FINAL ENVIRONMENTAL AND SOCIAL REVIEW CHECKLIST

Micro-project title: Construction of a kindergarten in the village of Navur

Micro-project #: TTV-05

Is the Environmental and Social management plan (ESMP) developed? Yes + No ____

Does ESMP provide a full list of potential impacts and establish adequate measures for their mitigation? Yes + No ____

Conclusion of the Final Environmental and Social Assessment

<table>
<thead>
<tr>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro-project rejected</td>
</tr>
<tr>
<td>Micro-project approved (environmental assessment completed)</td>
</tr>
<tr>
<td>+</td>
</tr>
</tbody>
</table>
**PART A: GENERAL PROJECT AND SITE INFORMATION**

<table>
<thead>
<tr>
<th>INSTITUTIONAL &amp; ADMINISTRATIVE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro-project number and title</td>
<td>TTV-05 Construction of a kindergarten in the village of Navur</td>
</tr>
<tr>
<td>Municipality, community</td>
<td>Tavush, marz, Navur community</td>
</tr>
<tr>
<td>Scope of site-specific activity</td>
<td>Up to July, 2015 the kindergarten was functioning in an inhabited house bought by the Community Council in 50’s. It had 50 children. Currently, kindergarten’s activity is suspended because of poor sanitary and hygiene conditions. The Community has 70 children at kindergarten age. The proposed kindergarten can serve also for the children from the adjacent community Istaqar. The proposed building will be two-storied in complex shape consisting of two rectangular sections which are divided with anti-seismic junction. The first floor will consist of a foyer, a cloak-room, rooms for one group (a playroom, a bedroom, a cafeteria, a restroom) as well as a staff room with its restrooms, a doctor’s room, an isolator with its restrooms, a kitchen, a food warehouse, a thermal junction and a laundry room. The second floor will consist of a foyer, rooms for two groups and two evacuation exits. The following is also planned to be constructed within the framework of the micro-project: construction of water supply system, sewage, gas supply internal and external systems as well as internal power supply, heating, ventilation, automatic fire control system. Heating will be provided through two wall turbo boilers installed in a thermal junction. The land plot is situated close to the existing municipal utilities: water supply main line is in 215 meters distance, the sewage pipeline is in 350 meters distance, and the gas pipe is in 80 meters. Area improvement and fencing, implementation of blind area, playgrounds, construction of passageways and inner roads is also included in the micro-project design.</td>
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</tbody>
</table>

| Institutional arrangements (WB) | Task Team Leader: Erkin Mamadaliev | Safeguards Specialist: Darejan Kapanadze (environmental) Sophia Georgieva (social) |
| Implementation arrangements (RoA) | Implementing entity: ATDF | Works Supervisor: “ALTERNATIV” LTD | Works Contractor: “Andreas ev LIMITED” CJSC |

| SITE DESCRIPTION |  |
| Name of institution whose premises are to be rehabilitated | Educational Department of Tavush Marzpetaran (regional governor office), Navur |
| NI kindergarten (Non-Profit Organization) | |
| Address and site location | Address: Tavush marz, Navur village, street 1. The N of the kindergarten will be decided after the building construction is finished. |
| Who owns the land? | The kindergarten is Community property. The total surface is 0.26 hectares. According to the legal decision of land allocation (N24-A, 26.10.2015), the land was allocated for the construction of the new kindergarten. |
| Description of physical and natural environment around the site (see maps and photo annex 1) | The proposed land plot for the construction of new kindergarten building is located in center of the community. The land is a community property. Currently, the land plot is not being used by any physical or legal body in any formal or informal way. The proposed land plot has several growing trees which are going to be removed for the construction. Agreement was signed with the Head of the community on planting trees after the construction following the proportion of 1 removed /5 new planted tree. |

| LEGISLATION |  |
| National & local legislation & permits that apply to project activity | Construction of the kindergarten building is not subject to the Environmental Impact Assessment and to the issuance of the expert environmental review conclusion. According to the Armenian legislation, the following permissions are required for |
this micro-project:
(a) land allocation from Tavush marz governor;
(b) construction permit;
(c) permission for the disposal of construction waste, and
(d) certificate of sanitary inspection

Operation of the building requires additional permissions certifying that technical parameters established for electric, gas, water supply and sewage appliances are met.

