

GUIDELINES FOR THE EXECUTION OF THE CONTRACT ON ENVIRONMENTAL AND
SOCIAL POLICIES OF THE WORLD BANK
CONTRACT 4A.3.1/i -POLRAD WEATHER RADAR MODERNIZATION –
METEOROLOGICAL RADAR STATION GÓRA ŚWIĘTEJ ANNY


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/i – POLRAD Weather Radar Modernization – meteorological radar station Góra Świętej Anny		
Scope of the project and activities	<p>As part of the 4A.3.1/i Contract Task, the Contractor shall carry out the following works:</p> <ul style="list-style-type: none"> • construction of the reinforced concrete structure of the tower with foundation; • construction of internal stairs; • delivery and installation of an internal elevator; • construction into the body of the tower of the ground level building including UPS room, generator room, storage room, utility room, toilet room; • execution of finishing works of the tower and ground floor with supply of woodwork, finishing of floors and walls; • execution of internal electrical and lighting installation; • execution of the teletechnical installation; • delivery and commissioning of a new generator set; • delivery and commissioning of a new UPS uninterruptible power supply unit; • supply and installation of heating and air-conditioning system; • installation of a new radar, apparatus, dome; • construction of a paved access road and an internal ma-news yard; • paving of the existing dirt road leading to the radar station; • construction of a drilled well for water supply purposes; • construction of a drainless septic tank; • construction of a new fence for the station area; • construction of an outdoor electrical system and outdoor lighting; • installation of: <ul style="list-style-type: none"> – anti-burglary system, – fire alarm system, – video surveillance system. 		
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 Consortium INSTAL Warszawa S.A. and Leonardo Germany GmbH
LOCATION DESCRIPTION			
Location name	Weather radar station in Góra Świętej Anny		

<p>Description of the location</p>	<p>The planned investment will be located on plot of land no. 45/1, Żyrowa precinct, Zdziezowice municipality, Krapkowicki powiat, Opolskie voivodeship.</p> <p>The project will be implemented on a plot of 0.3 hectares and includes an area that will be fenced in due to the realization. The area under the radar tower with infrastructure will occupy about 0.052 hectares, while the rest of the land will be unpaved area, i.e. about 0.248 hectares. Ultimately, the tower will reach a height of 49.25 meters above ground level. A paved access road will also be designed, partly on the footprint of an existing dirt road with an area of about 0.1375 hectares.</p> <p>The subject of the investment is the construction of a meteorological radar station of the METEOR 735 CDP10 type. The station constitutes a unified whole and will be executed as a one-stage construction. The designed meteorological radar station will be included in the Polish meteorological radar network POLRAD and will be an element of the National Monitoring and Protection System of the Polish national hydrological and meteorological service.</p> <p>The plot is not included in the Local Spatial Development Plan.</p>	 <p>Terrain map [] YXN</p>
<p>Who is the owner of this area?</p>	<p>Institute of Meteorology and Water Management - National Research Institute (IMGW-PIB)</p>	
<p>Description of the geographic, physical, biological, geological, hydrographic and socio-economic context</p>	<p>Geological structure - The investment area is located within the Chelm mesoregion (341.11), the Silesian Upland macroregion, the Silesian-Cracow Upland subprovince. The highest elevation is St. Anne's Mount with an elevation of 407.6 meters above sea level. The surface is dominated by Triassic and Quaternary sediments.</p> <p><i>Due to the nature of the project, no impact of the investment on the geological conditions is expected.</i></p> <p>Soil conditions - Despite its location on the Odra River, the municipality of Zdziezowice does not have the best conditions for agricultural production due to the nature of its soils. The most fertile soils - medium and heavy muds rich in mineral elements - are located in the Odra valley. The rest of the soils are made up of loose sands, poorly loamy sands, gravels belonging to the light acidic, poorly humus and low in phosphorus and potassium compounds.</p> <p><i>Due to the nature of the project and its point source character, the impact of the project on soils is not expected.</i></p> <p>Surface waters - the investment area is located in the catchment area of the Surface Water Body (SWB) with the European code RW60001711752 Krępa. The indicated SWB is 9.35 km long, and the catchment area is 20.98 km². The status has been determined as a Type 17 natural watercourse (Sandy lowland stream).</p>	

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 about 600 mm of precipitation per year. Rainwater and snowmelt will be spontaneously drained into the ground. The project area is not expected to create paved areas, larger than 0.052 hectares, and this paved area will have a surface permeable to rainwater. In addition, rainwater will not flow onto neighboring plots.

