

DQA Assessment of Environmental Consequences

The purpose of this *Assessment of Environmental Consequences* is to determine whether the proposed action (scope of work) has the potential for significant negative impacts to the environment and, if so, to determine the scope and extent of additional environmental evaluation, mitigation, and monitoring necessary to fulfill the requirements in accordance with the Environmental Policy of the Govt. of Pakistan (National Environmental Policy 2005)¹.

CHECKLIST FOR ENVIRONMENTAL CONSEQUENCES: Check appropriate row as Yes (Y), Maybe (M), No (N) or Beneficial (B). Explain Y, M and B in the Explanations Section below. A “Y” does not necessarily indicate a significant impact but rather an issue that requires focused consideration.

1. Resources	Y, M, N, B
Grading, trenching, or excavation in cubic meters or hectare	_____
Geologic hazards (faults, landslides, liquefaction, un-engineered fill, etc.)	_____
Contaminated soils or ground water on the site	_____
Offsite overburden/waste disposal or borrow pits required in cubic meters or tons	_____
Loss of high-quality farmlands in hectares	_____
2. Agricultural and Agrochemical	Y, M, N, B
Impacts of inputs such as seeds and fertilizers	_____
Impact of production process on human health and environment	_____
Other adverse impacts	_____
3. Industries	Y, M, N, B
Impacts of run-off and run-on water	_____
Impact of farming such as intensification or clearing new land for agriculture	_____
Impact of other factors	_____
4. Air Quality	Y, M, N, B
Substantial increase in onsite air pollutant emissions (construction/operation)	_____
Violation of applicable air pollutant emissions or ambient concentration standards	_____
Substantial increase in vehicle traffic during construction or operation	_____
Demolition or blasting for construction	_____
Substantial increase in odor during construction or operation	_____
Substantial alteration of microclimate	_____
5. Water Resources and Quality	Y, M, N, B
River, stream or lake onsite or within 30 meters of construction	_____
Withdrawals from or discharges to surface or ground water	_____
Excavation or placing of fill, removing gravel from, a river, stream or lake	_____
Onsite storage of liquid fuels or hazardous materials in bulk quantities	_____
6. Cultural Resources	Y, M, N, B
Prehistoric, historic, or paleontological resources within 30 meters of construction	_____
Site/facility with unique cultural or ethnic values	_____

¹ <https://mowr.gov.pk/wp-content/uploads/2018/05/National-Environmental-Policy-2005.pdf>

7. Biological Resources	Y, M, N, B
Vegetation removal or construction in wetlands or riparian areas in hectare	_____
Use of pesticides/rodenticides, insecticides, or herbicides in hectare	_____
Construction in or adjacent to a designated wildlife refuge	_____
Endangered or threatened species are in project area	_____
8. Planning and Land Use	Y, M, N, B
Potential conflict with adjacent land uses	_____
Non-compliance with existing codes, plans, permits or design factors	_____
Construction in national park or designated recreational area	_____
Create substantially annoying source of light or glare	_____
Relocation of >10 individuals for +6 months	_____
Interrupt necessary utility or municipal service > 10 individuals for +6 months	_____
Substantial loss of inefficient use of mineral or non-renewable resources	_____
Increase existing noise levels >5 decibels for +3 months	_____
9. Traffic, Transportation and Circulation	Y, M, N, B
Increase vehicle trips >20% or cause substantial congestion	_____
Design features cause or contribute to safety hazards	_____
Inadequate access or emergency access for anticipated volume of people or traffic	_____
10. Hazards	Y, M, N, B
Substantially increase risk of fire, explosion, or hazardous chemical release	_____
Bulk quantities of hazardous materials or fuels stored on site +3 months	_____
Create or substantially contribute to human health hazard	_____
11. Other Issues (to be used for categories not captured under 1 through 10 above)	Y, M, N, B
Substantial adverse impact	_____
Adverse impact	_____
Minimal impact	_____
12. Construction Activity: Does the proposal include construction of any facilities including remodeling of any existing facilities?	Y, N

If yes, please indicate the nature of the construction activity. Indicate the existing conditions of the proposed construction site and provide photographs pre-construction.

EXPLANATION OF ENVIRONMENTAL CONSEQUENCES: Please refer to the checklist above and explain any Y, M, and B responses. For any Y and M responses, please discuss any reasonably foreseeable significant impacts on the environment. *Use additional pages as needed.*

PROPOSED MITIGATION MEASURES. For any reasonably foreseeable significant impacts on the environment, please list and discuss the measures that you would propose to eliminate or reduce those impacts. *Use additional pages as needed.*

PROPOSED MONITORING MEASURES. For any mitigation measures proposed above, please list and discuss the monitoring steps you would take to confirm that the mitigation is working. *Use additional pages as needed.*