


GUIDELINES FOR THE EXECUTION OF THE CONTRACT ON ENVIRONMENTAL AND
SOCIAL POLICIES OF THE WORLD BANK
CONTRACT 4A.3.1/k -POLRAD WEATHER RADAR MODERNIZATION – DEMOLITION
OF THE METEOROLOGICAL RADAR TOWER – GDAŃSK RĘBIECHOWO

Check-list for environmental and social activities

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PART 1: GENERAL INFORMATION ABOUT THE PROJECT AND LOCATION

INSTITUTIONAL AND ADMINISTRATIVE INFORMATION				
Country	Poland			
Project title	Contract 4A.3.1/k – POLRAD Weather Radar Modernization – demolition of the meteorological radar station – Gdańsk Rębiechowo			
Scope of the project and activities	<p>As part of the 4A.3.1/k Contract Task, the Contractor shall carry out the following works:</p> <p>Demolition of the meteorological radar tower and associated infrastructure, including:</p> <ul style="list-style-type: none"> • dismantling of the radar device, • dismantling of the housing and steel structure of the radar tower, together with waste disposal, • demolition of reinforced concrete foundations along with waste disposal, • demolition of paved yards and fencing of the plot together with waste disposal; • learing, leveling of the site and leaving it to succeed on its own. 			
Institutional solutions (Name / First name and surname as well as contact details)	OVFM PCU		The Employer	
			Institute of Meteorology and Water Management – National Research Institute in Warsaw (IMGW-PIB)	
Implementation (Name / First name and surname as well as contact details)	EMP Coordinator	Supervision carried out by the Supervision Inspector	Contractor	Contact person
			Consortium INSTAL Warszawa S.A. and Leonardo Germany GmbH	
LOCATION DESCRIPTION				
Location name	Weather radar station in Gdańsk Rębiechowo			
Description of the location	<p>The planned demolition will be located on plot of land evidentiary number 2/1, Bysewo, Gdansk County, Pomeranian Voivodeship.</p> <p>The area of plot of land no. 2/1 within Bysewo is 0.03 hectares and includes, among other things, the area under the existing tower to be demolished, within the fenced area of the plot.</p> <p>The plot is located on the territory of the Lech Walesa Airport.</p> <p>The subject of the investment is the dismantling of the radar device and the demolition of the radar tower along with the associated infrastructure and fencing.</p> <p>The site will be cleared, leveled and left to succeed on its own, in connection with the planned development of the area, resulting from the development of the airport.</p>		 <p style="text-align: center;">Terrain map [] YXN</p>	
Who is the owner of this area?	Lech Walesa Airport (sharing of land for IMGW-PIB)			

Description of the geographic, physical, biological, geological, hydrographic and socio-economic context

Geological structure - The investment area is located within the Kashubian Lake District mesoregion (313.51), Pobrzeże Gdańskie macroregion. The mesoregion has many types of coastal landscape, however, two landscape elements dominate: clumps and proglacial valleys, making the relief more varied compared to neighboring mesoregions, referring somewhat to lake district relief. The Kashubian Lake District has a simple geological structure. At the surface, there are deep-seated sediments of sands, clays, marls, till and limestone.

Due to the nature of the project, no impact of the investment on the geological conditions is expected.

Soil conditions - The area of the airport and plot 2/1 is classified as anthropogenic soils with a transformed profile, formed on clays. These soils are not planned for agricultural production due to their location in the area designated for airport development.

Due to the nature of the project and its point source character, the impact of the project on soils is not expected.

Surface waters - the investment area is located in the catchment area of the Surface Water Body with the European code RW60006115838 RW200017486849 Strzelenka with lake Tuchomskie.

The planned investment will not create a threat to the achievement of environmental objectives for surface water bodies.

The project area receives an average of approximately 600 mm of precipitation per year. Rainwater and snowmelt will be discharged into the ground spontaneously, flowing off the radar. The project area is not expected to create paved areas during the demolition phase. It is envisaged to create new green areas. In addition, rainwater will not flow to adjacent plots of land.

The demolition of the meteorological radar tower and its associated infrastructure does not involve risks to the ground and water environment.

Flood risk areas

According to the flood hazard maps and flood risk maps published on the 22nd of October 2020, the investment area is not located in an area of particular flood risk.

Groundwater - in terms of groundwater, the analysed area is located within the limits of the groundwater body (GWB) with a code PLGW200013, which has a good chemical status, good quantitative status, and therefore good general condition. The GWB, based on the status analysis, has been identified as not at risk for achieving environmental objectives. The area is also located within the boundary of the main groundwater reservoir (GZWP) No. 11 - Subniecka Gdanska.

