Environmental Management Framework (EMF) for the North-Caucasus Federal Okrug Local Initiatives Support Project Russian Federation

ENVIRONMENTAL SCREENING, ASSESSMENT AND MANAGEMENT

I. Potential Environmental Impacts

1. Environmental effects of the North-Caucasus Federal Okrug Local Initiatives Support Project (NCFO LISP), if any, will be minor and/or indirect. The project will include small scale construction works connected to renovation and reconstruction of social infrastructure. The proposed project would finance technical assistance and very small infrastructure using community development construction and processes. It would not finance any large civil works, construction, land acquisition or any related activities. Therefore the proposed project financed by the IBRD loan is not expected to have any adverse environmental impact. However, the micro-projects would finance small civil works and might have minor environmental impact. The civil works financed under the project would be mainly rehabilitative in nature, no new construction.

2. To allow the flexibility to accommodate exterior building expansion or to address environmental hazards as they may be encountered (e.g., asbestos), the project is rated as environmental assessment Category B according to WB OP 4.01 and simple environmental management plan checklists will be prepared for all construction sites.

3. These plans will be prepared in accordance with World Bank guidelines and the Borrower’s legal and regulatory framework. It will state the foreseen environmental impacts and provide good operational practice to control emissions (e.g., dust, noise, and exhaust fumes), wastewater discharge and solid waste management on the construction site. It will provide guidance on avoiding the use of hazardous substances, such as toxic paints, solvents or cleaning agents. It will include traffic safety (especially focusing on pedestrian safety) in the immediate vicinity of the construction sites, as necessary. It also will address steps to be taken if any cultural heritage elements (e.g., wall frescos, culturally valuable facades etc.) are encountered during the implementation of civil works.

4. Project activities will not change boundaries, ownership or usage rights in private urban land, forest lands or protected areas. However, project activities may improve the accessibility of information on boundaries, ownership and use rights of these areas.

5. The project will not support land acquisition and associated involuntary resettlement. The project also does not support eviction or similar enforcement of laws addressing illegal occupation of state land. All civil construction works planned will be executed on
existing land plots which are already in the possession of the respective local governments and executing agencies.

6. The World Bank would finance TA that would help communities use/develop the environmental checklists and mitigation measures for micro-projects. Micro-projects entailing rehabilitation, maintenance, and upgrading usually will have much more limited impacts than new construction, but may require attention to existing environmental problems at the site. Therefore, an environmental screening (inspection) would be more useful in fulfilling the environmental assessment needs for such projects.

7. The aim of environmental inspection in the proposed LISP is twofold: (i) to ensure that micro-projects with negative environmental impact are not financed; and (ii) to ensure that approved micro-projects are implemented in an environmentally acceptable manner. Potential environmental impacts are identified early during the review of the proposal for a micro-project. For projects under implementation, the environmental inspection will complement the check for compliance with national environmental legislation. The process would include a detailed review of the technical proposal (specification) for small works with respect to defining the type and scale of the potential environmental impact and risk. The proposed World Bank project would finance TA activities that would help: (i) the government to develop such guidelines; and (ii) settlements to implement environmentally sound micro-projects.

II. Environmental Management Approach

8. For low-risk typologies, such as public buildings rehabilitation activities, a more streamlined approach to preparing EMPs for **minor rehabilitation or small-scale building construction will be used**. This checklist-type format ("EMP Checklist", see Annex for a blank sample) has been developed to provide "pragmatic good practice" and designed to be user friendly and compatible with safeguard requirements.

9. The checklist-type format attempts to cover typical mitigation approaches to common civil works contracts with localized impacts. It is anticipated that this format provides the key elements of an Environmental Management Plan (EMP) or Environmental Management Framework (EMF) to meet World Bank Environmental Assessment requirements under OP 4.01. The intent is that this checklist would be directly usable and applicable in bidding documents and as an integral part of contract documents for civil works under Bank-financed projects.

10. The checklist has three sections:

   - **Part 1** includes a descriptive part ("site passport") that characterizes the project and specifies in terms the institutional and legislative aspects, the technical project content, the potential need for capacity building program and description of the public consultation process. This section could be up to two pages long. Attachments for additional information can be supplemented when needed.
Part 2 includes the environmental and social screening in a simple Yes/No format followed by mitigation measures for any given activity. All relevant mitigation measures should be taken to comprise the Environmental Mitigation Plan for the particular project. Any mitigation measures which are not relevant to the project can be deleted or crossed out. Project-specific mitigation measures can also be added if appropriate.

Part 3 represents the monitoring plan for activities during project construction and implementation. It retains the same format recommended for EMPs proposed under normal Bank requirements for Category B projects. It is the intention of this checklist that Part 2 and Part 3 be included as bidding documents for contractors.

