CENTER FOR EDUCATION PROJECTS

GENERAL EDUCATION IMPROVEMENT PROJECT

ADDITIONAL FINANCING

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN FOR CONSTRUCTION OF YEREVAN HIGH SCHOOL N139 AFTER KAREN DEMIRCHYAN

YEREVAN 2023

PART A: General Project and Site Information

INSTITUTIONAL & ADMINISTRATIVE			
Country	**Republic of Armenia**		
Project title	**Education Improvement Project Additional Financing**		
Scope of site-specific activity	**Rehabilitation of Yerevan High School N139 After Karen Demirchyan**		
Institutional arrangements (WB)	**Task Team Leaders:** Renata Freitas Lemos	Safeguards Specialists: Darejan Kapanadze (environment) David Jijelava (social)	
Implementation arrangements (RoA)	**Implementing entity:** **Center for Education Projects (CEP)**	Works supervisor Anna Karapetyan (annakar@list.ru)	Works contractor (tbd)
PROJECT AND SITE DESCRIPTION			
Project Description	Yerevan High School No. 139 After Karen Demirchyan was built in the 1960s, installed on the terrain with a large slope, as a result of which the floors on the first floors of the school buildings differ from each other up to 2.5 m. During operation in 1980-in the 1990s, new buildings were implemented with two side facades of a two - story building. The buildings are connected to each other by a single-storey corridor with a width of 6.0 m. At the design stage, studies were conducted to identify structural problems of existing buildings. In accordance with the technical report on the technical condition and seismic resistance ("SEISMANVTANGUTYUN" LLC, 07.11.2019), the following problems were identified: • Metal plates and mounting bolts at the junction of the housings do not have an appropriate anti-corrosion protective layer, as a result of which they have undergone widespread significant corrosion. Concrete applied to the nodes does not have sufficient compressive strength. • Precipitation waters periodically penetrated the structural elements of the building and caused moderately significant damage to the interior decoration and plaster. • There was a significant lateral displacement of precast reinforced concrete slabs of the buildings, as a result of which cracks with a gap width of up to 7 mm formed in the plaster of the ceiling of the joints/seams between the plates. • There are severe and significant damages in a significant part of the walls of the sport hall. In those areas of the walls where there is damage, erosion damage, stone stratification and displacements of up to 5 mm took place: • There are strong and significant damages in the partitions. In the damaged partitions there are through cracks in various directions with an opening width of 7-10 mm. The fastening of partitions with load-bearing structures is insufficient, there are cracks up to 10-15 mm on the plaster of the joints of their connection, and in some places-up to 20 mm wide of the opening. • As a result of the flexible connections between the wall panels of the buildings and the reinforced concrete frame, moderate shifts of the panels occurred, as a result of which cracks up to 4 mm wide were formed on the plaster of the seams inside the panels. • Most doors and windows of buildings have damages. • The technical condition of the floors and interior decoration of all buildings is unsatisfactory. • The slab around the building is in insufficient condition, as a result of which		