Impact on surface and underground waters

It is planned to demolish the radar tower and its associated infrastructure, facilities that do not require a permanent water supply for either technological or social purposes.

No potential contamination of surface water and shallow circulating groundwater is diagnosed during the demolition phase due to the proper technical condition of construction machinery and equipment.

Landform and water system

No areas or sites filled with stagnant water, watercourses or ditches were observed on plot 2/1. No other hydrated or wet areas or ponds were identified.

Landscape

The object covered by this checklist, i.e. the weather radar station, is located in the area of the airport in Gdansk Rebiechowo, which is a heavily urbanized area. Due to the development rules of the airport area, the radar tower is one of the tallest structures in the area and has obstacle painting, so it is visible in its area. However, due to the technical nature of its surroundings and the object's long presence in the

landscape, it has blended in with its surroundings. Demolition of the tower may not have a significant impact on the landscape due to the heavily technical nature of the airport area, or it may have a positive impact.

No negative impact of the demolition works on the landscape is diagnosed.

Air condition

In connection with the demolition of the meteorological radar and associated infrastructure, there will be traffic of passenger vehicles, as well as vehicles associated with the transportation and disposal of waste from the demolition work. This will be about 100 trips for the entire duration of the demolition, i.e. about 4 weeks, and several passenger cars per day. Due to the lack of interference with the existing infrastructure, as well as the above-described traffic, a Traffic Organization Plan is not required.

The nuisance of the planned project during the period of demolition work will be associated with the possibility of temporary, mainly limited to the area of the work, increased emissions of dust and gases, associated with the operation of machinery, cutting, earthworks. Due to the unorganized nature of the emissions, their variability over time, and the short duration of their occurrence, these emissions are difficult to estimate, but are not expected to have a permanent impact on the state of air quality. It will be of short-term and local nature.

A short-term, local impact on air quality is diagnosed to occur during demolition works, but this would cease with the completion of the works.

Acoustic climate

At the stage of demolition work of the project in question, noise will be a nuisance at a distance of up to 100 m from the machinery in operation or work in progress. The greater the distance from the emitter, the greater the decrease in sound power. Taking into account the location of the nearest buildings (about 190 m), the stage of demolition will not be associated with inconvenience and exceedance of acceptable standards.

Demolition of the steel structure will be carried out by manual demolition method and with the help of hydraulic machines that do not cause vibration and oscillation. Demolition of the reinforced concrete foundation will be carried out with the help of jackhammers, which will generate vibration for a short period (about 7 days).

For the average sound power level calculated for the sample 4 emitters (98.1 dB), noise propagation at a distance of 150m from the source will be 54.6dB. Due to land use, the subject area should be considered as airport and farmland areas, which are not protected in accordance with the Regulation of the Minister of Environment of June 14, 2007 on permissible levels of noise in the environment (Journal of Laws 2014, item 112).

The plot is located in Zone A of the Restricted Use Area for the Gdansk airport, and in an area where the acoustic background from the airport is 60-65 dB.

For the duration of the demolition work, i.e. about 4 weeks, there will be about 100 truck trips, which can emit noise of up to 102 dB, They will take place between 6:00 am and 10:00 pm.

Noise emissions at the construction stage are temporary and will cease with the completion of the works.

Flora, fungi biota and plant communities

The area of the Gdansk Rebiechowo radar station and, at the same time, the future investment does not constitute a feeding ground for large mammals.

The avifauna and herpetofauna of the area is characteristic of urbanized areas, but quite sparse due to the neighboring airport. During the site visit, no invertebrates were observed in the study area.

No protected species of fungi or lichens were found, nor were species of polychaete fungi.

No valuable and protected natural habitats were found within the plot where the radar station is located and in the surveyed 100 m buffer. The plot is overgrown with a regularly mowed, seeded lawn, and about half of the plot is paved with cobblestones (overgrown).

Elements of the environment protected under the Act of the 16th of April 2004 on the protection of nature and ecological corridors (within a radius of 10 km):

The project site is not located in the area of any forms of nature conservation, nor will it affect the forms of nature conservation in its surroundings.

Forms of nature conservation within 5 km are described in Table 2 of the General Environmental Management Plan - Guidelines for the Contractor 4A.3.1. Contract - POLRAD weather radar modernization and the map of investment location against the background of nature protection forms can be found in Annex 6k Location Map of the 4A.3.1 Contract against the protected areas – GDANSK REBIECHOWO to the above-mentioned document.

