

## Appendix 1 Mitigation Action Plan

In this Appendix to the Detailed Environmental Management Plan for the Odra-Vistula Flood Management Project - 4A.3.1/h Contract Modernization of the POLRAD weather radar modernization - Użranki meteorological radar station - presents mitigation measures to reduce negative environmental impact. The costs and the schedule for conducting these activities have been included in the total Offer Price. The contractor covers all costs related to the implementation of the DEMP, and the Accepted Contract Amount includes these costs.

The mitigation plan will be implemented considering the World Bank Policy expressed in the Operational Manual of the Odra and Vistula River Basin Flood Protection Project, the World Bank's operational policy OP.4.12.

Explanations regarding the table in Appendix 1 to the EMP:

- unless otherwise specified in a given case, the term Task Implementation Area means the area of performance, in the Użranki location, of any preparatory works, basic works (including Permanent Works and Temporary Works) and any works related to the removal of defects and faults or the implementation of unfinished works listed in the Taking-Over Certificate or disclosed in the Defect Notification Period, along with the areas of necessary time activities;
- unless otherwise specified in a given case, the term "Task Performance Period" means the period of performance, in the Użranki location, of any preparatory works, basic works (including Permanent Works and Temporary Works) and any works related to the removal of defects and faults or the implementation of unfinished works mentioned in the Take-over Certificate or disclosed in the Defect Notification Period;
- unless otherwise stated in a given case, the requirements for the Contractor described in the EMP apply to the entire Task Implementation Area at the Użranki location;
- the activities described in this appendix relate to the construction of the Użranki meteorological radar station under 4A.3.1/h Task;

The construction site / area of construction works means the places where the Permanent Works are to be conducted, including storage, and working places to which the Equipment and Materials are to be delivered, as well as other places indicated in the Contract as forming part of the Construction Site. The terms "construction site" and "area of construction works" are terms used interchangeably and understood in the Terms and Conditions as "Construction Site".

The term Object refers to the meteorological radar station in Użranki and the works within it.

The term Contractor primarily refers to the Site Manager and EMP Coordinator (the person responsible for Environmental Supervision).

**APPENDIX 1 – MITIGATING ACTION PLAN**

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

The conditions described in Appendix 1 to the DEMP are grouped into the following thematic categories:

<b>Cat.</b>	<b>Category name</b>	<b>Items in the table</b>
<b>A.</b>	Requirements for the schedule of works and implementation of the EMP	1 - 2
<b>B.</b>	Requirements for access roads to the Task implementation area	3 - 9
<b>C.</b>	Requirements for the location of construction back-up facilities, roads, and technological sites	10 - 12
<b>D.</b>	Requirements for the protection of protected natural resources	13 - 15
<b>E.</b>	Land development requirements (including humus layers)	16 – 19
<b>F.</b>	Requirements for land reclamation after completion of works	20 - 21
<b>G.</b>	Requirements for the prevention of the emission of pollutants into the soil and water environment	22 - 34
<b>H.</b>	Requirements for the prevention of emission of pollutants into the air	35 -37
<b>I.</b>	Requirements for the prevention of noise emissions	38 - 39
<b>J.</b>	Requirements for handling precipitation	40 - 44
<b>K.</b>	Requirements for the protection of human health and safety	45 - 49
<b>L.</b>	Requirements for extraordinary threats to the environment	50 - 51
<b>M.</b>	Requirements for the protection of cultural monuments	52 - 53
<b>N.</b>	Requirements for the implementation and reporting of EMP	54 - 59
<b>O.</b>	Other ES requirements	60 - 68
<b>P.</b>	Service life requirements	69 - 78

# APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

No.	Point of ED	Issue	Place	Mitigating action	Entity responsible
<b>A – REQUIREMENTS FOR THE SCHEDULE OF WORKS AND IMPLEMENTATION OF THE EMP</b>					
1		Schedule of works	Task execution area	<p><b>EMP conditions regarding the dates of conducting the works and the performance of selected activities related to the implementation of the EMP</b></p> <p>When determining the work schedules and at the stage of their implementation, the conditions of the EMP regarding the dates and times of conducting diverse types of works, described in detail in the following items of the table, should be considered.</p>	The Contractor
2		Schedule of works	The area of the Task execution along with access roads	<p><b>EMP conditions for activities to be performed before the commencement or at the preliminary stage of works on a given object</b></p> <p>When determining the work schedules and at the stage of their implementation, the EMP conditions for activities to be performed before or at the beginning of a given stage of works should be considered, described in detail in the following items of the table, including:</p> <ul style="list-style-type: none"> <li>a) conditions for the construction and equipment of construction back-up facilities, roads, and technological sites;</li> <li>b) conditions for access roads to the construction site;</li> <li>c) conditions for removing and protecting the humus / mineral soil layer;</li> <li>d) the condition of securing the construction site against the entry of small animals;</li> <li>e) conditions for drainage of construction works;</li> <li>f) conditions for the development of selected documents;</li> <li>g) conditions for documentation of the technical condition of infrastructure facilities;</li> <li>h) conditions for obtaining the approval of PIU for the person of the coordinator for the implementation of the EMP and environmental supervision;</li> <li>i) conditions relating to training and educational activities.</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

B - REQUIREMENTS FOR ACCESS ROADS TO THE TASK IMPLEMENTATION AREA					
3		Protection of the land surface and landscape, soil and water protection, protection of material goods, protection of animate nature	Access roads to the Task execution area and their surroundings	<b>Location of access routes to the Task implementation area</b>  The existing road network should be used as access routes to the Task implementation area to the maximum extent possible. If it is necessary to use existing non-public roads (so-called internal) as access roads, The Contractor is obliged to agree in advance the conditions of using these roads with their owners or managers, and then to comply with these conditions during the performance of the Task.	The Contractor
4		Protection of the land surface and landscape, soil and water protection, protection of material goods, protection of animate nature	Access roads to the Task execution area and their surroundings	<b>Establishing new access roads</b>  If it is necessary to establish new access roads to the area of the Task implementation (outside the existing network of public and non-public roads), the following apply, inter alia, the following conditions: <ul style="list-style-type: none"> <li>a) new access roads should be designated in the form of the shortest possible sections, outside areas with high natural values and in a way that minimizes the need to remove trees and shrubs.</li> <li>b) the planned locations of new access roads should be presented, along with the above-mentioned arrangements for the approval of PIU.</li> <li>c) the planned locations and conditions for the use of new access roads should be agreed with the owners or managers of the areas located in the strip and in the immediate vicinity of the planned road strip, and then comply with these conditions during the implementation of the Task.</li> <li>d) obtaining the above-mentioned arrangements do not release the Contractor from the necessity to comply with the applicable legal provisions in the field of planning and conducting transport outside the existing road network.</li> </ul>	The Contractor
5	II.4 (ref. pt. B), II.14	Protection of human health and safety, protection of material	Access roads to the Task execution area	<b>Ensuring the safety and fluidity of road traffic on access roads</b>  During the implementation of the Task, The Contractor will take all the necessary organizational and technical measures in advance and take all necessary	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŻRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