	precipitation water and surface water intensely penetrate into the ground, which leads to uneven sediment of soil. The relevant conclusion notes that, taking into account the features of the spatial planning and design solutions of the School number 139, the actual technical condition, service life, as well as the fact that the buildings are designed and built with the calculation of earthquake resistance 7-8 points, and in accordance with the HHSHN II -6.02-2006 standard, currently in force in the Republic of Armenia, seismic zoning map of the territory of the Republic of Armenia, The territory of Yerevan is located in the third seismic zone with an expected maximum acceleration of A_{MAX}= 0.4 G. In accordance with this, it was assumed that the costs of work to improve seismic safety would exceed reasonable technical and economic costs, therefore it is advisable to dismantle it and build a new one. Otherwise, it cannot be operated for the same operational purpose, since during a possible strong earthquake in the region, individual buildings may completely collapse, which will lead to human casualties and material damage. Taking into account the above, it was decided to dismantle the old school buildings and build new ones according to modern requirements. Final construction project of "**Yerevan High School N139 After Karen Demirchyan**" (new buildings) was compiled by AMAG LLC. As part of the reconstruction project, the secondary school provides for the educational needs of more than 600 students. The school is a complex of four main buildings (A, B, C, D). Buildings A, B and C are three-storeyed, but also have a technical floor on which communications are carried out. These buildings are mainly occupied by educational and training buildings. Classrooms, laboratories of chemistry, physics, biology with adjacent storage facilities are located in buildings A and C and also administrative block. The latter include offices, offices of the director and deputy director. On other floors in the same direction there are also bathrooms for teachers: On the first floor, next to the entrance, there was a medical center and situated office for teachers. There is also a primary military training class on the second floor, to which the walls of the weapons warehouse are attached, and balustrades are provided above the window and door. Recreation facilities provided in all educational blocks, in the right and left sleeves there are also bathrooms for girls and boys, as well as a separate bathroom for people with disabilities. As a rule, for the latter, the entire building and access to open areas are provided with ramps, an elevator with 4 stops. In the central part of the vestibule of building B there is an elevator and a staircase. The kitchen block of the buffet includes the necessary requirements for standards and has a separate entrance from the back of the building for staff and food supplies. On the second floor there is an extensive library, in the nodes of the two entrances of which there are separate sections of librarians. On the third floor there is an auditorium with 280 seats. Evacuation exits from the auditorium and library are provided to the metal staircase adjacent to the building. A resource center has been designed on 2-3 floors, an amphitheater in the center of which connects two floors with its stairs. Building D planned for sports building, designed only a sports hall, which has a separate exit for evacuation. Changing rooms (with showers and bathrooms), a property warehouse, coach's room, a bathroom for the disabled are located in Building C. The outdoor sports ground includes a universal sports core, a combined field for volleyball, basketball, a running track-a runway for athletics, a separate area for sports equipment. Since the outdoor sports area is elevated, a ramp and stairs are provided up: At the same time, the territory is maximally accessible from the evacuation exit of the sport hall. The whole school is designed to fencing. The school has 4 entrances that will provide direct access to firefighters and ambulances throughout the territory. On the territory adjacent to the boiler room, open parking is provided for staff cars and bicycles of

	schoolchildren. The territory is fully landscaped, benches and lamps will be installed. In front of the main entrance to the school a spacious paved area is provided. The whole school is provided for fencing. The school has 4 entrances that will provide direct access to firefighters and ambulances throughout the territory. On the territory adjacent to the boiler room, open parking is provided for staff cars and bicycles of schoolchildren. The territory is fully landscaped, and benches and lamps will be installed. In front of the main entrance to the school, a spacious paved area is provided. Since the duration of the construction works is estimated to be 26 months, appropriate arrangements will be made to ensure safe and convenient learning environment/working conditions for students/staff by relocating the school to the alternative premises in the School ********. The Ministry of Education, Science, Culture and Sport of RA will manage the process through issuing the respective decrees. The empty building of the high school will be handed over to Construction Contractor to carry out the civil works (Contractors have no duties related to transferring).
Name of Education Establishment	**Yerevan High School N139 After Karen Demirchyan**
Address and site location of a school	*N 3 N. Stepanyan str., Nor Nork administrative district, Yerevan, Republic of Armenia* The place of implementation of the program is located in the Nor Nork administrative district of Yerevan city. The site is situated in an urban area. All the works are envisaged to be implemented within existing school site.
Land Use	Land of school site and buildings on it are owned by the school / the Ministry of Education, Science, Culture and Sport of RA. The size of the land plot is 1.4363 ha. The total area of the school buildings is 8 598,4 m^2 (the copy of Certificate is provided as Attachment 3), the land is provided to **Yerevan High School N139 After Karen Demirchyan** / the RA The Ministry of Education, Science, Culture and Sport with the right of free use. There are no other business activities carried out on the school's land plot and inside the buildings. In total there are 31* trees growing on the land plot. 13 of trees will be cut down during the construction, and 50 new trees will be planted instead.
Brief Description of Physical and Natural Environment Around the Site; Social and Demographic Context	The natural and climatic conditions of the city of Yerevan are as follows: there is a sunny, dry climate, and the average annual air temperature is 8.8 -11.6 °C. The average annual temperature fluctuations are +31 ° C. Summers are long, typically hot and dry seasons. The average air temperature in July-August is 22-26 ° C; the maximum is 41.4 ° C. In summer, mountain-valley winds develop, reaching 15-20 m / sec. It is moderately cold in winter, permanent snow cover does not occur every year. The average temperature in January is -4 -6 ° C, the minimum is -31 ° C. Weak winds prevail in winter. Spring is short-lived, with a big change in weather. Annual precipitation ranges from 250-270 mm, the maximum is observed in May. The maximum freezing depth of the soil is 0.6 meters, according to the observations of the RA weather stations. The capital of Yerevan is located in the Northeastern part of the Ararat valley. It borders with Aragatsotn, Kotayk, Ararat and Armavir marzes. Yerevan is the capital of the Republic of Armenia. It is the largest not only in 49 cities of Armenia, but also among the capitals of historical Armenia. Yerevan is the largest economic center in the republic. The main trend in the multinational industry is the processing industry. In 2021 the share of the main sectors of the economy in the total volume of the relevant sectors of the economy made: □ Industry: 34.0% □ Agriculture: 1.2% □ Construction: 42.9% □ Retail: 69.7% □ Services: 86.8%. The main industries of Yerevan are food products, including beverages, chemical