Cultural heritage

There are no historic buildings or archaeological protection zones in the area of the planned project or in its immediate vicinity.

The planned investment will not have a negative impact on the cultural heritage or, in the event of finding objects of historic importance, it will have a negligible impact.

Adjacent areas

The implementation of the project will not have a significant negative impact and will not alter the areas adjacent to the plot. The project site is located in the vicinity of agricultural areas and the airport. The nearest buildings not belonging to the Investor are located at a distance of about 130 m to the south (the technical building of the airport) and about 190 m to the west (homestead buildings).

Materials used

Only environmentally safe, non-toxic materials will be used during demolition. Dismantled waste will be stored in a designated place, in a paved area on the site. Since hazardous materials will not be stored, they do not require additional protection.

The waste that will be generated during demolition is about 17 tons of scrap metal, 60 m³ of concrete and concrete rubble, 100 m³ of excavated earthworks and other mixed waste.

The subcontractor will be responsible for the transfer and disposal of the waste and will provide the relevant documents confirming the disposal. Steel waste will be cut with hydraulic shears to the size of the waste container. Rubble and concrete waste will not be further crushed at the construction site.

Waste from the dismantled tower not intended for further use or recycling, will be stored in designated containers at the designated site and hauled away by an authorized entity.

The materials behind the dismantled radar tower structure will be destined for further use or recycling.

SUMMARY

There are no wetlands and therefore no hydrogenic ecosystems in the area designated for the project.

As a result of the radar tower demolition, there will be no degradation of regionally and nationally valuable species sites and natural habitats.

The implementation of the investment will not adversely affect the habitats and species of flora, fauna and fungi.

In the case of the planned Investment, there is no possibility of direct or indirect impact of the planned modernisation facilities resulting in loss, fragmentation or modification of habitats. The investment will be located on a small area.

	The investment will not have a negative impact on the forms of nature protection.
Locations and distances to places where materials can be obtained, especially aggregates, water, stone?	not applicable
LEGISLATION	
Identification of the national and local laws and permits applicable to the project activities	<p>These issues are described in detail in Annex 3 <i>List of legal acts related to environmental protection</i> to the General Environmental Management Plan - Guidelines for the Contractor for the Contract 4A.3.1. POLRAD Weather Radar Modernisation</p> <p>Demolition permit obtained by Decision No. 19R/2022/LH of the Pomeranian Voivode dated 12.09.2022, mark: WI-II.7841.1.13.2022.LH</p>
Identify when/where the public consultation process took place	Public consultation on the check-list is not necessary. (see Part 3 for additional information)
INSTITUTIONAL CAPACITY BUILDING	
Will there be any capacity building?	<input checked="" type="checkbox"/> N or <input type="checkbox"/> Y if yes, Annex 2 contains a capacity-building program

PART 2: INFORMATION ON PREVENTION OF ENVIRONMENTAL IMPACTS

ENVIRONMENT / SOCIAL RESEARCH			
	Activity	Status	Triggered actions
Will the activity at the project site include / relate to any of the following?	A. Construction works	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See point A and B below
	B. Small-scale new construction	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See point A and B below
	C. Individual sewage treatment system	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See point C below
	D. Historical building(s) and districts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See point D below
	E. Land occupation ¹	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See point E below
	F. Hazardous or toxic materials ²	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See point F below
	G. Nature protection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See point G below
	H. Traffic and pedestrian safety	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See point H below

¹ Land occupations include displacement of people, change of living conditions, encroachment on private land i.e. land that is being acquired/transferred and this affects people who live and/ or are squatters and/or run businesses on the occupied land.

² Toxic / hazardous material includes but is not limited to asbestos, toxic paints, harmful solvents, lead paint removal, etc.