The construction of the radar station does not create a threat to the soil 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 PLGW6000127, which has a good chemical status, good quantitative status, and therefore good general condition. The GWB, based on the status analysis, was determined to be not at risk with regard to achieving the environmental objectives.

Impact on surface and underground waters

The construction of a radar tower is planned, a facility that does not require a permanent supply of water for either technological or social purposes.

No potential contamination of surface water and shallow circulating groundwater is diagnosed during the construction 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 45/1. No other hydrated or wet areas or ponds were identified.

Landscape

Currently, the land for the projected station is occupied by an agricultural field. The plot is located in the Góra Świętej Anny landscape park, directly on the A4 highway. From the side of the village of Góra Świętej Anny, the plot is hidden by a line of forest.

The construction of a new tall building will affect the landscape. Due to the requirements of the Chief of Air Traffic Services, the tower needs to be repainted (with red and white stripes). The station will be located in the vicinity of other dominant features - a radio tower, a gas station and a highway, so it will appear in an already developed environment. From the village of Góra Świętej Anny, the tower will be barely visible, through the forest line, and only part of its dome will be observable. The tower will have a negative impact on the landscape, but thanks to its location in an already developed area and its overshadowing by the surrounding forest, the impact will be minimized.

A negative impact on the landscape is diagnosed.

Air condition

In connection with the construction of the radar tower station, there will be passenger vehicle traffic, as well as vehicles associated with the transportation of supplies and waste disposal. As for deliveries and waste disposal, there will be dozens of trips throughout the construction period. Due to the lack of work in the road lane and the road exit, a Traffic Organization Project is not required.

The inconvenience of the planned project during the construction period will be associated with the possibility of temporary, mainly limited to the area of the works, increased emissions of dust and gases, associated with the operation of machinery, welding, grinding and construction of the paved road. 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 short-term and local in nature.

There will be no electromagnetic impact during construction. The weather radar will be activated only after the completion of the work during the on-site operational test. The area of exceedance will include a radius of about 59 m at the height of the center of the antenna, i.e. 47 m.a.s.l., an area inaccessible to people. In more details, the electromagnetic impact of meteorological radars is described in the General Environmental Management Plan - Guidelines for the Contractor for Contract 4A.3.1 in Chapters 2, 4.9, 5.8.

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

Acoustic climate

At the stage of construction, implementation of the project in question, noise will be a nuisance at a distance of up to 100 m from working machinery or ongoing work. The greater the distance from the emitter, the greater the decrease in sound power. Taking into account the location of buildings (about 260 m to the northeast and 1 km to the east), the stage of implementation will not be associated with inconvenience and exceedance of acceptable standards. The planned construction is located next to the A4 highway, which generates an acoustic background of 70 dB. The width of the exceedance belt (5-10 dB) is about 150-200 m. For the average sound power level, calculated for the example 4 emitters (98.1dB), the noise propagation at a distance of 150m from the source will be 54.6dB. Noise emissions at a distance of 150m from the source (meteorological radar construction) will be lower than the recorded acoustic background. The sum of the acoustic background and noise emissions during the implementation of construction activities will be equal to the average background (70.1 dB).

Due to land use, the area in question should be considered as arable land and wooded areas, which, according to 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), are not acoustically protected areas.

For the duration of the construction work, i.e. about 7 months, there will be dozens of truck trips with transport or disposal of waste, which may emit noise of up to 102 dB. They will take place between 6:00 a.m. and 10:00 p.m. For 2.5 months, the tower's reinforced concrete structure will be constructed using the slip-forming method. This technology requires non-stop work i.e. 24 hours a day. It is not a very acoustically onerous technology and will not cause exceedance of acceptable norms for residential buildings about 260 m away at night.

