

Environmental Due Diligence Report

May 2019

TAJ: Strengthening Technical and Vocational Education and Training Project

Minor Renovation in MOLME Conference Hall and Installation of Elevator in
EA-MOLME Building (CW15)

Prepared by the Project Administration Group, Ministry of Labor, Migration and Employment for
the Asian Development Bank.

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Environmental Safeguards Due Diligence Report

Project number: 46535-001

Grant 0452/53/Loan 3309

Date: May 2019

TAJ: Strengthening Technical and Vocational Education and Training

“MOLME/SH/CW15” – Minor Renovation in MOLME Conference Hall and Installation of Elevator in EA-MOLME Building

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ABBREVIATIONS

ADB	Asian Development Bank
ACM	Asbestos containing materials
ALC	Adult Learning Center
CM	Complaint Mechanism
EIA	Environmental impact assessment
EMP	Environmental Management Plan
FLM	Fuel and lubrication materials
GFS	Gypsum-fiber sheets
IEE	Initial Environmental Examination
LLC	Limited Liability Company
MFC	Microfinance company
MOLME	Ministry of Labor, Migration and Employment of the Republic of Tajikistan
PAG	Project Administration Group
SI	State institution
SSEMP	Site-specific Environmental Management Plan
TVLS	Technical Vocational Lyceum in Shugnon
TVET	Technical and Vocational Education and Training
WMP	Waste Management Plan

1. INTRODUCTION

1.1. *Justification of the site*

1. Over the years of independence, the management of the Government has made efforts to develop the education sector and training of highly qualified specialists for various industries.
2. The Ministry of Labor, Migration and Employment of the Republic of Tajikistan pays special attention to the technical condition, the availability of educational facilities (institutions) in schools to enhance vocational education and training of learners and students.
3. The proposed Project on Strengthening Technical and Vocational Education and Training (Project) will have an impact on national workforce with a high proportion of skilled workers employed in Tajikistan's domestic economy. The project is aimed at meeting the needs of the Republic of Tajikistan. Within the framework of the project, unemployed and partially employed young people and the adult population in the Republic will be provided with job opportunities and income in the domestic and international labor markets by providing quality training.
4. The outcome of the Project will be a more effective, efficient, quality-assured, and flexible system for the delivery of technical vocational training. The project includes the achievement of five outputs, namely: (i) modernization of the methodology of the TVET system; (ii) improving the physical conditions of training institutions; (iii) increasing the volume and quality improvement of TVET delivery; (iv) expansion of equal access to TVET; and (v) strengthening the leadership and management of the TVET system.
5. In November 2015, a Grant Agreement was signed between the Republic of Tajikistan and ADB on project financing.
6. A general IEE/ EMP for the overall project was prepared and approved by September 2015. The project has been classified as category B in accordance with ADB's Safeguard policies.
7. As part of this Project, The Project Administration Group will involve a contractor under "MOLME/SH/CW15" contract (shopping) for minor rehabilitation, installation of elevator and fire ladder in EA-MOLME building. This was agreed on between MOLME and ADB during the 31 October – 8 November 2018 Review Mission. This will help MOLME extend and upgrade its main office which will allow for hosting of high level meetings with stakeholders, development partners etc. to discuss and settle various issues related to migration, workforce, labor and other relevant points. Besides, this will facilitate strengthening cooperation links between MOLME and development partners by running Donor Coordination setting and other relevant events.
8. The Contractor will professionally and qualitatively undertake, in accordance with the contract to be awarded, the repair and installation works in the Main office of MOLME.
9. The Environmental Management Plan (EMP), which is part of the IEE, is very general and wide-ranging and covers all possible consequences associated with the project. Therefore, the Contractor is required to develop a Site-specific Environmental Management Plan (SSEMP) prior to the commencement of construction works.

10. The main objective of the plan is to document how the environmental mitigation measures and required management plans proposed for rehabilitating the project site will be brought into line with the project commitments.
11. In addition, during the implementation of the Project, the Contractor will strictly comply with ADB's safeguard requirements and national laws and regulations in the field of environmental protection, and, under the terms of the contract, will develop and refine the working measures, plan and management system for environmental protection in areas of repair works.

2. DEFINING THE BORDERS

2.1. Current condition of the site

12. The MOLME main office is a cement block masonry four-storied building.
13. The elevator proposed to be mounted is in the left side from the main entrance.