	(ref. pt. C.); II.15 (ref. pt. d)	goods, protection of animate nature	and their surroundings	<p>organizational and technical measures in order to ensure the safety and fluidity of road traffic on the access roads to the Task execution area (in particular around the entrances and exits from the construction site), including .in .:</p> <ul style="list-style-type: none"> <li>a) if necessary, The Contractor will ensure proper marking of all currently used access roads to the area of the Contract implementation, in accordance with applicable law and in agreement with the relevant Road Managers and the Police. These markings will be inspected regularly and in the event of their destruction or theft, The Contractor will immediately take steps to restore or replace them.</li> <li>b) the traffic of lorries transporting construction materials and technical equipment should be led along public roads at a limited speed, and on an unpaved road from Użranki to the investment site - at a speed of 10 - 20 km / h.</li> <li>c) due to the fact that the Użranki-Kosewo dirt road crosses the Baranowo Masuria Turtle Refuge, including the ecological site Zawady Rozlewisko, transport of equipment and materials should take place from the exit from the national road DK59 through the town of Użranki.</li> <li>d) in the case of using the Użranki-Kosewo dirt road, during the construction period, when crossing the road of hydrated areas and places of potential migration of turtles, amphibians and other reptiles, these sections should be fenced with fences with safe containers for these animals (protected against predators). These containers should be emptied several times a day, and the animals found in them should be inventoried by a specialist and transported safely to the other side of the road.</li> </ul>	
6		Protection of the land surface and landscape, protection of material goods	Access roads to the Task execution area and their surroundings	<p><b>Documentation of the initial condition of the construction site, access roads and their surroundings</b></p> <p>The Contractor is obliged to document the initial condition of areas that may be subject to adverse effects in connection with the implementation of construction works, including:</p> <ul style="list-style-type: none"> <li>a) The Contractor is obliged to prepare photographic documentation of the entire area of the Contract implementation and access roads, with particular emphasis on the technical condition of roads and buildings located near the routes for transporting materials and construction</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<p>equipment. The completed documentation should be described with an indication of the place and date of completion;</p> <p>b) prior to the commencement of the use of individual sections of access roads to the Contract area, the Contractor will conduct on-site inspections in the presence of road managers, as a result of which reports on the condition of individual access roads will be drawn up. On this basis, The Contractor will be obliged to restore the technical condition of the roads after completion of works (see also item 13).</p>	
7		Protection of human health and safety	Access roads to the Task execution area and their surroundings	<p><b>Maintaining cleanliness on access roads</b></p> <p>In order to maintain cleanliness and prevent accidents on the access roads to the Contract area, The Contractor will be obliged to undertake, inter alia, the following actions:</p> <p>a) apply all available technical measures and organize the works so as to minimize the contamination of the access roads to the Contract area;</p> <p>b) immediate and systematic removal of any contamination arising on the access roads as a result of the movement of vehicles, machinery and equipment related to the implementation of the Contract (in particular in the vicinity of entrances and exits from the construction site).</p>	The Contractor
8		Protection of human health and safety, protection of material goods	Access roads to the Task execution area and their surroundings	<p><b>Compliance with tonnage limits on the roads</b></p> <p>The works should be planned and implemented in a way that will ensure that the technical condition of the access roads to the Task execution area does not deteriorate, in particular in connection with the transport of construction materials and construction equipment. The Contractor will comply with the statutory axle load limits when transporting materials and equipment to and from the Task execution area.</p>	The Contractor
9		Protection of material goods	Access roads to the Task execution area and their surroundings	<p><b>Repair of damage to buildings and infrastructure elements</b></p> <p>The Contractor will be responsible for any damage to structures and buildings, roads, drainage ditches, culverts, water and gas pipes, poles and power lines, cables, geodetic and installation points of any kind, and objects of any kind such as</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<p>vertical and horizontal markings, navigational markings, information boards, objects of cultural goods, etc., caused by him or his Subcontractors, service providers and suppliers during the performance of the Contract.</p> <p>The Contractor will also be responsible for restoring the patency of ditches and drainage systems in the area of the works being conducted and transport routes used, in the event of damage caused by the execution of works and transport related to the service of works.</p> <p>The Contractor will promptly repair any damage caused at their own expense.</p>	
<b>C - REQUIREMENTS FOR LOCATION OF CONSTRUCTION FACILITIES, ROADS, AND TECHNOLOGICAL PLACES</b>					
10		Protection of the land surface and landscape, soil and water protection, protection of animate nature	Task execution area	<p><b>Obligation to perform construction back-up facilities, roads, and technological sites</b></p> <p>The stage of construction works should be preceded by works related to the preparation of the area for investment, including, inter alia, preparation of storage places for construction materials, installation materials and radar devices, construction back-up facilities, etc. as well as designation and preparation of routes for machines and vehicles.</p> <p>When planning the above-mentioned elements of the construction site, it is necessary to ensure economical land management and limit their area to the necessary minimum. The area of temporary occupation places should be limited to the necessary space.</p>	The Contractor
11	II.6 (ref. pt. a)	Protection of the land surface and landscape, soil and water protection, protection of the acoustic climate, protection of animate nature	Task execution area	<p><b>Conditions for the location of construction back-up facilities, yards, storage yards, etc.</b></p> <p>Construction site facilities, databases of equipment units, material and technological yards, parking lots and places for land, construction materials and waste storage, should be located:</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>a) locate the material and equipment base as well as the machine park on a hardened area;</li> <li>b) in places ensuring no impact of noise on acoustically protected areas;</li> <li>c) as far as possible from residential buildings;</li> <li>d) beyond the range of natural habitats and other naturally valuable areas;</li> <li>e) so as to preserve any tree and shrub vegetation growing outside of the places necessary for occupation in order to perform construction works;</li> <li>f) avoiding places of shallow occurrence of groundwater in well-drained formations, as well as stands of plants, animals, and fungi subject to legal protection;</li> <li>g) considering the principle of minimizing land take and transforming its surface as well as the obligation of reclamation after completion of works.</li> </ul>	
12		Protection of the land surface and landscape, soil and water protection, protection of the acoustic climate, protection of animate nature	Task execution area	<p><b>Conditions for the location of technological roads and technical sites</b></p> <p>Technological roads and technical yards will be located within the plot 330/3, i.e., on the plot on which the radar station will be built. This location provides:</p> <ul style="list-style-type: none"> <li>a) a place allowing for compliance with the applicable regulations on acoustic protection of areas;</li> <li>b) as far as possible from residential buildings;</li> <li>c) the maximum possible distance from existing watercourses, water bodies and wetlands;</li> <li>d) a site that allows the maximum protection of any existing trees and shrubs;</li> <li>e) a place outside the areas of the highest natural values;</li> <li>f) space allowing the use of existing roads.</li> </ul>	The Contractor
<b>D - REQUIREMENTS FOR PROTECTION OF PROTECTED NATURAL RESOURCES</b>					
13		Protection of the land surface and landscape, soil and water protection, protection of animate nature	Task execution area	<p><b>Limiting the impact of the Task implementation on natural resources</b></p> <p>In order to limit the negative impact of the works on the natural resources in the area of the Contract implementation and in its surroundings, The Contractor will be obliged, among others:</p>	The Contractor



## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>a) ensure the organization of works in such a way as to shorten the duration of the Contract as much as possible;</li> <li>b) ensure economical use of land and minimal transformation of its surface;</li> <li>c) limit the use and transformation of natural elements of the environment only to the extent necessary for the correct and timely implementation of the Contract,</li> <li>d) if necessary, protect shrubs or trees by the access road to the construction site through trunk covers made of boards or jute mats or fencing with a forest net.</li> </ul>	
14		Protection of the land surface and landscape, soil and water protection, protection of animate nature	Task execution area	<p><b>Protection of the existing plant cover and topography within the construction site</b></p> <p>The Contractor will make every effort to preserve the existing plant cover (trees, shrubs, and herbaceous vegetation) and the existing topography in those parts of the construction site that are not directly related to the works (in accordance with the applicable design documentation). For this purpose, the movement of vehicles and construction machines within the construction site should be limited only to the places of currently conducted or planned construction works and other works related to the implementation of the Contract, as well as to designated process roads, storage yards, construction back-up facilities, etc.</p> <p>No plant protection chemicals (herbicides, pesticides) or any artificial fertilizers will be used during the construction.</p> <p>During construction works, it is not allowed to destroy the vegetation outside the area covered by the investment.</p>	The Contractor
15	II.16 (ref. pt. b), II.17 (ref. pt. d)	Animated nature protection	Task execution area	<p><b>Animal protection</b></p> <ul style="list-style-type: none"> <li>a) works should be conducted in such a way as not to kill animals.</li> <li>b) before starting the works, the area on which the works will be performed should be fenced with a fence preventing the movement of small animals to the construction site. The hurdles should be made of thick, smooth foil, minimum 40 cm high, with an overhang protecting against the ingress of animals outside the fenced area. The foil should be stretched on metal or wooden stakes driven deep into the ground so that the fence is a stiff and</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<p>stable structure. The lower edge of the foil should be flush with the ground to prevent animals from entering the fence. The fences should be disassembled after all construction works are completed. After the area has been fenced off, before starting the works, the fenced-off area should be inspected and, in the event of finding amphibians, caught, and moved outside the construction site.</p> <p>c) all excavations must be secured against the entry of animals and allowed to leave for animals that have entered them. It is also necessary to protect the hollows that may arise in the places where works are conducted and within the construction sites, which are filled with water, against the entry of amphibians into them and the commencement of breeding within them.</p> <p>d) if it is necessary to move specimens of species covered by species protection, a permit should be obtained from the Regional Director for Environmental Protection in Olsztyn to perform activities subject to prohibition, in relation to species subject to strict and partial protection, issued pursuant to Art. 56 sec. 2 point 1 of the Act of April 16, 2004 on nature protection (Journal of Laws of 2020, item 55).</p> <p>e) no substances which could be lethal to the animals present must not be used for conducting the works.</p> <p>f) the construction site will be illuminated at night only by motion sensors, not twilight switches or other solutions illuminating the construction site continuously at night. The construction site can be illuminated continuously after sunset in order to ensure safety. After completing the work during the working day, it will be switched to activated by motion detectors. For illumination, low-mounted lamps with light directed downwards and with low UV radiation emission should be used.</p> <p>g) all openings in the doors and walls of the rooms, including in particular the ventilation openings, will be covered with a safety net to prevent bats, birds, and smaller mammals from occupying these objects.</p>	
<b>E - LAND DEVELOPMENT REQUIREMENTS (INCLUDING HUMUS LAYER)</b>					