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 planned radar station is currently arable land. Eurasian wild boar (*Sus scrofa*), European roe deer (*Capreolus capreolus*), European fox (*vulpes vulpes*), forest marten (*martes martes*) and European mole (*tapla europea*) have been found on or near its territory.

The species composition of mammals, is influenced by the agricultural, transformed landscape with trees and shrubs and nearby forests. The area of the future project and its immediate surroundings, does not constitute an attractive and significant breeding, living and foraging area.

The bird fauna of the site is characteristic of the farmland, groves and small area forests surrounding the study area. The potential herpetofauna in the area is poor. 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.

Within the plot 45/1 on which the radar station will be located and in the surveyed 100 m buffer, no valuable and protected natural habitats were found.

The plot planned for the project is used as an agricultural field. On the NE side there is a dirt road, and behind it is an approximately 10 m wide strip of woodland. The species

composition of this plant habitat includes: pedunculate oak, common beech and bearded birch of several to several decades of age, as well as: hawthorn, bird cherry, mountain ash, cherry plum and brittle willow. This plant habitat is low in value and does not provide significant nesting habitat for birds due to the young age of the trees and direct proximity to the busy and noisy A4 highway. On the SE side, at a distance of several tens of meters, there is a debrza with an intermittent watercourse, which becomes active after heavy rainfall and during snowmelt. There are self-sown the following species: pedunculate oak, beech, bearded birch, aspen and black alder, ranging in age from a dozen to several decades.

The construction of the radar tower will not adversely affect the environment and protected areas.

It is expected that after the completion of the project, native species characteristic of the region and climate zone will appear on the site of the future radar station, so the impact on biodiversity is expected to be positive.

Trees exposed during construction work will be protected. No cutting of trees and shrubs is planned, however, it will be necessary to trim branches growing directly over the dirt road and at risk of breaking.

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 5 km):

The planned investment is located in the Natura 2000 area - Góra Świętej Anny (PLH160002). The implementation site is located outside the range of natural habitats that are the subject of Natura 2000 protection and outside their non-direct vicinity.

In addition, the implementation is located within the territory of the Góra Świętej Anny Landscape Park. The implementation will not affect the park's conservation objectives, but will have an impact on the landscape. However, according to Art. 17 sec. 2 pt. 4 of the Law on Nature Protection, the prohibitions applicable to the territory of the landscape park do not apply to the implementation of public purpose investments.

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 6i Location Map of the 4A.3.1 Contract against the protected areas – GÓRA ŚWIĘTEJ ANNY to the above-mentioned document.

Therefore, the impact on forms of nature conservation is not diagnosed.

Cultural heritage

There are no cultural heritage elements or monuments in the immediate vicinity of the planned project.

At a distance of about 1.4 km there is the Franciscan monastery and St. Anne's Basilica. This is one of the most important monument complexes for the Opole Silesia region. The planned investment will not directly affect these objects. It is not expected that construction vehicles will move through this locality. The indirect impact on this complex will be that after the tower is built, part of its dome will be visible behind the forest line from the compound.

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 change in the areas adjacent to the plot. The project site is located in the vicinity of agricultural and forested areas. The nearest buildings not belonging to the Investor are located at a distance of about 170 m to the north (the transmitting station on the other side of the highway).

Materials used

Only environmentally safe, non-toxic materials will be used during construction and renovation work. A tower of reinforced concrete structure will be built, on which a meteorological radar will be mounted, along with a dome.

The following table shows the estimated quantities of necessary construction materials.