2.2. Location of objects and access to the site

14. The office of the MOLME is located in Sino district of Dushanbe city, in Alisher Navoi street 5/2 (Zone 1 in *Fig.1*). It is proposed to install an elevator and mount a fire ladder as part of the Project in the main office of MOLME.

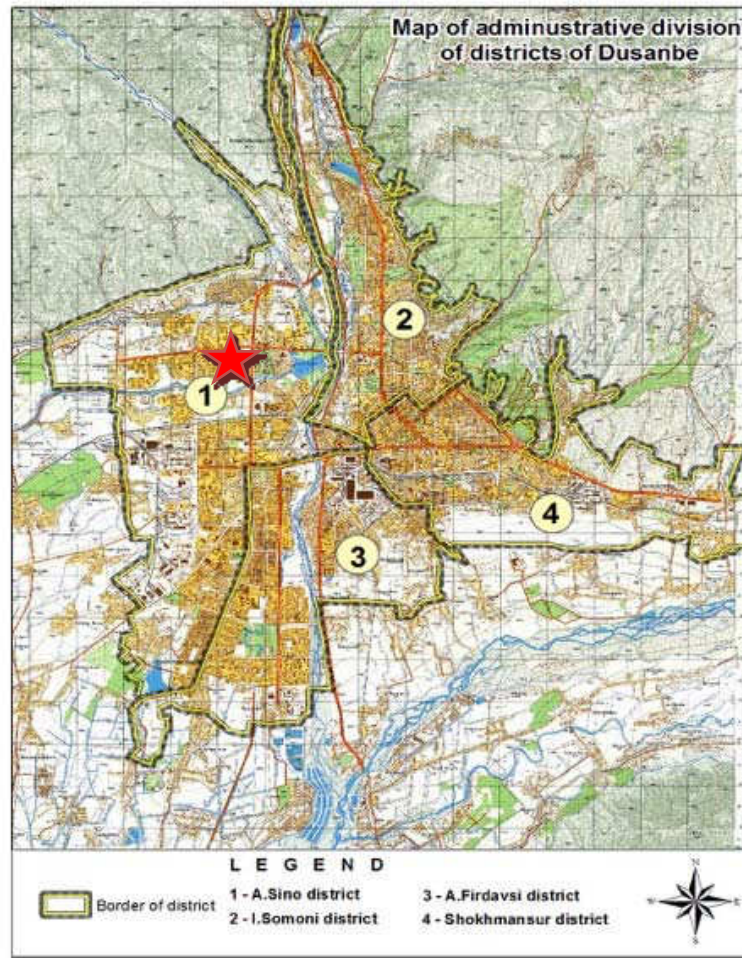


Figure 1: The rehabilitated facility is located in the area 3 (A.Firdavsi district), Dushanbe

15. The main road that will be used for the transportation of equipment and construction materials to the office of MOLME is Alisher Navoi street. The contractor will establish warning signs on conducting rehabilitation works.
16. Photos below illustrate current status of the building of main office of MOLME in which installation of elevator is proposed.



Photo 1: Side view of the Main office of MOLME, the fire ladder proposed to mount in the area shown by red



Photo 2: Front view of the Main office of MOLME



Photo 3: Front view of the main building of MOLME, by red shown the area where the elevator proposed to be mounted.

17. Transportation of equipment and construction materials will be done by Abu Ali Ibni Sino avenue. The contractor shall install warning signs at appropriate points (at least at the distance 20 m before construction site) during conduction of rehabilitation works and observe requirements to ensure traffic and pedestrian safety.
18. *Figure 2* below shows the sub-project site boundaries and other receptors located close to the area, as well as access roads.