	and metallurgical industries. Agriculture mainly specializes in animal husbandry and crop production. Freight transport is carried out by road and electric transport. The city has a train station and an airport that provides communication with the outside world. The Yerevan is located in II seismically active zones of Armenia. According to the probabilistic seismic zoning map of the RA, the expected horizontal acceleration of the Earth is 0.5 g.: The permanent population of YERVAN, according to official data, is 1 0920 800 people, of which 54% are women, and 46% are men. Currently, there are 426 students enrolled in high school (169 boys and 257 girls), as well as 49 people, are employed in the school (9 men and 40 women). The social outcomes of the sup-project are expected to be positive.
Location of the Nearest Licensed Construction Materials Sourcing, Quarry, and Water Source	Existing school is connected to water supply and sewerage utilities. Water for construction works will be taken from the source agreed with the Head of Community and School principal (if the school utilities are proposed to be used). Aggregates will be obtained from the licensed providers preferably within the sub-project area. Contractor may choose to extract aggregates himself, in which case contractor must obtain an extraction license prior to commencement of extraction. All the materials will be purchased from official suppliers. No hazardous materials (asbestos-containing materials, lead containing paints, etc.) shall be used during rehabilitation works.
LEGISLATION	
National &Local Legislation &Permits that Apply to Project Activity	Permits required for accomplishing the works envisaged by the project are as follows: • Construction license to be possessed by Construction Contractor, • Construction permit to be obtained by the Construction Contractor from municipality, • Mining license to be possessed by Construction Contractor in case it operates a borrow pit, • Agreement for disposal of construction waste to be obtained by Construction Contractor from the municipality. All applicable Construction Norms approved by the Ministry of Urban Development of RA Order #82 dated 01.10.2001 (as amended) must be adhered to.
PUBLIC CONSULTATION	
When / Where the Public Consultation Process Will Take/Took Place	Public consultation on the draft ESMP will take place on 27.06.2023 in YEREVAN city. Draft ESMP will be discussed, and the questions of attendees will be responded. Announcement on consultation was posted in the community before the meeting and particularly parents, teachers, and other school employees were informed (minutes of public consultation, the list of participants and photographs are presented in Attachment 7). The finalized ESMP will be disclosed on the CEP website. Brief information on the planned works and contact information for addressing questions and grievance will be placed at the work site and/or in its immediate surroundings
ATTACHEMENTS	
Attachment 1. Site Map Attachment 2. Photos of the site and interior of the building Attachment 3. Certificate of State Registration of the User Rights of Real Estate Attachment 4. Conclusion of the Structural Integrity and Seismic Stability Assessment of the Building Attachment 5. Construction permit (to be provided) Attachment 6. Agreement on Waste Disposal (to be provided) Attachment 7. Minutes of Public Consultation Meeting	

PART B: Safeguards information

ENVIRONMENTAL /SOCIAL SCREENING			
Will the site activity include/involve any of the following?	**Activity/Issue**	**Status**	**Triggered Actions**
	1. Building rehabilitation	[ ] Yes [x] No	If "Yes", See Section **A** below
	2. New construction	[x] Yes [ ] No	If "Yes", See Section **A** below
	3. Individual wastewater treatment system	[ ] Yes [x] No	If "Yes", See Section **B** below
	4. Historic building(s) and districts	[ ] Yes [x] No	If "Yes", See Section **C** below
	5. Acquisition of land[1]	[ ] Yes [x] No	If "Yes", See Section **D** below
	6. Hazardous or toxic materials[2]	[] Yes [x] No	If "Yes", See Section **E** below
	7. Impacts on forests and/or protected areas	[ ] Yes [x] No	If "Yes", See Section **F** below
	8. Handling / management of medical waste	[ ] Yes [x] No	If "Yes", See Section **G** below
	9. Traffic and pedestrian Safety	[x] Yes [ ] No	If "Yes", See Section **H** below
	10. Social risk	[x] Yes [ ] No	If "Yes", See Section **I** below

[1] Land acquisition includes displacement of people, impacts on livelihoods, encroachment on any private property, crops, trees, impacts to buildings or assets that are either owned, transferred, rented or illegally used, for example as a dwelling or to operate a business (kiosks, etc.).
[2] Toxic / hazardous material includes but is not limited to asbestos, toxic paints, noxious solvents, removal of lead paint, etc. The roof of the school is made of asbestos-containing tiles. Hazardous Waste Collection and Disposal activities in RA are regulated by the article 13 of RA Law on Waste, RA Government Decision N 2291 dated 17.01.2006, Order of Minister of Nature Protection N 97 dated 10.05.2007 and the injunction of the Minister of Nature Protection No. 430-N as of 25.12.2006.