Scope	Description of main materials	Estimated quantity
Góra Św. Anny		
<i>Main tower structure</i>	Concrete	212 m ³
	Reinforcing steel	20 t
<i>Tower foundations</i>	Concrete	146 m ³
	Reinforcing steel	15 t
<i>Staircase</i>	Structural steel	9 t
<i>Platform</i>	Structural steel	5 t
<i>Elevator shaft</i>	Structural steel	9 t
<i>Tower ceiling</i>	PUR sandwich panels	330 m ²
	Concrete	19,5 m ³
	Reinforcing steel	7 t
	Styrofoam	61 m ²
	Roofing felt	61 m ²
<i>Main structure of the ground floor building</i>	Ceramic hollow blocks	174 m ²
<i>Ground floor building foundations</i>	Concrete blocks	6 m ³
<i>Ground floor building ceiling</i>	Structural steel	2 t
	Trapezoidal sheeting	57 m ²
	Mineral wool	9 m ³
	Roofing felt	57 m ²
<i>Road system</i>	Jomb slabs	388 m ²
	Broken aggregate	660 m ³
<i>Access road</i>	Jomb slabs	1750 m ²
	Broken aggregate	700 m ³

The remaining work will focus on finishing inside the tower and will require dozens of pallets of finishing materials. These materials will be stored unevenly over a period of 7 months. They will be stored in a designated area. Since hazardous materials will not be stored, they do not require additional safeguards.

A Waste Management Plan will be prepared for the construction, subject to approval by the Employer, where the types of waste that will be generated, the method of their disposal and the principles of segregation will be described.

Waste will be stored in designated containers at the designated site and removed regularly, so that it will not linger. All waste, including electro-waste will be collected and disposed of by an authorized entity, with which the Contractor will sign a contract before the start of the work. It is not planned to give the electro-waste to the purchase or collection points for such waste. A special container will be allocated for it at the construction site, if such waste is generated.

At the stage of operation, it is required that the fuel for the generator is stored in a double-walled tank with anti-corrosion protection, placed in a sump with a capacity to accept the entire contents of the tank. Sorption materials will be located at the station.

SUMMARY

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

Furthermore, no residential development is planned in the study area, which is often the cause of biodiversity decline. The investment will not affect species perceived as conflicting and will not increase the penetration of alien species.

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

	<p>The implementation of the investment will not adversely affect the habitats and species of flora, fauna and fungi.</p> <p>In the case of the planned Investment, there is no possibility of direct and indirect impact of the planned modernisation facilities on the loss, fragmentation or modification of habitats. The investment will be located on a small area.</p> <p>The investment will not have a negative impact on the forms of nature protection.</p>
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>Investment Permit issued by the Opole Voivode (planned to be obtained in Q3 2022).</p> <p>Notification of road reconstruction to the Krapkowice Starost's Office (planned Q3 2022).</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	X Yes <input type="checkbox"/> No	See point A and B below
	B. Small-scale new construction	X Yes <input type="checkbox"/> No	See point A and B below
	C. Individual sewage treatment system	<input type="checkbox"/> Yes X No	See point C below
	D. Historical building(s) and districts	<input type="checkbox"/> Yes X No	See point D below
	E. Land occupation ¹	<input type="checkbox"/> Yes X No	See point E below
	F. Hazardous or toxic materials ²	<input type="checkbox"/> Yes X No	See point F below
	G. Nature protection	X Yes <input type="checkbox"/> No	See point G below
	H. Traffic and pedestrian safety	<input type="checkbox"/> Yes X No	See point H below
	I. Specific guidelines to be followed in the event of an epidemic or a state of emergency during the execution of the works	X Yes <input type="checkbox"/> No	See point I 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 building and / or renovation permits have been obtained or works have been notified. (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 construction site. (f) The personal protective equipment of employees will be in line with international good practice (helmets, if necessary, masks and goggles, harnesses and safety shoes are always obligatory). (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 ensure compliance with the quality requirements for the Works, health and safety regulations as well as Biosafety regulations (if required) and must not cause damage to the existing infrastructure and elements of the development and landscaping. (i) The contractor will apply the principles of HIV-AIDS and SARS-CoV-2 - COVID-19 prevention. (j) 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 governing environmental protection, health and safety and labour law. (k) 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. Construction works on the radar station	Air quality	<ul style="list-style-type: none"> (a) The Contractor's vehicles may not pollute the surrounding environment (pavements, roads). (b) Use additional measures such as sprinkling of construction sites and process roads to reduce dust. (c) For each location where the radar system will be upgraded, electromagnetic fields shall be measured to determine compliance with standards. After conducting each measurement, the Contractor shall submit the results to the PIU for verification. The level of electromagnetic fields in the environment shall not exceed accepted acceptable standards. (d) During the works, leaving vehicles and machines idling will be limited to the necessary minimum. (e) Only vehicles, machines and devices complying with current emission standards will be used. (f) Additional measures such as securing the scaffolding with specialized netting or tarpaulin should be used during work that may degrade air quality, such as spray painting, performing insulation, among others. The base of the tower should be protected with a foil to prevent contaminants from entering the ground.
	Noise	<ul style="list-style-type: none"> (g) The noise related to the modernisation works will be limited to the working hours (6.00 - 22.00). Exceptions are works with technology that does not allow stoppages, such as sliding formwork.

