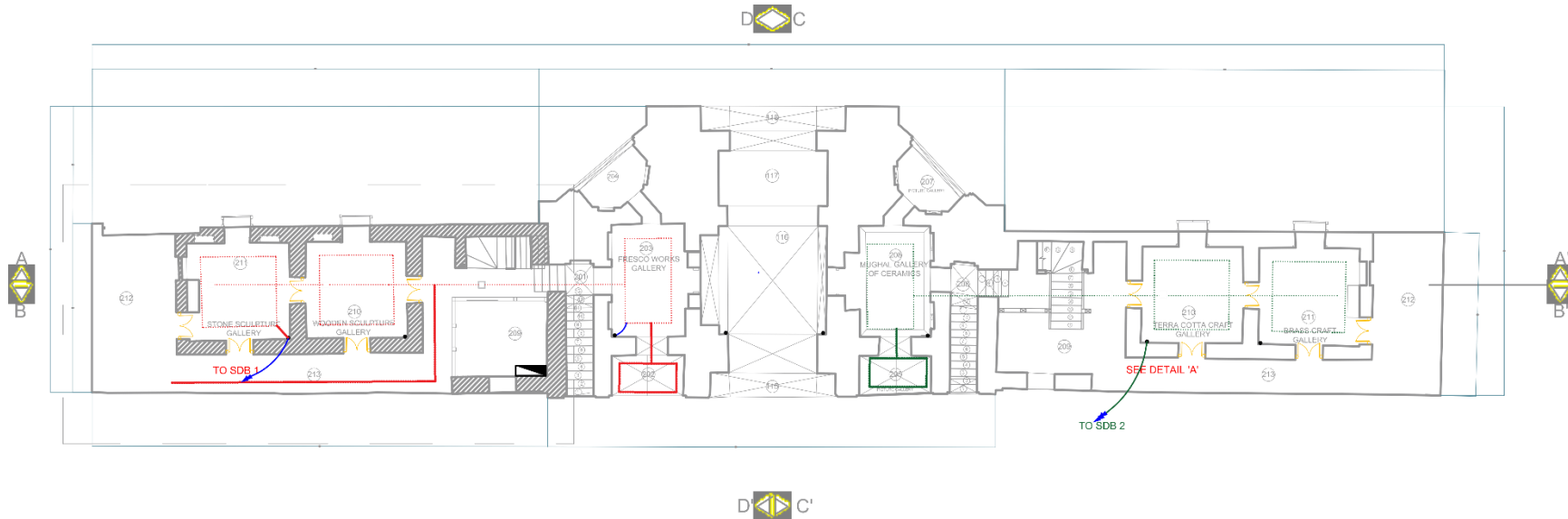


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Western Gate Gor Gathri



FIRST FLOOR PLAN

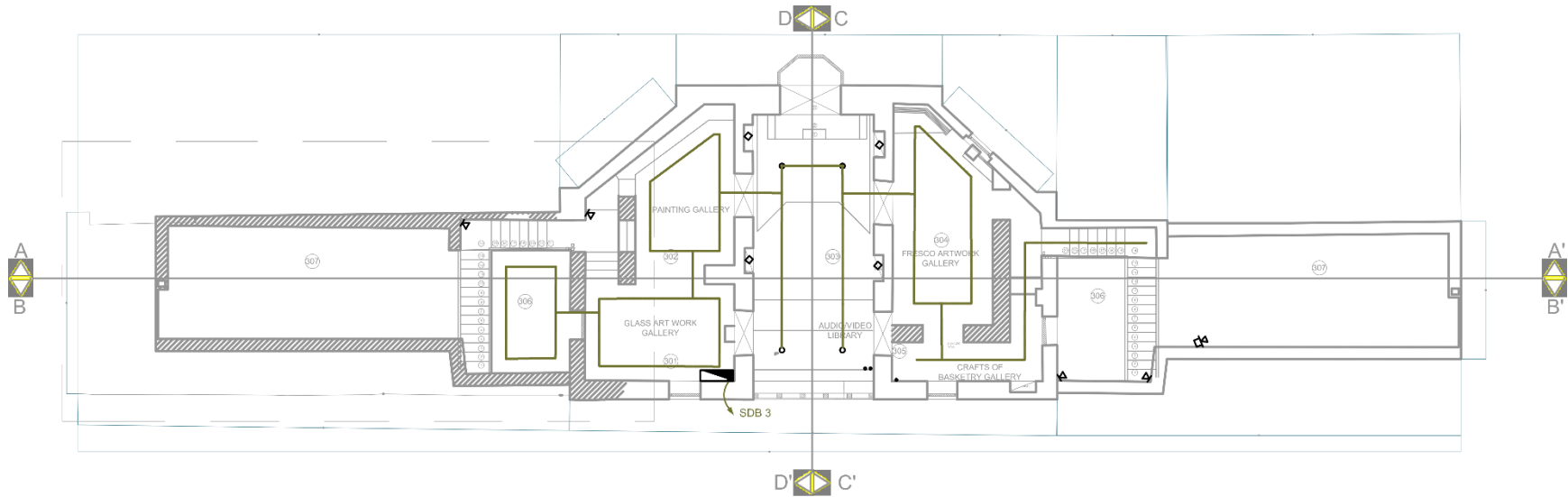


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Western Gate Gor Gathri



SECOND FLOOR PLAN



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Annex-V: Site Photographs:



Peshawar Museum



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Peshawar Museum



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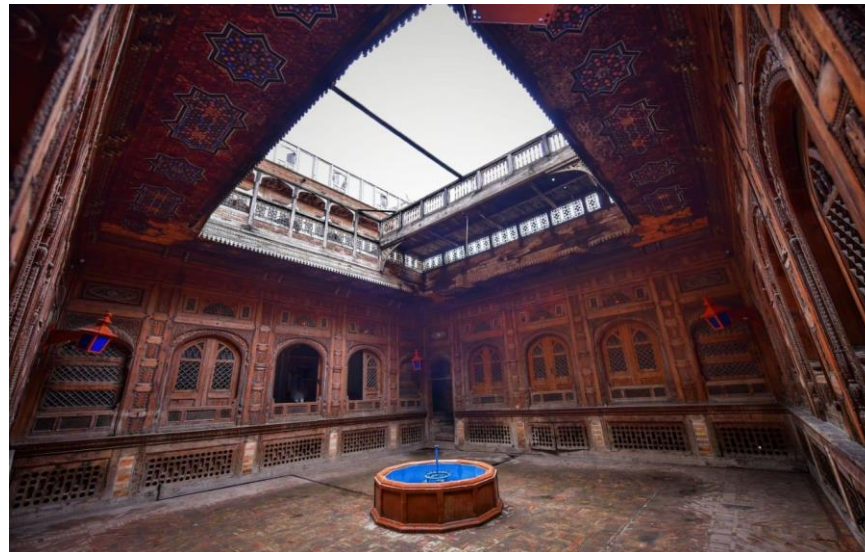
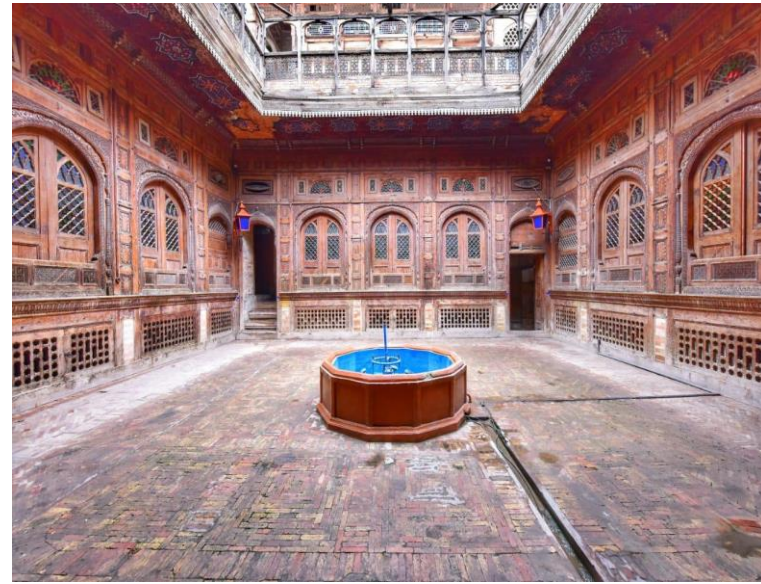


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Sethi House





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Western Gate Gor Gathri



Annex-VI Consultative Meeting Attendance List:

Environmental and Social Screening

Consultation meeting with: Farooq Shah (Archaeology department) Archaeological Dept
Location of consultation: Peshawar Museum
Date of consultation: 20-4-21
Name of Sub project: Illumination of Peshawar Museum

S.No	Name	Designation	Organization	Signature
1	TAHSEEN ULLAH	Conservation Assistant	Arch & Museum	
2	M-Adnan	Work supervisor	Archaeology Dept	
3	Sikander Khan	Archaeological Engineer	DOAM	
4	Noor Khan	ARO	Pesh Museum	
5	Khalid Khan	N. Qasaid.	Pesh Museum	
6	Izhar Ali	N. Qasaid.	Pesh Museum	
7	Abu-Baker	Peon	Archaeology	
8				
9				
10				



Environmental and Social Screening

Consultation meeting with: Farooq Shah (Archaeology deptt.) Archaeological Deptt
Location of consultation: Sethi House
Date of consultation: 20-4-21
Name of Sub project: Elimination of Sethi House.