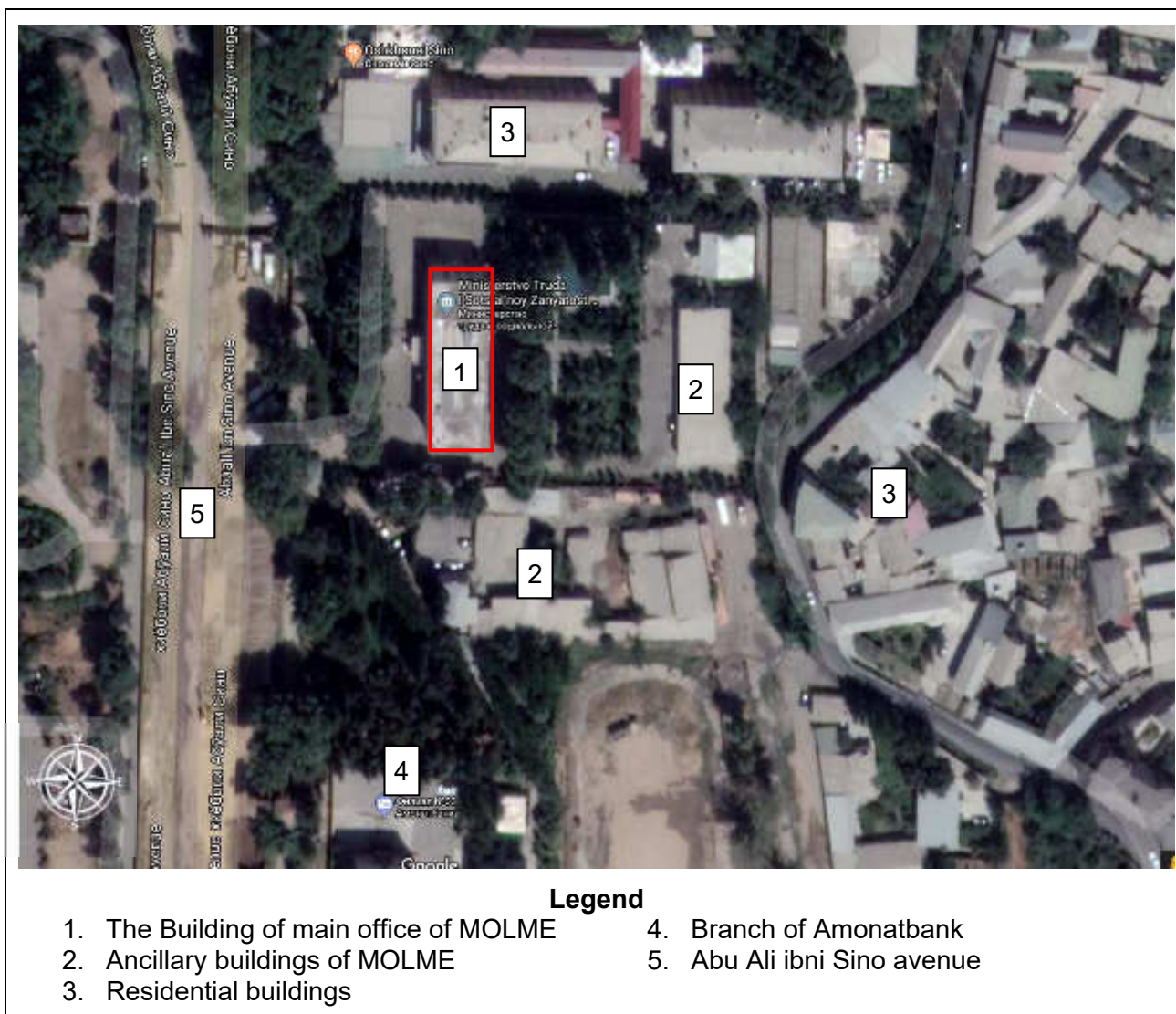


Figure 2: Aerial photo of the main office of MOLME

19. The Main building of MOLME proposed for rehabilitation under STVET project is located at the distance of 50-100 meters and more from the residential houses.

From the North side of the Building there are:

- Residential buildings located at the distance of 60 m

From the South side there are:

- Ancillary buildings of MOLME – 30 m
- Branch of Amonatbank - 134 m

From the East side there are:

- Residential houses located at the distance more than 100 m.

From the West side there are:

- The road of abu Ali ibni Sino avenue - 50 m

20. There is no need for construction of a separate camp for the personnel of Contractor, because all workers will be local.

21. Construction waste from the site should be disposed at the nearest waste storage facility in Dushanbe Sino district which is located at the distance of about 5 km from the site. Contractor shall conclude an agreement with the SUE Khojagiyu Manzilii Kommunalii and apply for relevant permits.

