**Environmental & Social Management Plan (ESMP)**

**Syphon irrigation channel, Sherot Dass Hassanabad**

| **Phase** |  | | **Implementation Plan** | | **Monitoring Plan** | | |
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| **Environmental and Social Impacts** | **Category** | **Proposed Mitigation Measures** | **Responsibility** | **Monitoring Parameter(s)** | **Frequency** | **Responsibility** |
| **Construction Phase** | | | | | | | |
| **Dust Emission** | A minimum amount of dust may arise during the construction of an intake chamber, pipe-hanging bridge, and irrigation channel | Negligible | Not Applicable |  |  |  |  |
| **Solid Waste** | During the construction of pipe-hanging bridge and other proposed activities on the site, a minimal amount of solid waste may be produced from the worker’s activities. | Low | 1. The existing waste collectors will be informed and engaged on a timely basis to pick up the waste from the site. 2. Waste collection shall be designated at the project site. 3. Workers shall be forbidden to dispose-off or bury waste on the site. 4. Illegal dumping in the surrounding area or the river shall be forbidden | AKRSP/Contractor | * Proper storage/handling of waste and materials | weekly | Environmental Specialist /Project Engineer AKRSP |
| **Worker’s Health and Safety and labor Conditions** | To ensure safety of workers  The risks can be mitigated using PPEs | Low | 1. Child labor shall be prevented. 2. First aid box will be ensured at site. 3. In case of an incident involving injury, the injured will be taken to the nearest medical facility after providing necessary first aid. 4. Personal protective equipment in conjunction with briefing use and maintenance of the PPE (Details of PPE are annexed) will be provided. 5. All workers will use the relevant PPE (helmet, gloves, goggles, work boots, masks, etc.) | AKRSP/Contractor | PPE | During construction work | Contractor |
| **Implementation/Operations Phase** | | | | | | | |
| **Soil Erosion** | The North side of the barren land of Sheriot Dass is slightly susceptible to soil erosion due to small scale GLOF/flooding from the Hassanabad Nullah. | Low | Soil binder species (Tamarix gallica, willow, Sea buckthorn) shall be planted to stabilize soil and reduce the risk of erosion | AKRSP | * Monitor the plantation | Quarterly | AKRSP/Env Specialist |