III. Application of the EMP-Checklist

11. The design process for the envisaged civil works in the Second Land Registration Project will be conducted in three phases:

   i) General identification and scoping phase, in which the objects for rehabilitation, extension and/or demolition and complete reconstruction are selected and an approximate program for the potential work typologies elaborated. Part 2 of the tabular EMP can be used to select typical activities from a “menu” and relate them to the typical environmental issues and mitigation measures.

   ii) Detailed design and tendering phase, including specifications and bills of quantities for individual objects, integrating environmental provisions in form of a tabular EMP (see Annex 2). This phase also includes the tender and award of the works contracts and in this phase the Contractor’s obligations for environmental measures during the works are contractually fixed.

   iii) During the works implementation phase environmental compliance is checked on site alongside other quality criteria by the PIU’s site certified inspector(s). The monitoring plan in Part 3 of the EMP table in Annex 2 is that basis to verify the Contractor’s compliance with the required environmental provisions.

12. The practical application of the EMP-checklist would include the filling in of Part 1 to obtain and document all relevant site characteristics. In Part 2 the type of foreseen works, as obtained from the design documents, would be checked and the resulting provisions listed below highlighted (e.g. by hatching the field or copy pasting the relevant text passages into the special provisions of the tender documents.

13. The whole filled in tabular EMP is additionally attached as integral part to the works contract and, analogous to all technical and commercial terms, has to be signed by the contract parties.

MONITORING AND REPORTING
14. For the monitoring of the Contractor’s safeguards due diligence the designated construction inspector works with Part 3 of the EMP Checklist, the monitoring plan. This should be developed site specifically and in necessary detail, defining clear criteria and parameters which can be included in the works contracts, which reflect the status of environmental practice on the construction site and which can be observed/measured/quantified/verified by the inspector during the construction works.

15. Part 3 would thus be filled in during the design process to fix key monitoring criteria which can be checked during and after works for compliance assurance and ultimately the Contractor’s remuneration.

16. Such parameters and criteria include the use of PPE by workers on the site, dust generation and prevention, amount of water used and discharged by site, presence of proper sanitary facilities for workers, waste collection of separate types (mineral waste, wood, metals, plastic, hazardous waste, e.g. asbestos, paint residues, spent engine oil), waste quantities, proper organization of disposal pathways and facilities, or reuse and recycling wherever possible.

17. The site inspector’s monitoring report would be a condition for full payment of the contractually agreed remuneration, the same as technical quality criteria or quantity surveys. To assure a degree of leverage on the Contractor’s environmental performance an appropriate clause will be introduced in the works contracts, specifying penalties in case of noncompliance with the contractual environmental provisions, e.g. in the form of withholding a certain proportion of the payments, its size depending on the severity of the breach of contract. For extreme cases a termination of the contract shall be contractually tied in.
## ANNEX: EMP Checklist for Construction and Rehabilitation Activities

### PART 1: INSTITUTIONAL & ADMINISTRATIVE

<table>
<thead>
<tr>
<th>Country</th>
<th>Russian Federation</th>
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</thead>
<tbody>
<tr>
<td>Project title</td>
<td></td>
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<tr>
<td>Scope of project and activity</td>
<td></td>
</tr>
</tbody>
</table>

### Institutional arrangements

- **Name and contacts**:
  - WB (Project Team Leader)
    - Peter Pojarski
    - ppojarski@worldbank.org

### Site Description

#### Name of site

Describe site location

#### Who owns the land?

What type of the territorial zone is it?

#### Description of geographic, physical, biological, geological, hydrographical and socio-economic context

Locations and distance for material sourcing, especially aggregates, water, stones, etc.

### Legislation

Identify national & local legislation & municipal regulations & permits that apply to project activity

### Public Consultation

Identify when / where the public consultation process took place

### Institutional Capacity Building

Will there be any capacity building?

[ ] N or [ ] Y if Yes, Attachment 2 includes the capacity building program
## PART 2: ENVIRONMENTAL /SOCIAL SCREENING FOR SAFEGUARDS TRIGGERS

<table>
<thead>
<tr>
<th>Activity/Issue</th>
<th>Status</th>
<th>Triggered Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Roads or building rehabilitation</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section A below</td>
</tr>
<tr>
<td>B. New construction of small structures or infrastructure</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section A below</td>
</tr>
<tr>
<td>C. Impacts on surface drainage system or water object</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section B below</td>
</tr>
<tr>
<td>D. Historic building(s) and districts</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section C below</td>
</tr>
<tr>
<td>E. Acquisition of land(^1)</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section D below</td>
</tr>
<tr>
<td>F. Hazardous or toxic materials(^2)</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section E below</td>
</tr>
<tr>
<td>G. Impacts on forests, wetlands and/or protected areas</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section F below</td>
</tr>
<tr>
<td>H. Risk of unexploded ordinance (UXO)</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section G below</td>
</tr>
<tr>
<td>I. Traffic and Pedestrian Safety</td>
<td>[ ] Yes [ ] No</td>
<td>If “Yes”, see Section H below</td>
</tr>
</tbody>
</table>

### ACTIVITY PARAMETER MITIGATION MEASURES CHECKLIST

#### A. 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 and/or rehabilitation
  - (d) The Contractor formally agrees all work will be carried out in a safe and disciplined manner designed to minimize impacts on neighbouring 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.