PUBLIC CONSULTATION
When / where the public consultation process will take / took place
Public consultation was carried out on February 11, 2016 in Navur community, Tavush Marz.

ATTACHMENTS
Annex 1: Photos and plan of the construction site
Annex 2: Minutes of Environmental and Social Public Consultations
Annex 3: Copy of the land allocation document
Annex 4: Copy of a Construction Permit
Annex 5: Copy of an agreement for construction waste disposal
### ENVIRONMENTAL /SOCIAL SCREENING

<table>
<thead>
<tr>
<th>Activity/Issue</th>
<th>Status</th>
<th>Triggered Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Building rehabilitation</td>
<td>[ ] Yes [+] No</td>
<td>See Section A below</td>
</tr>
<tr>
<td>B. New construction</td>
<td>[+] Yes [ ] No</td>
<td>See Section A below</td>
</tr>
<tr>
<td>C. Individual wastewater treatment system</td>
<td>[ ] Yes [+] No</td>
<td>See Section B below</td>
</tr>
<tr>
<td>D. Historic building(s) and districts</td>
<td>[ ] Yes [+] No</td>
<td>See Section C below</td>
</tr>
<tr>
<td>E. Acquisition of land(^1)</td>
<td>[ ] Yes [+] No</td>
<td>See Section D below</td>
</tr>
<tr>
<td>F. Hazardous or toxic materials(^2)</td>
<td>[ ] Yes [+] No</td>
<td>See Section E below</td>
</tr>
<tr>
<td>G. Impacts on forests and/or protected areas</td>
<td>[ ] Yes [+] No</td>
<td>See Section F below</td>
</tr>
<tr>
<td>H. Handling / management of medical waste</td>
<td>[ ] Yes [+] No</td>
<td>See Section G below</td>
</tr>
<tr>
<td>I. Traffic and Pedestrian Safety</td>
<td>[+] Yes [ ] No</td>
<td>See Section H below</td>
</tr>
</tbody>
</table>

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\(^1\) Land acquisitions includes displacement of people, change of livelihood encroachment on private property this is to land that is purchased/transferred and affects people who are living and/or squatters and/or operate a business (kiosks) on land that is being acquired.

\(^2\) Toxic / hazardous material includes but is not limited to asbestos, toxic paints, noxious solvents, removal of lead paint, etc.
## PART C: MITIGATION MEASURES