		<p>(h) Such vehicles, machines and devices will be used, that provide reduction of the noise to the applicable regulations and standards.</p> <p>(i) 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.</p>
	Water	<p>(j) Provide for the area of construction facilities, storage of construction materials and equipment, storage areas for hazardous substances and storage of waste on a hardened, sealed ground (e.g., with concrete slabs).</p> <p>(k) Refuel construction vehicles and machinery off site.</p> <p>(l) Store materials and raw materials in such a way as to prevent contamination from entering the ground and water.</p> <p>(m) Do not allow the site to be contaminated with chemicals that may seep into the waters, the areas designated for the storage of substances that may pose a threat to water should be protected with isolating materials.</p> <p>(n) Equip the construction site, especially the vehicle staging area, with suitable sorbents for precipitating contaminants, especially petroleum-based (e.g., fuels, lubricants) and synthetic (e.g., oils) contaminants.</p> <p>(o) During slipform work, secure the work area with sump trays, sorbent mats, sorbent, among others, to protect the area from contamination or minimize the danger.</p>
	Soils	<p>(p) If it is necessary to destroy the topsoil, the topsoil shall be collected, stockpiled, and then used for restoration.</p> <p>(q) In the event of emission of petroleum contaminants to the soil surface, immediate measures shall be taken to prevent the spread of contaminants and the contaminated soil shall be removed without delay, and then properly disposed of as waste.</p>
	Waste management	<p>(r) 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>(s) Waste is to be handed over to authorized entities for further management.</p> <p>(t) Records of waste disposal will be maintained as evidence of proper management as intended.</p> <p>(u) Store non-hazardous waste generated during the project selectively in a designated area of the construction site until it is collected by authorized entities.</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). Equip the facilities with portable toilets.</p>
D. Monument (s)	Cultural heritage	<p>(a) Conduct earthwork, such as for installations and other excavations, 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 nature conservation officer as well as the Opolskie Voivodeship Conservator of Monuments should be notified.</p>
E. Land acquisition	Land acquisition plan / framework	<p>(a) NOT APPLICABLE (the works will be performed on the premises of which IMGW-PIB is the owner and there is no need to acquire land for permanent or temporary use).</p> <p>(b) The access road modernization project should be agreed with the municipality, which is the administrator of the area.</p>
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 from weathering, in a sealed area or enclosed in a place inaccessible to the public.</p> <p>(b) Handle and dispose of used spill cleaners as hazardous waste. In case of soil contamination, remediate the soil through a qualified company.</p>