S.No	Name	Designation	Organization	Signature
1	Mazhar Abbas	Technical Assst	Archaeology	(M) Abbas
2	Zahoor	Sweeper	Archaeology	ZAHHEER
3	Faheem	N. Qasid	Archaeology	saif
4	Shehzad	Porter	Archaeology	Shehzad
5	Haider Gul	Visitor	—	Haider Gul
6	Azif Ahmad	Visitor	—	Azif
7				
8				
9				
10				



Environmental and Social Screening

- Consultation meeting with: Farooq Shah (Archaeology Deptt) Archaeological
- Location of consultation: Ghor Khatri, Western Gate
- Date of consultation: 20-4-21
- Name of Sub project: Illumination of Ghor Khatri, Western Gate.

S.No	Name	Designation	Organization	Signature
1	Syed Ashfaq	Peon	Archaeology	[Signature]
2	Kamran	Sweeper	Archaeology	[Signature]
3	Awais	Chowkidar	Archaeology	[Signature]
4	Kamran	Chowkidar	Archaeology	[Signature]
5	Masood Ahmad	N. David	Archaeology	[Signature]
6	Sameer Khan	Muzm Attendant	Archaeology	[Signature]
7	M. Arif	AC	Archaeology	[Signature]
8	Sabaz Ali	Visitor	-	[Signature]
9				
10				



Annex-VII Emergency Preparedness and Response Plan (EPRP)

Purpose of this EPRP is to ensure that any emergency situation arising during electrical works and installations as well as implementation are catered for. This plan is meant to be reviewed annually and updated as and when needed to incorporate any additional protection measures as per situation.

Implementation Arrangements: A Site Main Controller along with a Control Center and First Aid Group will be designated and notified for the implementation of this EPRP onsite.

Refresher training and fire drills will also be conducted on a monthly basis.

Working groups will be established/referred to as follows:

Emergency Control Centre (ECC)

The emergency control centre shall be formulated in case of emergency situations by the DoA. The ECC shall be chaired by the Archaeological Engineer and will have representatives from Police, Rescue 1122, and DoA. The ECC shall perform the following functions:

- Co-ordinate the acquisition, distribution and scheduling of various modes of transport in event of an emergency for the purpose of transporting persons and/or supplies, as required;
- Determine if additional transport is required for evacuation or transport of persons and/or supplies;
- Discontinue visitation services, or when continuation of tourist services, constitutes a hazard to public safety within an emergency area;
- Disperse people not directly connected with the operations who by their presence are considered to be in danger or whose presence hinders in any way the efficient functioning of emergency operations;
- Authorize the evacuation of site within an emergency area which are themselves considered to be dangerous or in which the occupants are considered to be in danger from some other source; • Authorize casualty collection and evacuation in support of emergency health care authorities;
- Coordinate with other departments such as Police, Fire Department etc.
- Arrange for services and equipment from local agencies such as private contractors, volunteer agencies etc.;
- Arrange assistance from senior levels of Government as per requirements.

The following information and equipment shall be available at ECC:

- Intercom, telephone
- P and T telephone
- Breathing apparatus
- Fire suit/ gas tight goggles/ gloves/ helmets
- Hand tools, wind direction/ velocities indications



- Public address megaphone, hand bell, telephone directories (internal, P and T)
- Emergency lamp/ torch light/ batteries
- Emergency shut-down procedures
- List of key personnel and list of Emergency Coordinators
- Duties of key personnel
- Address with telephone numbers and key personnel, emergency coordinator, essential employees.
- Important address and telephone numbers including Government agencies, neighboring sources of help, outside experts, electrical fact sheets, population details