3. CONSTRUCTION ACTIVITY

3.1. Types of civil works

22. The following construction activities are envisaged for construction of fire ladder and elevator in main office of MOLME(*Table 1*):

Table 1: Types of construction works

no	Description	Unit	Q-ty
Metal fire escape			
1	Dismantling PVC window openings	pcs	6
2	Punching openings in brick walls with a jackhammer of windowsills	m ³	3.5
3	Structure of underlying crushed stone layers 100 mm thick	m ³	3
4	Construction of concrete pads 100 mm thick	m ³	3
5	Construction of foundation under racks	m ³	1.5
6	Construction of metal fire ladder with a protection	ton	5
Elevator			
7	Structure of underlying crushed stone layers 100 mm thick	m ³	1.5
8	Construction of foundation	m ³	4
9	Construction and installation of a metal frame (elevator shaft)	pc.	1
10	Metal	t	3
11	Construction and installation of composite facade material	m ²	91
12	Construction and installation of glass elevator structures	m ²	30
13	Construction and installation of the roof of the elevator facilities	pc.	1
14	Elevator equipment (outdoor elevator, load capacity 1000 kg.)	pc.	1

4. POTENTIAL IMPACTS AND MITIGATION MEASURES

23. Potential impacts of proposed rehabilitation activities and relevant mitigation measures are presented in the *Table 2* below.

Table 2: Potential impacts of the proposed activities and mitigation measures

Potential impacts	Mitigation measures
Temporary increase of background noise and vibration due to construction works	<p>Ensure that the maximum and equivalent noise levels comply with sanitary regulations. (max 55 dB for residential houses and educational establishment)¹</p> <p>Monitor and address complaints about the noise level.</p> <p>Construction works (including drilling works) will be limited to restricted times agreed to in the permit – from 7am to 6 pm in week days and from 8am to 4 pm on Saturday. No works at night time, Sunday and holidays are allowed.</p>
Creation of dust emissions and volatile organic compounds at construction site while dismantling work, transportation of construction materials and waste	<p>Ensure that the quality of air at construction sites is in line with sanitary norms and regulations. Conducting inspections and audits of dust management and air quality measures in line with the air quality</p> <p>Monitor dust emissions to ensure emissions are minimized.</p> <p>Monitor and address complaints about dust / volatile organic compounds and other pollutants</p> <p>Construction works will be limited to restricted times (working days of week, the hours of 7 am to 6 pm)</p> <p>Providing the construction workers with suitable personal protective equipment (respirators)</p> <p>There will be no open burning of construction / waste material at the site There will be no excessive idling of construction vehicles at sites</p> <p>Keep surrounding environment (side-walks, roads) free of debris to minimize dust</p>
Construction waste	<p>Waste disposal facilities are available.</p> <p>Boxes for construction debris will be installed in the site.</p> <p>The construction waste will be disposed according to general EMP requirements and SSEMP (Waste Management Plan)</p> <p>Construction waste will be collected, recorded (by types) and disposed properly by licensed collectors</p> <p>Timely sorting of rehabilitated and removing construction waste in an organized way, and disposal them on an authorized land field</p> <p>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</p>

¹ GOST 12.1.036-81 (1996) SSBT Noise. Allowable levels of noise within residential and public buildings

	<p>Dispose off waste appropriately to prevent pollution of soil and groundwater</p> <p>The approach to handling sanitary wastes and wastewater from building sites (installation or reconstruction) must be approved by the local authorities</p> <p>Recycle valuable materials within the project or sold.</p> <p>Aim to minimize waste through reducing and re-using (packaging) material</p> <p>Do not allow any burning or burying of waste on site.</p> <p>Prevent littering by construction staff at work sites by providing bins or waste bags in sufficient locations.</p> <p>The records of waste disposal will be maintained as proof for proper management as designed;</p> <p>Whenever feasible the contractor will reuse and recycle appropriate and viable materials.</p>
<p>Toxic / hazardous waste management</p>	<p>Temporarily storage on site of all hazardous or toxic substances will be in safe containers labeled with details of composition, properties and handling information</p> <p>The containers of hazardous substances should be placed in a leak-proof container to prevent spillage and leaching</p> <p>The wastes will be transported by specially licensed carriers and disposed in a licensed facility</p> <p>Paints with toxic ingredients or solvents or lead-based paints will not be used</p>
<p>Soil contamination due to accidental spillage</p>	<p>Construction materials that can impact the soil should be kept in a special premise or in concrete ground.</p> <ul style="list-style-type: none"> • All measures on protection of soil erosion and contamination will be carried out in accordance with the contract and the Engineer's instructions; <ul style="list-style-type: none"> - Disturb as little area as possible. - Store materials off the ground in a covered area - Place waste/trash in containers and cover - Install a concrete wash-out when working with concrete - Etc.
<p>Health and labor safety (occupational hazards) – during construction and operation</p>	<ul style="list-style-type: none"> • The local construction and environment inspectorates have been notified of upcoming activities • All work will be carried out in a safe and disciplined manner designed to minimize impacts on worker health and environment. • Workers will comply with international good practice - providing the construction workers with suitable personal protective equipment (always hardhats, as needed masks and safety glasses, harnesses and safety boots) • Appropriate signposting of the sites will inform workers of key rules and regulations to follow. <p>Following plans to be developed for construction and operation phases of the project: Emergency Response Plan and Health and Safety Plan</p>