#### B. General Rehabilitation and/or Construction Activities
- **Air Quality**
  - (a) During excavation works dust control measures shall be employed, e.g. by spraying and moistening the ground
  - (b) Demolition debris, excavated soil and aggregates shall be kept in controlled area and sprayed with water mist to reduce debris dust
  - (c) During pneumatic drilling or breaking of pavement and foundations dust shall be suppressed by ongoing water spraying and/or installing dust screen enclosures at site
  - (d) The surrounding environment (side walks, roads) shall be kept free of soil and debris to minimize dust
  - (e) There will be no open burning of construction / waste material at the site
  - (f) All machinery will comply with the design documentation\(^3\) (emission regulations), shall well maintained and serviced and there will be no excessive idling of construction vehicles at sites

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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, PCB, etc.

\(^3\) Constricted management project and Production design work – in Russian language.
### Noise
(a) Construction noise will be limited to restricted times agreed to in the design documentation (norms)
(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 canalization and nearby streams and rivers

### Waste management
(a) Waste collection and disposal pathways and sites will be identified for all major waste types expected from excavation, demolition and other 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 Contractor will reuse and recycle appropriate and viable materials (except when containing asbestos)

### C. Individual wastewater treatment system (impacts on surface drainage system or water object)
(a) There will be no unregulated extraction of surface and groundwater, nor uncontrolled discharge of process waters, cement slurry, or any other contaminated waters into the ground or adjacent streams or rivers; the Contractor will obtain all necessary permits for water extraction and regulated discharge, including discharge into the public wastewater system.
(b) There will be proper storm water drainage systems installed and care taken not to litter, pollute, block or otherwise negatively impact natural streams, rivers, ponds and lakes by construction activities
(c) There will be procedures for prevention of and response to accidental spills of fuels, lubricants and other toxic or noxious substances
(d) Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies

### D. Historic building(s) and districts
(a) If construction works take place close to a designated historic structure, or are located in a designated historic district, notification shall be made and approvals/permits be obtained from appropriate local authorities (architectural council) 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 artefacts 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.

### E. Acquisition of land
(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

### F. Toxic Materials
(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 be 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

### Asbestos management
(a) Temporarily storage on site of all hazardous or toxic substances will be in safe containers labeled with details of composition, properties and handling information
(b) The containers of hazardous substances shall be placed in an leak-proof container to prevent spillage and leaching
(c) The wastes shall be transported by specially licensed carriers and disposed in a licensed facility.
(d) Paints with toxic ingredients or solvents or lead-based paints will not be used
| **G. Affected forests, wetlands and/or protected areas** | **Ecosystem 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. |
| **H. 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 |
| **I. 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  
- If required, active traffic management by trained and visible staff at the site for safe passage for the public  
- Ensuring safe and continuous access to all adjacent office facilities, shops and residences during construction |
| **G. Site Investigation Works Preparation** | **Respecting property rights** | (a) Researching and clarifying site ownership  
(b) Ensuring owner’s written or verbal consent before accessing site  
(c) Notification of owners of commencement of works, if required prepare and sign a works completion handover protocol  
(d) Notification of owners of all activities and any site damages  
(e) Notification of owners of termination of works, if required prepare and sign a works completion handover protocol |
| **K. Site Investigation Works Execution** | **Protection of natural environment and biodiversity** | (a) Minimizing staff presence and vehicle traffic,  
(b) Sticking to existing roads and tracks as much as possible,  
(c) Backfilling test pits and boreholes,  
(d) Protecting surface and groundwater resources  
(e) Preventing any harvesting of plants or poaching of wildlife by site personnel  
(f) Restoring surface and vegetation where it has been significantly disturbed  
(g) Taking out all waste after completion of the assignment  
(h) Executing safety routing for staff and by-passers, securing work areas and restricting access during hazardous activities (e.g. during use of explosives for seismic investigations)  
(i) Ensure that provisions are put in place so that any cultural artifacts or other possible “chance finds” encountered during field works are noted and registered, secured, responsible officials contacted, and further activities delayed or modified to account for such finds. |
**PART 3: MONITORING PLAN**

<table>
<thead>
<tr>
<th>Phase</th>
<th>What (Is the parameter to be monitored?)</th>
<th>Where (Is the parameter to be monitored?)</th>
<th>How (Is the parameter to be monitored?)</th>
<th>When (Define the frequency / or continuous?)</th>
<th>Why (Is the parameter being monitored?)</th>
<th>Cost (if not included in project budget)</th>
<th>Who (Is responsible for monitoring?)</th>
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<tbody>
<tr>
<td>During activity preparation</td>
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<td>During activity implementation</td>
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<td>During activity supervision</td>
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