PART 3: MITIGATING ACTIONS

ACTIVITY	PARAMETER	CHECK-LIST OF MITIGATING ACTIONS
A. General conditions for the execution of works	Appropriate organisation and work safety	<ul style="list-style-type: none"> (a) Local building and environmental inspectorates and the local community have been informed of upcoming activities. (b) The public has been informed of the works through appropriate media notification and/or publicly available websites (including the location of the works). (c) All legally required demolition permits have been obtained. (d) The contractor formally undertakes that all work will be carried out in a safe and disciplined manner designed to minimise the impact on surrounding residents and the environment. (e) Health and safety supervision has been established, which will be responsible for appropriate marking (including informing employees about key rules and regulations that must be followed) and securing the demolition site. (f) The personal protective equipment of employees will be in line with international good practice (helmets are always required, if necessary masks and safety goggles, harnesses and safety shoes) (g) The work area will be properly secured and marked. If the possibility of the presence of hazardous areas that pose a threat to human life and health is identified, they will be marked with warning signs and secured against unauthorised access. (h) The equipment, machines or tools used during the works must comply with the quality requirements for the Works, health and safety regulations as well as Contractor's Health and Safety Plan (if required) and must not cause damage to the existing infrastructure and elements of the development and landscaping. The contractor will apply the principles of HIV-AIDS and SARS-CoV-2 - COVID-19 prevention. (i) The Contractor shall develop and submit, for approval by the PIU, the procedures related to the World Bank's ES Code of Conduct (environmental, social, health and safety aspects), which are governed by national laws regulating environmental protection, health and safety and labour law. (j) The Contractor is obliged to report all accidents involving employees and bystanders to the PIU, as well as incidents significant from the point of view of the ES Code of Conduct.
B. Modernization works on the radar station	Air quality	<ul style="list-style-type: none"> (a) The Contractor's vehicles must not pollute the surrounding environment (pavements, roads). (b) Additional measures such as sprinkling of demolition work facilities and technological roads should be done to reduce dust. (c) During the works, leaving vehicles and machines idling will be limited to the necessary minimum. (d) Only vehicles, machines and devices complying with current emission standards will be used.
	Noise	<ul style="list-style-type: none"> (e) The noise related to the demolition works will be limited to the working hours (6.00 - 22.00). (f) Vehicles, machines and devices that ensure reduction of the noise to the applicable regulations and standards shall be used. (g) During operation, the engine covers of generators, air compressors and other power-driven mechanical equipment should be kept closed and the equipment placed as far as possible from the residential areas.
	Water	<ul style="list-style-type: none"> (h) Demolition work facilities shall be protected from the ingress of possible contaminants. The area where the demolition work facilities will be located is partially paved.
	Soils	<ul style="list-style-type: none"> (i) If it is necessary to destroy the topsoil, the topsoil shall be collected, stockpiled, and then used for recultivation.

		<p>(j) Demolition work site should be protected from the ingress of possible contaminants.</p> <p>(k) In the event of emission of petroleum contaminants to the soil surface, immediate measures must be taken to prevent the spread of contamination and the contaminated soil must be removed without delay, and then disposed of properly as waste.</p>
	Waste management	<p>(l) Waste segregation, storage and disposal paths and locations will be identified for all types of waste expected as a result of the works and designated by the Site Manager.</p> <p>(m) Waste should be handed over to authorized entities for further management, recycling or disposal.</p> <p>(n) Records of waste disposal shall be maintained as evidence of proper management as designed.</p>
C. Individual sewage treatment system	Water quality	<p>(a) Social and domestic sewage shall be collected in sealed, non-returnable containers, the content of which shall be transferred to entities holding appropriate permits for their further management (in case of lack of access to the sewage system).</p>
D. Monument (s)	Cultural heritage	<p>(a) Conduct earthworks such as demolition of foundations, paved yards and others with due care.</p> <p>(b) In the event of finding objects that may have or have a historical value, the works should be immediately stopped, the area should be secured and the environmental supervisor as well as the Pomorski Voivodeship Conservator of Monuments should be notified.</p>
E. Land acquisition	Land acquisition plan / framework	NOT APPLICABLE (works will be carried out on land that IMGW-PIB owns and/or leases/uses there is no need to acquire land for permanent or temporary use)
F. Toxic materials	Toxic / hazardous waste management	<p>(a) If hazardous waste is present, it will be segregated and stored in separate, designated containers, protected against the effects of the weather.</p>
G. Nature protection	Protected areas, natural habitats, protected species	<p>(a) The actions concerning re-assessment of classification of the activities with regard to the obligation to obtain an environmental decision, as well as acquisition of any relevant permits and decisions, are the responsibility of the Contractor. The Contractor is obliged to inform the PIU on an ongoing basis about the actions taken to obtain administrative decisions and the arrangements made with environmental and nature protection authorities regarding the activities carried out under the Contract. The above-mentioned administrative decisions shall be obtained by the Contractor on behalf of the Employer on the basis of relevant powers of attorney issued.</p> <p>(b) Due to the small area of works related to the demolition of the meteorological radar tower and lack of naturally valuable habitats and species, the Contractor for the time of preparation and implementation of works will not employ a team of naturalists responsible for permanent supervision of these works. The nature protection functions will be performed by an employee of the Contractor having the appropriate knowledge, approved by the Employer. Activities in the field of nature protection will be carried out in accordance with the applicable regulations and good practices developed under the OVFM Project under the supervision of a representative of the PIU.</p> <p>(c) Works carried out during the period of execution of the Contract shall be carried out under the ongoing environmental supervision of the Contractor. The environmental supervision expert shall, in accordance with his specialty and the type of works performed, inter alia, carry out regular inspections of the entire Contract area (At least once during the demolition) and provide his comments and recommendations on an ongoing basis to the Contractor's personnel responsible for carrying out the works.</p>
	Dendroflora	<p>(d) Work around trees must be carried out under supervision.</p> <p>(e) Trees that are not to be felled but are vulnerable to damage shall be protected.</p> <p>(f) In case of damage to trees, adequate care and protection measures shall be carried out under the Contractor's environmental supervision.</p>