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

16	II.11	Protection of the land surface and landscape, soil protection	Task execution area	<p><b>Land management from the construction site</b></p> <p>The lands on the construction site (including earth masses and the top layer of earth) should be developed on the construction site in the first place. The remaining excess land should be managed in accordance with the design documentation.</p> <p>The method of dealing with land constituting waste should be presented in the Waste Management Plan (WMP), developed by the Contractor, and submitted for approval by PIU prior to the commencement of works.</p>	The Contractor
17		Soil protection, protection of animate nature	Task execution area	<p><b>Collection of a humus layer</b></p> <p>Before starting work, remove a fertile layer of soil (humus) with a thickness of about 20-30 cm, which should be placed in piles and then used for work related to tidying up the area.</p> <p>After arranging in piles, the soil should be protected against weather and other negative influences. In order to protect the humus layer from the Task execution area:</p> <ul style="list-style-type: none"> <li>a) prior to the commencement of construction works in individual parts of the Task execution area, a layer of fertile soil (the so-called humus) should be collected, with a thickness in accordance with the applicable design documentation (this condition applies to all places in the Task execution area where the existing humus layer could degrade) in connection with carrying out works, traffic and servicing of vehicles, machines and devices, storage of materials, etc.)</li> </ul>	The Contractor
18		Protection of the land surface and landscape, soil protection, protection of animate nature	Task execution area	<p><b>Storage of humus</b></p> <p>The collected humus should be stored as follows:</p> <ul style="list-style-type: none"> <li>a) the collected humus should be stored in the form of piles, located in places where it will be effectively protected against degradation (see also the description in point c);</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>b) the stored humus piles should be marked and effectively protected against contamination, driving away, compacting, storage of building materials, etc.;</li> <li>c) the stored humus piles should be kept in appropriate humidity, in a way that enables their re-use (e.g., they should be regularly sprinkled, with a frequency depending on weather conditions).</li> </ul>	
19		Soil protection, protection of animate nature	Task execution area	<b>The use of humus</b>  The stored humus should be used to restore the fertile soil layer in the later stages of construction.	The Contractor
<b>F - REQUIREMENTS FOR THE RECLAMATION OF THE SITE AFTER THE COMPLETION OF WORKS</b>					
20	II.18 (ref. pt. e)	Protection of the land surface and landscape, soil protection, protection of animate nature	Task execution area	<b>Restoration of the humus layer and green areas as well as tidying up the area after completion of works</b>  After completion of construction works, it is necessary to: <ul style="list-style-type: none"> <li>a) dismantle the construction site, roads, and technological yards, and remove road slabs and collected sand from the ballast (if applicable) outside the Task execution area;</li> <li>b) in the areas occupied in connection with the implementation of the Contract (within the Task execution area), perform appropriate agrotechnical treatments (soil loosening, fertilization, etc.), preparing to restore the fertile soil layer, and then restore the fertile soil layer (e.g., with the use of humus collected from the site);</li> <li>c) provide appropriate care for the restored green areas;</li> <li>d) remove all remaining waste and organize the Task execution area;</li> <li>e) put the area covered by the works in order and restore it to its proper condition as a result of, inter alia, movement of machines, means of transport and areas adjacent to the site of works.</li> </ul>	The Contractor
21		Protection of the land surface and landscape, soil	Task execution area	<b>Maintenance of grasslands</b>	The Contractor (until the