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>PARAMETER</th>
<th>MITIGATION MEASURES (provide costs where applicable)</th>
</tr>
</thead>
</table>
| 0. General Conditions | Notification and Worker Safety | (a) The local construction and environment inspectorates and communities have been notified of upcoming activities  
(b) The public has been notified of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works)  
(c) All legally required permits have been acquired for construction  
(d) The Contractor formally agrees that all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighboring residents and environment.  
(e) Workers’ PPE will comply with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots)  
(f) Appropriate signposting of the sites will inform workers of key rules and regulations to follow. |
| A. General Construction Activities | Air Quality | (a) During interior demolition debris-chutes shall be used above the first floor  
(b) Demolition debris shall be kept in controlled area and sprayed with water mist to reduce debris dust  
(c) During pneumatic drilling/wall destruction dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site  
(d) The surrounding environment (sidewalks, roads) shall be kept free of debris to minimize dust  
(e) There will be no open burning of construction / waste material at the site  
(f) There will be no excessive idling of construction vehicles at sites |
| | Noise | (a) Construction noise will be limited to restricted times agreed to in the permit  
(b) During operations the engine covers of generators, air compressors and other powered mechanical equipment shall be closed, and equipment placed as far away from residential areas as possible |
| | Water Quality | (a) The site will establish appropriate erosion and sediment control measures such as e.g. hay bales and / or silt fences to prevent sediment from moving off site and causing excessive turbidity in nearby streams and rivers. |
| | Waste Management | (a) Waste collection and disposal pathways and sites will be identified for all major waste types expected from demolition and construction activities.  
(b) Mineral construction and demolition wastes will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate containers.  
(c) Construction waste will be collected and disposed properly by licensed collectors  
(d) The records of waste disposal will be maintained as proof for proper management as designed.  
(e) Whenever feasible the contractor will reuse and recycle appropriate and viable materials (except asbestos) |
| B. Individual wastewater treatment system | Water Quality | (a) The approach to handling sanitary wastes and wastewater from building sites must be approved by the local authorities  
(b) Before being discharged into receiving waters, effluents from individual wastewater systems must be treated in order to meet the minimal quality criteria set out by national guidelines on effluent quality and wastewater treatment  
(c) Monitoring of new wastewater systems (before/after) will be carried out  
(d) Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies. |
| C. Historic building(s) | Cultural Heritage | (a) If the building is a designated historic structure, very close to such a structure, or located in a designated historic district, notification shall be made and approvals/permits be obtained from local authorities and all construction activities planned and carried out in line with local and national legislation.  
(b) It shall be ensured that provisions are put in place so that artifacts or other possible “chance finds” encountered in excavation or construction are noted and registered, responsible officials contacted, and works activities delayed or modified to account for such finds. |
<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>PARAMETER</th>
<th>MITIGATION MEASURES CHECKLIST</th>
</tr>
</thead>
</table>
| D. Acquisition of land         | Land Acquisition Plan/Framework                                           | (a) If expropriation of land was not expected but is required, or if loss of access to income of legal or illegal users of land was not expected but may occur, that the Bank’s Task Team Leader shall be immediately consulted.  
(b) The approved Land Acquisition Plan/Framework (if required by the project) will be implemented.                                                                                                                                                                                                                                         |
| E. Toxic Materials             | Asbestos management                                                      | (a) If asbestos is located on the project site, it shall be marked clearly as hazardous material.  
(b) When possible the asbestos will be appropriately contained and sealed to minimize exposure.  
(c) The asbestos prior to removal (if removal is necessary) will be treated with a wetting agent to minimize asbestos dust.  
(d) Asbestos will be handled and disposed by skilled & experienced professionals.  
(e) If asbestos material is stored temporarily, the wastes should be securely enclosed inside closed containments and marked appropriately. Security measures will be taken against unauthorized removal from the site.  
(f) The removed asbestos will not be reused.                                                                                                                                                                                                                                                                                  |
| F. Affected forests, wetlands  | Protection                                                                | (a) All recognized natural habitats, wetlands and protected areas in the immediate vicinity of the activity will not be damaged or exploited, all staff will be strictly prohibited from hunting, foraging, logging or other damaging activities.  
(b) A survey and an inventory shall be made of large trees in the vicinity of the construction activity, large trees shall be marked and cordoned off with fencing, their root system protected, and any damage to the trees avoided.  
(c) Adjacent wetlands and streams shall be protected from construction site run-off with appropriate erosion and sediment control feature to include by not limited to hay bales and silt fences.  
(d) There will be no unlicensed borrow pits, quarries or waste dumps in adjacent areas, especially not in protected areas.                                                                                                                                                                                                 |
| G. Disposal of medical waste   | Infrastructure for medical waste management                              | (a) In compliance with national regulations the contractor will insure that newly constructed and/or rehabilitated health care facilities include sufficient infrastructure for medical waste handling and disposal; this includes and not limited to:  
- Special facilities for segregated healthcare waste (including soiled instruments “sharps”, and human tissue or fluids) from other waste disposal; and  
- Appropriate storage facilities for medical waste are in place; and  
- If the activity includes facility-based treatment, appropriate disposal options are in place and operational.                                                                                                                                                                                                 |
| H Traffic and Pedestrian Safety| Direct or indirect hazards to public traffic and pedestrians by construction activities | (a) In compliance with national regulations the contractor will insure that the construction site is properly secured and construction related traffic regulated. This includes but is not limited to:  
- Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards  
- Traffic management system and staff training, especially for site access and near-site heavy traffic. Provision of safe passages and crossings for pedestrians where construction traffic interferes.  
- Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement.  
- Active traffic management by trained and visible staff at the site, if required for safe and convenient passage for the public.  
- Ensuring safe and continuous access to office facilities, shops and residences during renovation activities, if the buildings stay open for the public. |
Environmental Monitoring Plan for construction and operation phases.