PART C: Mitigation measures

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
0. General Conditions	Notification and Worker Safety	(a) Notify the local construction and environment inspectorates and communities of the upcoming activities (b) Notify the public of the works through appropriate notification in the media and/or at publicly accessible sites (including the site of the works) (c) Acquire all legally required permits for construction and/or rehabilitation (d) Provide workers' PPE compliant with international good practice (always hardhats, as needed masks and safety glasses, harnesses and safety boots) (e) Appropriate signposting of the sites will inform workers of key rules and regulations to follow.
A. General Rehabilitation and /or Construction Activities	Air Quality	(a) Use debris-chutes during interior demolition above the first floor (b) Keep demolition debris in controlled area and sprayed with water mist to reduce debris dust (c) During pneumatic drilling/wall destruction, suppress dust by ongoing water spraying and/or installing dust screen enclosures (d) Keep the surrounding environment (sidewalks, roads) free of debris to minimize dust (e) Disallow open burning of construction / waste material at the site (f) Disallow excessive idling of construction vehicles at sites
	Noise	(a) Limit construction noise to conventional working hours (b) Keep the engine covers of generators, air compressors and other powered mechanical equipment closed during operation, and place equipment as far away from residential areas as possible
	Water Quality	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) Identify waste collection and disposal pathways and sites for all major waste types expected from demolition and construction activities (b) Separate mineral construction and demolition wastes from general refuse, organic, liquid, and chemical wastes by on-site sorting and stored in appropriate containers (c) Collect construction waste and dispose properly to official landfills (d) Maintain the records of waste disposal as proof for proper management (e) Whenever feasible, reuse and recycle appropriate and viable materials (except asbestos)
B. Individual wastewater treatment system	Water Quality	(a) Have local authorities approve the approach to handling sanitary wastes and wastewater from construction sites (b) Before being discharged into receiving waters, treat effluents from individual wastewater systems to meet the minimal quality criteria set out by national guidelines on effluent quality and wastewater

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
		treatment (c) Wash construction vehicles and machinery only in designated areas where runoff will not pollute natural surface water bodies.
C. Historic building(s)	Cultural Heritage	(a) If rehabilitation works are being undertaken on a building which is enlisted as a historic/cultural heritage, ensure full compliance with additional requirements/regulations that may be imposed by cultural heritage preservation and management authorities (b) In case of encountering change find at work site, immediately take all activities on hold and promptly notify the Employer. Do not resume works till formal notification from the Employer.
D. Acquisition of land	Land Acquisition Plan/Framework	(a) If any form of involuntary resettlement was required to allow commencement of works in a given site, obtain formal assurance from the Employer on the process having been completed and compensations fully provided to the affected people prior to mobilizing to the site. (b) If involuntary resettlement had not been expected in the works site but its need emerges after commencement of works, do not enter into discussion/confrontation with the affected people; immediately take works on hold and promptly notify the Employer. Do not resume activity at work site until formal notice from the Employer and full resolution of the subject matter.
E. Toxic Materials	Asbestos management	(a) If asbestos is located on the project site, mark it clearly as a hazardous material (b) When possible, appropriately contain and seal asbestos material to minimize exposure (c) Treat the asbestos prior to removal (if removal is necessary) with a wetting agent to minimize asbestos dust (d) Handled and dispose the asbestos by skilled & experienced professionals (e) If asbestos material is stored temporarily, securely enclose it inside closed containments and mark appropriately. Take security measures against unauthorized removal from the site (f) Prevent reuse of the removed asbestos material
	Toxic / hazardous waste management	(a) Provide safe containers for temporarily storage of all hazardous or toxic substances; label them with details of composition, properties and handling information (b) Place containers of hazardous substances in a leak-proof container to prevent spillage and leaching (c) Transport the wastes by specially licensed carriers and dispose in a formal landfill (d) Do not use toxic ingredients or solvents, or lead-based paints
F. Affected forests, wetlands and/or protected areas	Ecosystem protection	(a) Do not damage or exploit any recognized natural habitats, wetlands and protected areas in the immediate vicinity of the activity. Prohibit any hunting, foraging, logging or other damaging activities by staff/personnel. (b) Undertake a survey and an inventory of large trees in the vicinity of the construction activity, mark and cordon them off with fencing, protect their root system, and avoid any damage to the trees (c) Protect adjacent wetlands and streams from construction site run-off with appropriate erosion and