Activity	Responsibility/ Mitigation
In Case Of Emergency, First Response	
Who to inform?	Rescue 1122, Fire Brigade, Police, Hospital& DOAM
Who will Inform?	Site Main Controller
Name of Site Main Controller (Site In-charge)	
Signature of Site Main Controller	
EMERGENCY CONTROL PROCEDURES	<p>For Natural Calamity: In the event of occurrence of natural calamity during the electrical installations, all work will be suspended. In order to minimize losses/ damages during heavy rains the inventory of material storage at site will be kept to a minimum during rainy period i.e. Mid-July to Mid-August.</p> <p>For Hazard: The onset of emergency will in all probability commence with a major fire or explosion and shall be detected by the member of staff on duty at subproject site. If located by a staff member on duty, s/he (as per site emergency procedure of which he is adequately briefed) will go to the nearest fire alarm call point, break glass and trigger off the fire alarms. S/He will also try to inform about location and nature of fire/ accident to the Site Main Controller on mobile phone.</p> <p>The following key activities will immediately take place to intercept and take control of emergency: • Rescue 1122 will arrive at the site of incident with fire-fighting controls • Site Main Controller will commence his role from the Control Centre • The First Aid Group will take care of injured • Site Main Controller will be directing and deciding a wide range of issues in accordance with the situation at hand. In particular Site Main Controller has to decide and direct: • Whether firefighting and first aid groups require</p>



	<p>reinforcement of man power and facilities • Whether the site is to be shut down or more importantly kept running • Respond to any large size complaints from outside public and to assess an offsite impact arising out of the onsite emergency. • When the incident has eventually been brought under control as declared by the firefighting group, the Site Main Controller shall visit himself personally for: • An assessment of total damage and prevailing conditions with particular attention to possibility of re escalation of emergency, which might of the time being, be under control. • Inspection of other facilities, which might have been affected by impact of incident. • Based on visit, Site Main Controller will finally declare and communicate termination of emergency and authorize step by step restoration of normal operations. The fire siren will be sounded with all CLEAR SIGNAL. • During entire period of emergency, the site will remain out of bounds to external visitors except: o External Fire Personnel; o External hospital ambulance staff; o Local Government; o Insurance authorities;</p> <p>Alarm System to be followed during Disaster: Suitable alarms will be developed after electrical works ad installations and these will be explained to each personnel working at the PCR site. The alarm will also be displayed at office for the information of visitors. Actions to be taken on Hearing the Warning Signal: On receiving the disaster message following actions will be taken: • Fire Fighting group, first aid group shall reach the ECC • Team members will remain ready in their respective sections for further instructions</p>
<p>Trainings Plan</p>	<p>The purpose of training is to establish and verify the organization's ability to prevent fires and to effectively respond to fire emergencies. As a minimum, all caretaker staff at these sites should receive training in the following areas:</p> <ol style="list-style-type: none"> i. Actions to take in the event of a fire: When to evacuate, when to attempt to extinguish a fire, whom to notify, what equipment to shut down. ii. The correct extinguisher and its proper operation on a particular type of fire (e.g., metals, electrical, chemical, wood, or paper). The training should be "hands-on" to give employees experience in extinguishment techniques. iii. Care and maintenance of equipment or machinery: To reduce fire loss potential by helping to keep equipment from malfunctioning or breaking down. iv. How to safely handle, use, and store flammable liquids.



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	<ul style="list-style-type: none">v. Thoroughly training in the fire exposures and control measures.vi. Fire drills must be conducted to test the organization's abilities and readiness to handle a fire emergency.vii. Maintenance of the existing electrical distribution equipment and preventable failure of on-site electrical distribution equipment.
Emergency contact Numbers:	Rescue Station: 1122 DoAM: 091-9210690 Police: 15 Hospital: Lady Reading Hospital Peshawar 091-9211430



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Annex-VIII NOC from DoAM:



**DIRECTORATE OF ARCHAEOLOGY AND MUSEUMS
GOVT. OF KHYBER PAKHTUNKHWA, PESHAWAR**

No: 2289/KITE 01/Archymus
Dated: 01-07-2021

C/O Peshawar Museum Peshawar
Ph. # 091-9211194, 9211488
Fax # 091-9210690

To,

The Project Director
Khyber Pakhtunkhwa Integrated Tourism
Development Project (KITE)
Peshawar.

Subject: - NOC FOR ILLUMINATION OF ARCHAEOLOGICAL BUILDINGS

Dear Sir,

I am directed to refer to the subject cited above and to state that this Directorate has no objection on activities carried out by KITE project for illumination of following Archaeological Sites:

1. Peshawar Museum.
2. Western Gate, Gor Gathri Peshawar.
3. Sethi House, Peshawar.
4. Any other archaeological site identified by this directorate during implementation of this project.

Yours faithfully,


(SIKANDAR KHAN)
ARCHL: ENGINEER