<p>Health and labor safety – during conducting works on heights</p>	<ul style="list-style-type: none"> • avoid work at height where this is reasonably practicable, use work equipment (height belts) or other measures to prevent falls where you cannot avoid working at heights; • inspect and maintain work and safety equipment as appropriate and the place of work at height on each use; • properly plan, organize, and appropriately supervise the work thoroughly and ensure it is carried out in a safe manner; • ensure those involved in the work (including the planning, organizing, supervising, and carrying out of the work) are competent - this means that they have the skills, knowledge, and experience to do the job or are supervised by a competent person;
<p>Direct or indirect hazards to public traffic and pedestrians by construction activities</p>	<p>Transport along the 5. Abu Ali Ibni Sino avenue, consists of private cars and public transport, as well as taxis, minibuses, trucks. The amount of transport is quite large</p> <p>Contractor will observe the necessary precautions (speed limit, working hours from 7 am to 6 pm),</p> <p>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:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards <input type="checkbox"/> Traffic management system and staff training, especially for site access and near-site heavy traffic. <input type="checkbox"/> Adjustment of heavy traffic to local traffic patterns, e.g. avoiding major transport activities during rush hours

4.1. Site-specific Environmental Management plans (SSEMPs) to be prepared by the Contractor

24. The general Environmental Management plan (EMP) for all project sites has been approved as part of Initial Environmental Examination (IEE) endorsed by State Environmental Committee of the Republic of Tajikistan and general management measures that apply to this sub-project should be followed by the Contractor.
25. In addition, the Contractor should prepare the following seven (7) Site-specific Environmental Management plans (SSEMPs):
- Waste Management Plan;
 - Emergency Response Plan;
 - Health and Safety Protection Plan including Working at Height Management Plan;
 - Plan for the Consideration of Complaints;
 - Dust Control Plan;
 - Noise Management Plan;
 - Traffic and Road Safety Management Plan.

5. CONCLUSIONS AND RECOMMENDATIONS

26. The environmental impacts of proposed construction works on installation of elevator and construction fire escape at the building of Main office of MOLME will not be significant and will be temporary and reversible.
27. Contractor should prepare Site specific environmental management plans. Since part of the work will be performed at heights, the Contractor should to prepare a Working at height management plan. EMP and monitoring plan developed for the project will remain effective and will continue to be monitored until the sub-project is completed. The accepted EMP/SSEMP and mitigation measures should be effective to control all expected impacts but adjustments will be made if any unexpected impacts occur during the construction period to minimize the impact on the environment.
28. During execution of works, the Contractor will take all measures to mitigate the possible adverse effects and the PAG in turn will run strict monitoring of the Contractor's activity and timely undertaking of mitigation measures in line with the accepted EMP/SSEMP. PAG specialists will periodically visit the site during the construction active phase of additional works to monitor the environmental impacts and check on the implementation of the EMP/SSEMP.
29. Construction impacts should be very predictable and manageable, and with appropriate mitigation, likely minor residual effects. The implementation of appropriate measures for the design, construction and operation phases should be minimized to negative impacts to acceptable levels.
30. In case any claims or complaints are submitted during the construction period, an effective and efficient Grievance Redress Committee being in place, will enhance provision of timely and sensible hearings and facilitate solutions.