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
		sediment control feature to include by not limited to hay bales and silt fences (d) Do not use any unlicensed borrow pits, quarries, or waste dumps.
G. Disposal of medical waste	Infrastructure for medical waste management	In compliance with national regulations,ensure 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; ▪ 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	Ensure 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.
I. Social risk	Public relationship management	(a) Assign local liaison person within Contractor’s team to be in charge of communication with and receiving requests/ complaints from local population (b) Consult local communities to identify and proactively manage potential conflicts between an external workforce and local people (c) Raise local community awareness about sexually transmitted disease risks associated with the presence of an external workforce and include local communities in awareness activities. (d) Inform the population about construction and work schedules, interruption of services, traffic detour routes and provisional bus routes, blasting and demolition, as appropriate. (e) Limit construction activities at night. When necessary ensure that night work is carefully scheduled, and the community is properly informed, so they can take necessary measures.

ACTIVITY	PARAMETER	MITIGATION MEASURES CHECKLIST
		(f) At least five days in advance of any service interruption (including water, electricity, telephone, bus routes), advice community through postings at the work site, at bus stops, and in affected homes/businesses. (g) Address concerns raised through Grievance Redress Mechanism established by the Employer within the designated timeline within the scope of Contractor's liability (h) To the extent possible, work camps should not be located in close proximity to local communities (i) Siting and operation of worker camps should be undertaken in consultation with neighboring communities
	Labor management	(a) The Contractor will recruit unskilled or semi-skilled workers from local communities to the extent possible. Where and when feasible, worker skills training, should be provided to enhance participation of local people. (b) The Contractor will provide adequate lavatory facilities (toilets and washing areas) in the work site with adequate supplies of hot and cold running water, soap, and hand drying devices. A temporary septic tank system should be established for any residential labor camp and without causing pollution of nearby watercourses (c) The Contractor will raise awareness of workers on overall relationship management with local population, establish the code of conduct in line with international practice and strictly enforce them, including the dismissal of workers and financial penalties of adequate scale.

PART D: MONITORING PLAN

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
CONSTRUCTION PHASE						
Mobilization of contractor	The community and the adjacent school administration has been notified of upcoming activities	at school principal's office	discussion/ observation	1 visit before construction commencement	Ensure stakeholder awareness on the upcoming works	CEP
	All legally required permits have been acquired	CEP's and construction contractor's offices	review of documents	1 visit before construction commencement	Ensure quality of works; Prevent disruption of future activities due to lacking documentation	
	PPE is provided to and used by workers	at construction site	inspection	monthly visits during construction	Prevent heath damage, trauma, and casualties among contractor's personnel	
Generation of emissions and dust	Construction site sprinkled / watered as needed in the course of dust-generating works; No open burning of construction / waste material at the site; No excessive idling of construction vehicles at	at construction site	inspection	monthly visits during construction	Prevent air pollution and minimize nuisance to nearby residents	CEP

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
	site					
Generation of noise	Construction noise limited to day-time hours	at construction site	inspection	monthly visits during construction	Minimize nuisance to nearby residents	CEP
Generation of waste	Locations for temporary storage of waste pre-identified and used accordingly; Construction waste regularly collected and disposed at the agreed site.	at construction site	inspection	monthly visits during construction	Prevent littering of work site, pollution of soil and ground water	CEP
Hazardous waste management such as asbestos, paints, solvents, etc.)	Removal of asbestos containing waste with minimal fragmentation to avoid dust generation; Temporary storage of removed asbestos under a cover in a designated location; Timely removal of asbestos containing waste to the designated disposal site in a covered truck; Covering of asbestos containing waste with a layer of earth at the site of its final disposal; Trained personnel using	at school site, at disposal site	Inspection, review of documents	regular visits	Prevent health hazards to construction workers and other people which may enter the construction site; Prevent health hazards to waste disposal workers and other people which may enter waste disposal site	CEP representatives; Inspectorate for Nature Protection and Mineral Resources Municipality