G. Nature protection	Protected areas, natural habitats, protected species	<p>(a) The activities concerning the re-assessment of the classification of the activities with regard to the obligation to obtain an environmental decision, as well as the 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 construction works and lack of naturally valuable habitats and species (identification was made for the needs of the Report on environmental impact for the modernisation of the radar station), 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 conservation functions will be performed by an employee of the Contractor having the appropriate knowledge, approved by the Employer. Activities in the field of nature conservation 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 and other works carried out during the period of execution of the Contract shall be carried out under the ongoing nature conservation officer of the Contractor. The nature conservation officer 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 a month) 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) The felling of trees and shrubs should be limited as much as possible to objects that interfere with the sites of the works; felling may be carried out only when an alternative solution, such as the use of trenchless methods, is not possible.</p> <p>(e) Trees that are not to be felled but are vulnerable to damage shall be protected, according to the tree species and conditions, by shields made of boards, jute mats or netting.</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 earthworks exposing the root systems of trees, at the root blocks should be carried out with due care, and the exposed roots, until they are covered with soil again, should be protected with, for example, jute mats. The mats should be sprinkled regularly until the first frost occurs, i.e. the end of October.</p> <p>(i) If possible, roots larger than 4 cm in diameter should not be cut.</p> <p>(j) Do earthwork as far as possible at least 2 m from the tree trunk. Do not cover tree trunks with soil above a height of 0.2 m above the original ground level and shrubs above a height of 0.1 m above the original ground level.</p>
	Animal protection	<p>(k) Secure all openings in doors and walls of rooms, especially ventilation openings, for example with netting with a mesh size of no more than 0.5 cm in diameter to prevent bats, birds, and smaller mammals from occupying these objects.</p> <p>(l) Regularly inspect excavations, especially before covering them for the presence of animals. If the need occurs with caution, remove the animal from the excavation and carry it outside the construction site.</p>

H. Traffic and pedestrian safety	Direct or indirect risks to public and pedestrian traffic arising from construction activities	(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: <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.
I. Specific guidelines to be followed in the event of an epidemic or a state of alert or emergency during the execution of the works	Direct or indirect threats to public health	(a) In the event of an epidemic or a state of epidemic emergency being in force during the execution of the works, the Contractor shall be obliged to: <ol style="list-style-type: none"> 1. to ensure that all necessary precautions are taken for the health and safety of physical workers and the Contractor's Personnel on the construction site, in particular as regards the introduction of appropriate measures to avoid or minimise the spread of diseases, including measures to avoid or minimise the transmission of contagious diseases, which may be related to the influx of temporary or permanent workforce associated with the execution of the Contract, in a manner specified in the content of the applicable Law, e.g. in the issued pursuant to art.46 a of the Act of the 5th of December 2008 on preventing and combating infectious diseases in humans (consolidated text Journal of Laws of 2019, item 1239 as amended d.), regulations on the establishment of certain restrictions, orders and bans in connection with the occurrence of an epidemic, 2. designate a person responsible under the Contract for matters related to the principles of occupational health and safety during an epidemic or epidemic threat, 3. implement appropriate recommendations of sanitary services in the territory of the Republic of Poland and the World Bank, 4. cooperate with the Employer, in particular provide current information on the taken or planned precautionary measures, including the proper protection of the construction site against unauthorised access and the implementation of appropriate procedures, 5. organise an information campaign (e.g. in the form of posters and instructions placed on the construction site) on the symptoms and signs of infection, virus spread, methods of protection (including e.g. regular hand washing).

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 Góra Świętej Anny 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, 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.
B. Construction works on the radar station	The conditions set out in Part 3 point B	Radar station in Góra Świętej Anny	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photo documentation.	During the period of execution of the Contract, on an ongoing basis, not less than once a month, once for point 3B c, after commissioning the upgraded radar	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 Góra Świętej Anny	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 Góra Świętej Anny	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	The conditions set out in Part 3 point E	Radar station in Góra Świętej Anny	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.
F. Toxic materials	The conditions set out in Part 3 point F	Radar station in Góra Świętej Anny	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring,	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
			photo documentation.				
G. Nature protection	The conditions set out in Part 3 point G	Radar station in Góra Świętej Anny	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.
H. Traffic and pedestrian safety	The conditions set out in Part 3 point H	Radar station in Góra Świętej Anny	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photographic documentation (including the condition of roads and the possible condition of buildings if transports would be frequent and under limit load), control of obtaining	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
			opinions and / or arrangements required by law, administrative decisions.				
I. Specific guidelines to be followed in the event of an epidemic or a state of alert or emergency during the execution of the works	The conditions set out in Part 3 point I	Radar station in Góra Świętej Anny	Verification-assessment / approval of the documentation provided by the Contractor to the PIU. Visual monitoring, photographic documentation, control of obtaining opinions and / or arrangements required by law, administrative decisions.	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.