<table>
<thead>
<tr>
<th>Activity</th>
<th>What (Is the parameter to be monitored?)</th>
<th>Where (Is the parameter to be monitored?)</th>
<th>How (Define the frequency or continuous?)</th>
<th>When (Is the parameter being monitored?)</th>
<th>Why (Is the parameter being monitored?)</th>
<th>Who (Is responsible for monitoring?)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSTRUCTION PHASE</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>1. Supply of construction materials</td>
<td>Purchase of the construction materials from licensed providers</td>
<td>Offices and warehouses of material suppliers, and borrowing sites</td>
<td>Checking documents; Inspection of material quality</td>
<td>In the process of signing the agreements for material provision</td>
<td>Ensure technical quality of construction; Protect human health and environment</td>
<td>ATDF</td>
</tr>
<tr>
<td>2. Transportation of construction materials and waste</td>
<td>Technical condition of construction vehicles and machinery; Adequacy of the loading trucks for transported types of cargo, and canopy coverage of cargo transported in open trucks; Movement of construction vehicles and machinery along pre-defined routes</td>
<td>Routes for transportation of construction materials and construction wastes</td>
<td>Inspection of roads adjacent to the construction site and included in the agreed-upon routes of transportation</td>
<td>Unannounced checks during the working hours</td>
<td>Avoid air and road pollution with dust and solid matter; Reduce traffic disruption</td>
<td>ATDF, Local Municipality of the village of Navur</td>
</tr>
<tr>
<td>3. Generation of construction waste</td>
<td>Timely disposal of waste to the formally designated landfills; Location designated for waste</td>
<td>Construction site and base (if applicable); Locations designated for waste</td>
<td>Checking documents; Visual observation</td>
<td>Entire period of construction</td>
<td>Avoid pollution of the environment</td>
<td>ATDF, Local Municipality the village of Navur</td>
</tr>
<tr>
<td>Operation Phase</td>
<td>Disposal</td>
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</tbody>
</table>
| 4. Accumulation of household waste | **Provision of waste containers on-site;**  
Agreement with local municipality for regular out-transporting of waste | **Construction site and base (if applicable)** | **Visual inspection** | **Entire period of construction** | **Avoid pollution of soil and water with household waste** | **ATDF, Municipality the village of Navur** |
| 5. Safety of labor | **Provision of uniforms and protective gear to workers and enforcement of their use by contractor;**  
Consistency with the rules of exploitation of the construction equipment and usage of private safety means | **Construction site** | **Inspection of the activities** | **Entire period of construction** | **Reduce the probability of accidents** | **ATDF** |
| 6. Undertaking works within the settlement | **Deparkation and fencing of work site;**  
No parking of construction vehicles and machinery outside work site the way impeding free passage of traffic and pedestrians;  
No piling and no scattering of construction materials and waste outside the work site | **Construction site and nearby area** | **Visual inspection** | **Entire period of construction** | **Reduce disruption of movement around the work site and decrease probability of accidents** | **ATDF** |
<table>
<thead>
<tr>
<th>1. Disposal of household waste and waste from periodic renovation of the kindergarten building</th>
<th>Regular collection and disposal of household waste generated at kindergarten to the landfill serving Navur village</th>
<th>On the kindergarten plot its immediate surroundings</th>
<th>Inspection</th>
<th>During entire period of kindergarten building operation</th>
<th>Maintain good sanitary conditions at school; Prevent environmental pollution</th>
<th>Municipality the village of Navur</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Disposal of accumulated sewer from the kindergarten building’s septic reservoir</td>
<td>Regular collection and removal of collected sewer by special vehicles twice a month</td>
<td>At the kindergarten building</td>
<td>Inspection</td>
<td>During entire period of kindergarten building operation</td>
<td>Maintain good sanitary conditions at school; Prevent pollution of soil and water</td>
<td>Municipality the village of Navur</td>
</tr>
</tbody>
</table>
Annex 1: Photos and plan of the construction site
MINUTES

Of Public Consultations on draft Environmental and Social Management Plan for the construction of a kindergarten building in Navur community

A stakeholder consultation meeting on the draft Environmental and Social Management Plan (ESMP) for the construction of a kindergarten building was held on February 11, 2016 in Navur community, Tavush Marz.