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
	appropriate PPE is involved in dismantling, transportation and disposal works					
Nuisance to nearby residents caused by improper parking of construction machinery and vehicles, temporary storage of construction material and waste, or littering around the construction site by contractors	No parking of construction vehicles and machinery outside the construction site; No blocking of pedestrian and vehicle movement around the construction site due to stockpiling/dumping of construction materials/waste; No trespassing of private land plots and/or other property around the construction site by contractor's personnel.	in the immediate vicinity of the construction site	inspection	monthly visits, or if notified by contractor or citizens	Prevent negative impacts on property, assets or livelihoods	CEP
Works in a children's institution	Works carried out when school is out of operation; Appropriate warning signs installed and clearly visible to warn public of all potential hazards; In case that the school premises are used during	at construction site	inspection	monthly visits during construction	Ensure safety of students and school employees	CEP

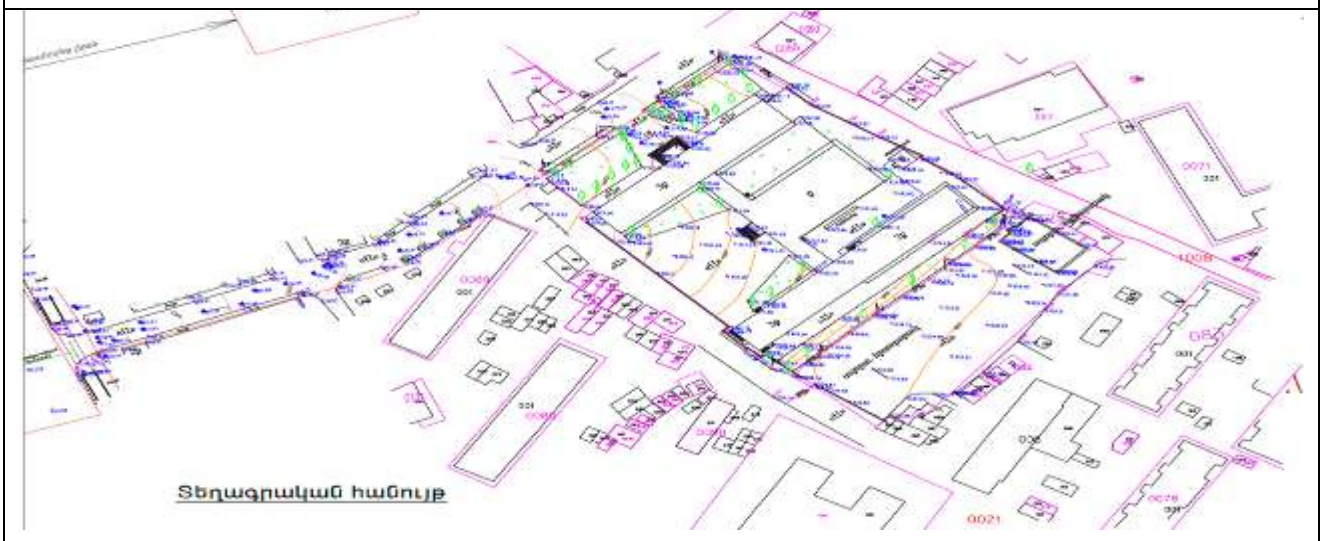
Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
	the time of construction (for extra-curricular programs, by school staff, etc.), their safety is guaranteed, and alternative arrangements made where necessary.					
Works within the settlement	Warning signs are installed and clearly visible to warn public of all potential hazards; Access to construction site is restricted to only authorized personnel involved in implementation of construction works; Access to construction site is strictly monitored; Safe passages for pedestrians are provided.	at construction site	inspection	monthly visits during construction	Ensure work site safety	CEP
Grievance and redress mechanism (GRM)	CEP and World Bank GRM information is available and visible to the public	at locations for posting GRM information; CEP office	inspection	monthly visits during construction	Provide for all citizens in the community a channel to voice questions, feedback or complaints related to construction works	CEP
O P E R A T I O N P H A S E						

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
School facility management	School facilities are properly operated and maintained, including heating and ventilation, power supply, etc.	at school site	Inspection, review of documents	regular visits	Provide safe and convenient education environment	Ministry of Education, Science, Culture and Sport
Solid waste management	Waste is regularly collected and transported from the school and disposed at the agreed site	at school premises	inspection, review of documents	regular visits	Maintain adequate sanitary conditions	Ministry of Education, Science, Culture and Sport
Water management	Water supply and sewerage systems are properly maintained and are in good operational conditions; Drainage systems are properly maintained and are in good operational conditions	at school premises	inspection, review of documents	regular visits	Maintain adequate sanitary conditions	Ministry of Education, Science, Culture and Sport
Daily operation of the school	Appropriate warning signs are installed and clearly visible to warn traffic on school located nearby, proper passages for pedestrian are arranged	at school premises	inspection, review of documents	regular visits	Provision of safe learning environment	Ministry of Education, Science, Culture and Sport; Road Police

Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
	First aid kit is available at the school, the staff is trained on how to provide first aid and contact nearby medical station / hospital; School area is properly fenced, handrails and stair are in good technical condition.	at school premises	inspection	regular visits	Provision of safe learning environment	Ministry of Education, Science, Culture and Sport
	Evacuation plans are posted on public areas in school and emergency exits are clearly marked, students and teachers are informed on activities to be undertaken in emergency situation; School in equipped with appropriate fire-fighting means.					Ministry of Education, Science, Culture and Sport; Ministry of Emergency Situations
Grievance and redress mechanism (GRM)	Ensure that GRM information is available and visible to the public.	at school site	inspection	regular visits	Ensuring that all citizens in the community have a channel to voice questions, feedback, or complaints related to the sub-project	Ministry of Education, Science, Culture and Sport

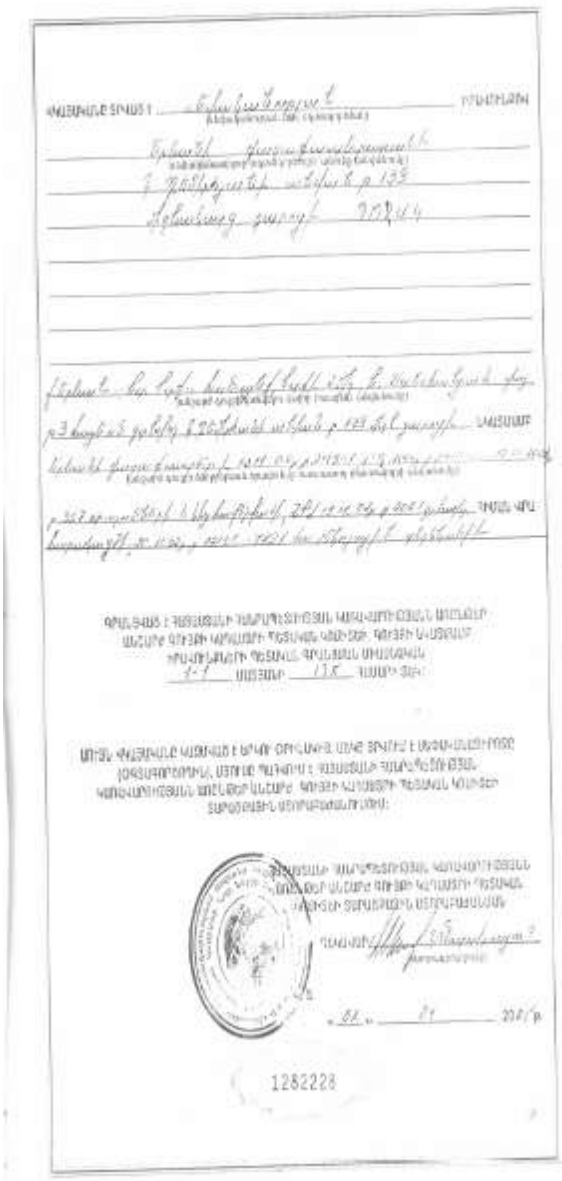
Activity	What (Is the parameter to be monitored?)	Where (Is the parameter to be monitored?)	How (Is the parameter to be monitored?)	When (Define the frequency / or continuous?)	Why? (Is the parameter being monitored?)	Who (Is responsible for monitoring?)
	Evacuation plans are posted on public areas in school and emergency exits are clearly marked, students and teachers are informed on activities to be undertaken in emergency situation; School in equipped with appropriate fire-fighting means.					Ministry of Education, Science, Culture and Sport; Ministry of Emergency Situations
Grievance and redress mechanism (GRM)	Ensure that GRM information is available and visible to the public.	at school site	inspection	regular visits	Ensuring all citizens in the community have a channel to voice questions, feedback, or complaints related to the sub-project	Ministry of Education, Science, Culture and Sport