		<p>(g) If it is not possible to carry out protective measures, branches of trees not scheduled for removal exposed to mechanical damage shall be pruned as a preventive measure.</p> <p>(h) In the case of excavation work exposing the root systems of trees, works in the closest vicinity of root blocks should be carried out with due care, and exposed roots, until re-covered with soil, should be secured with, for example, jute mats.</p>
	Reclamation	(i) Upon completion of demolition work, the site will be cleaned, leveled and left to plant succession on its own.
H. Traffic and pedestrian safety	Direct or indirect risks to public and pedestrian traffic arising from construction activities	<p>(a) In accordance with the national regulations, the Contractor will ensure adequate protection of the construction site and regulation of traffic related to the construction. This includes, but is not limited to, the following:</p> <ol style="list-style-type: none"> 1. Marking, warning signs. 2. Providing safe and permanent access and transit for emergency services. 3. Agreeing on the Traffic Organization Project with the owner and/or lessee of the road - if necessary.

PART 4: MONITORING PLAN

Activity	What	Where	How	When	Why	Cost	Who
A. General conditions for the execution of works	The conditions set out in Part 3 point A	Radar station in Gdańsk Rębiechowo Control and verification of the Contractor's documents (point 3A a-c)	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photo documentation.	During the performance of the Contract, on an ongoing basis	Control of the need for individual activities, control of the correctness of implementation.	Shall be borne by the Contractor	Contractor's staff, PIU staff.
B. Modernization works on the radar station	The conditions set out in Part 3 point B	Radar station in Gdańsk Rębiechowo	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photo documentation.	During the performance of the Contract, on an ongoing basis	Control of the need for individual activities, control of the correctness of implementation.	Shall be borne by the Contractor	Contractor's staff, PIU staff.
C. Individual sewage treatment system	The conditions set out in Part 3 point C	Radar station in Gdańsk Rębiechowo	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual	During the performance of the Contract, on an ongoing basis, at least once a month.	Control of the need for individual activities, control of the correctness of implementation.	Shall be borne by the Contractor	Contractor's staff, PIU staff.

Activity	What	Where	How	When	Why	Cost	Who
			monitoring, photo documentation.				
D. Monument (s)	The conditions set out in Part 3 point D	Radar station in Gdańsk Rębiechowo	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photo documentation.	During the performance of the Contract, on an ongoing basis, at least once a month.	Control of the need for individual activities, control of the correctness of implementation.	Shall be borne by the Contractor	Contractor's staff, PIU staff.
E. Land occupations	NOT APPLICABLE						
F. Toxic materials	The conditions set out in Part 3 point F	Radar station in Gdańsk Rębiechowo	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photo documentation.	During the performance of the Contract	Control of the need for individual activities, control of the correctness of implementation.	Shall be borne by the Contractor	Contractor's staff, PIU staff.
G. Nature protection	The conditions set out in Part 3 point G	Radar station in Gdańsk Rębiechowo	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual	During the performance of the Contract	Control of the need for individual activities, control of the correctness	Shall be borne by the Contractor	Contractor's staff, PIU staff.

Activity	What	Where	How	When	Why	Cost	Who
			monitoring, photo documentation.		of implementation.		
H. Traffic and pedestrian safety	The conditions set out in Part 3 point H	Radar station in Gdańsk Rębiechowo	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photographic documentation (including the condition of roads if transports would be frequent and under limit load), control of obtaining opinions and / or arrangements required by law, administrative decisions.	During the performance of the Contract	Control of the need for individual activities, control of the correctness of implementation.	Shall be borne by the Contractor	Contractor's staff, PIU staff.