The announcement for the meeting in Armenian and English languages, including its date and time, was disclosed on the ATDF website (www.atdf.am) on 01 Feb, 2016. Information on the meeting day and time was posted on information boards of Navur Community Administration Office, in addition the Administration conducted telephone calls to ensure participants’ attendance.

The public consultation was carried out by ATDF Social Specialist Sonya Msryan and ATDF Environmental Specialist Asya Osipova. 21 participants were present at the meeting, among which 11 women (about 52%).

At the very beginning, Head of the Community Mr. Aram Nigoyan introduced the main purpose of the consultation and ATDF specialists.

A.Osipova introduced the main purpose as well as World Bank requirements and Armenian legislation on conducting environmental and social assessment. She introduced ESMP for the construction of a kindergarten building in Navur Community and outlined likely negative environmental impacts related to the Micro-project implementation. These include pollution of air, generation of construction waste, removal of trees and direct or indirect hazards to public traffic and pedestrians by construction activities.

Ms. Osipova explained what measures ATDF will apply to mitigate possible negative impacts, including construction waste transportation. It was mentioned that ESMP covers the issue of the transportation and disposal of construction wastes and excessive soil.

Since the school area is not fenced and is located in the center of the Community, A. Osipova talked about safety measures for community members and workers and disturbance to community life due to construction activities. Technical supervisors on monthly basis will keep under control the fulfillment of all the environmental mitigation measures included in ESMP, and report the deviations to ATDF.

S. Msryan presented the main provisions of the ESMF concerning to the social aspects of the Project. She talked about possible social risks and ways of their mitigation. She emphasized that
the project does not involve any resettlement as proposed area of the construction is public property; however she briefly introduced key features of Resettlement Policy Framework.

S. Msryan talked also about main socio-economic challenges including engagement of women, youth and vulnerable groups in distribution of benefits. She outlined that these groups should have equal opportunities to be engaged in project benefits. The concept was welcomed by participants, who suggested involve constructors from the Community mentioning that it will reduce unemployment in Community and labor immigration for seasonal works.

Ms. Msryan explained mechanisms of public engagement and grievance redress mechanism (GRM) to be applied during project implementation. Elected grievance focal point at the community level Haykuhi Ohanyan was introduced to the community members. S. Msryan explained the purpose of Focal points at local level and welcomed participants to apply to Haykuhi in case of questions/feedback or grievances concerning to the project implementation.

S. Msryan informed the beneficiaries that they also have the option to contact ATDF directly to communicate their grievance if they are unable to, or do not wish to, go through the PIC grievance focal point. S. Msryan explained all the channels of grievance submission involving e-mail address, hot line telephone number, postal address and web-site link and outlined that ATDF contact information is referred on the booklets delivered to the participants, as well as on the information desk already available in public visible places in the Community. S. Msryan introduced that information on Micro-project details permanently will be available on the information desks, as well as on-going announcements and references. She outlined that these will support to raising public awareness and early identification, assessment and resolution of complaints on Project activities.

The participants outlined that they do not anticipate environmental and social issues, but only benefits as the surrounding area next to the site will be cleaned and rehabilitated, as well as new job opportunities will be available in the community.

The participants were welcomed to raise questions regarding to the discussed questions. No questions were raised by the participants.

The list of participants and photos are attached
List of Participants

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Photos of Public Consultation
Annex 3: Copy of the land allocation document

Non-official translation of the above attached document:

The community provided an area 0.26619 hectare for constructing a new kindergarten. Cadaster code is 11-046-0024-0021.

Certificate N 26102015-11-0023

Navur community leader A.Nigoyan
Republic of Armenia
Tavush Region, Community Navur
Construction Permit N 1, 03.05.2016
This is given for the Construction Project of the kindergarten building in Navur Community
The design documents are
1. developed by “Engineering Evrus” LLC, license 10500
2. received positive expertise conclusion on 28.12.2015, N 7/PP-495 186/1 by RA “NPAP” CJSC, license 6577
Navur Community Head
A. Nigoyan Sealed/Signed
Annex 5: Copy of an agreement for construction waste disposal

Non-official translation of the above attached document:

The construction waste generated during construction of Navur kindergarten building will be transported to Qyati Dzor located 2 kilometers from the village.

Navur Community Head

A. Nigoyan Sealed/Signed