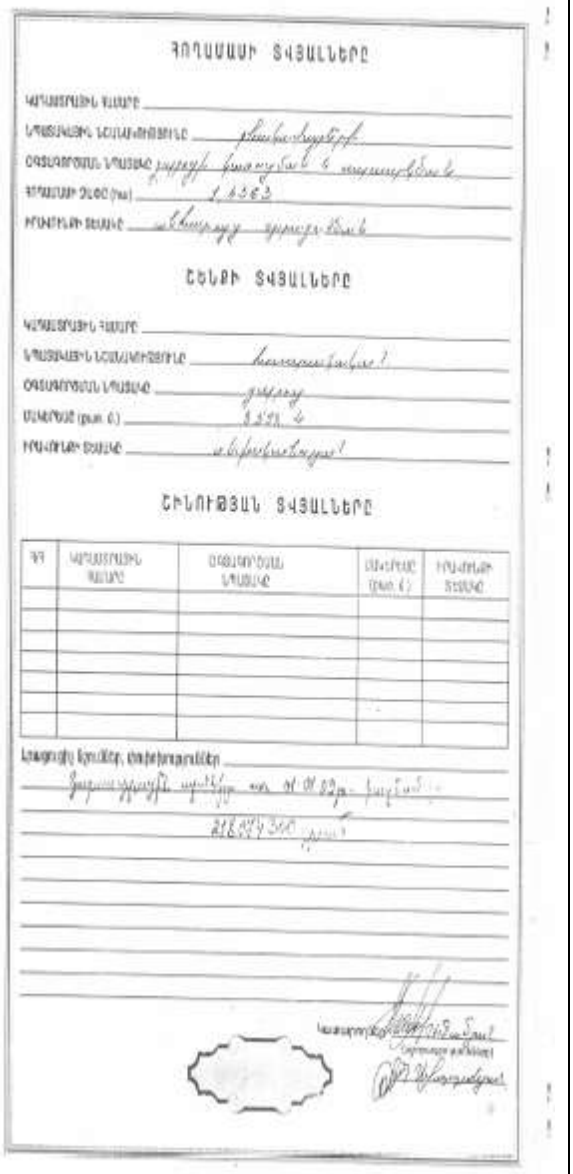
Attachment 1. Site Map



Attachment 2. Photos of the site

Attachment 3. Certificate of State Registration of the User Rights of Real Estate





Attachment 4. Summary of Results of Expert Examination of Structural Integrity and Seismic Resistance of the Building

(Summary provided in English. Original in the Armenian language is attached to this ESMP)

The detailed examination and assessment of the technical condition of the building of Yerevan High School N139 After Karen Demirchyan have been provided by SEISMANVTANGUTYUN LLC (Conclusion No EN-TH-19/10 on 07.11.2019 in the conclusion about technical condition of bearing and encompassing structures, its overhaul reconstruction, strengthening of bearing structures by increasing the level of seismicity, and capabilities).

The level of physical wear of separate constructive elements of separate structural elements of the school buildings was examined and determined.

The buildings were constructed in 1960s; they do not meet the requirements of the earthquake-resistant construction standards currently in force. The allowable level of reconstruction in accordance with the RA Construction Norms 20-16-2014 is accepted as "Increasing of seismic protection".

The technical condition of all buildings, is assessed as unsatisfactory, and the level of damage according to the RA existing construction norms and the criteria of the methodical instructions of the study, is of the 3rd degree(45%), i.e. unsatisfactory. The use of the constructive elements of buildings is possible only after capital repair. Only for boiler building the level of damage according to the RA existing construction norms and the criteria of the methodical instructions of the study, is of the 2nd degree(32%), i.e. satisfactory.

Taking into account the features of the spatial planning and design solutions of the School N139, the actual technical condition, service life, as well as the fact that the buildings are designed and built with the calculation of earthquake resistance 7-8 points, and in accordance with the HHSHN II - 6.02-2006 standard, currently in force in the Republic of Armenia, seismic zoning map of the territory of the Republic of Armenia, The territory of Yerevan is located in the third seismic zone with an expected maximum acceleration of AMAX= 0.4 G. In accordance with this, it was assumed that the costs of work to improve seismic safety would exceed reasonable technical and economic costs, therefore it is advisable to dismantle it and build a new one.

Otherwise, it cannot be operated for the same operational purpose, since during a possible strong earthquake in the region, individual buildings may completely collapse, which will lead to human casualties and material damage.

Attachment 5. Construction Permit

(to be obtained)

Attachment 6. Agreement for Waste Disposal

(to be obtained)

Summary provided in English

According to the agreement between XX and XX dated DD/MM/YYYY, waste generated during the construction of the Yerevan High School N139 After Karen Demirchyan will be disposed at *********.

Attachment 7. Minutes of Public Consultation Meeting

Appendix 1. List of participants of public consultation

Appendix 2. Photographs made during public consultation