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

		protection, protection of animate nature		If, after clearing the area and sowing it, gaps are noticed in it, sow a suitable mixture of grasses to complete the lawn.	completion of the given Object)
<b>G - REQUIREMENTS FOR THE PREVENTION OF EMISSION OF POLLUTANTS TO THE GROUND AND WATER ENVIRONMENT</b>					
22	II.22 (ref. pt. b)	Protection of soil and water, protection of human health and safety, protection of animate nature	Task execution area	<b>Ensuring the safety of the soil and water environment</b> <ul style="list-style-type: none"> <li>a) The Contractor is obliged to ensure such organization of works, including the organization and equipment of the construction site, to prevent the possibility of contamination of the soil and water environment in the area of the Contract and its surroundings, as well as to prevent the possibility of uncontrolled leakage of earth masses and other construction materials into the stagnant water reservoirs;</li> <li>b) during the construction and operation period, rainwater and snowmelt from paved areas and roof surfaces should be discharged to the ground on the Investor's own plot, without disturbing the water relations of the neighbouring areas.</li> </ul>	The Contractor
23		Protection of soil and water, protection of human health and safety, protection of animate nature	Task execution area	<b>Construction materials used</b> <ul style="list-style-type: none"> <li>a) only construction materials and raw materials that meet the applicable environmental protection standards, have legally required approvals, and are approved for use in the manner planned by the Contractor, and are safe for the environment, should be used for the performance of the Contract.</li> </ul>	The Contractor
24	II.2	Soil and water protection, air protection	Task execution area	<b>Technical efficiency and inspections of vehicles, machines, and devices</b> <p>Only vehicles, machines and devices, the technical condition of which does not endanger the occurrence of uncontrolled emissions of pollutants into the soil and water environment (e.g., fuel, oil, operating fluids, lubricants, etc. leaks) and air (exceeding permitted exhaust emission standards) should be used for the performance of the Contract.</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

25		Soil and water protection	Task execution area	<p><b>Conditions for drainage of construction excavations</b></p> <p>An appropriate drainage system should be used within construction excavations to ensure that the excavations are kept without standing water.</p> <p>If suspensions are found in the waters pumped out of the excavations, these waters should be treated (e.g., in a sedimentation tank / sedimentation tank) before discharging them into surface waters.</p> <p>Suspensions from treatment should be disposed of in a manner consistent with their classification, eliminating the possibility of penetration into surface waters or soil or storage in places where there may be flooding, flooding, etc..</p>	The Contractor
26		Soil and water protection	Task execution area	<p><b>Location and equipment of places of collection, production and processing of materials that may cause contamination of the soil and water environment</b></p> <p>Places for the collection, production or processing of construction materials (e.g. concrete mixes, prefabricated elements, aggregates, etc.) and other substances that may cause contamination of the subsoil and / or surface waters should be located and equipped in a way that minimizes the risk of their negative impact on the state of the environment, and in particular, reducing the risk of pollutant emissions to the soil and water environment.</p> <p>Such places should have adequate protection against the possibility of contamination of the ground and water and should be provided with equipment and materials enabling the immediate removal of any contamination. Location of the above-mentioned places should also meet the conditions referred to in item 11.</p>	The Contractor
27	II.7, II.8	Soil and water protection	Task execution area	<p><b>Designation, marking and equipment of vehicle, machinery and equipment service areas, hazardous materials storage places and hazardous waste storage places at the construction site</b></p> <p>Do not refuel vehicles and construction machines, repair equipment, change oils in machines and devices during construction works on a construction site.</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<p>Parking places for vehicles should be equipped with, inter alia, in technical and chemical measures for the removal or neutralization of hazardous substances, including petroleum derivatives.</p> <p>In these places, the surface of the area should be sealed with, for example, a geomembrane and covered with concrete slabs.</p> <p>Rain and snowmelt waters from the above-mentioned places cannot transfer pollutants to the ground or surface waters.</p> <p>Building materials collection sites should be located outside the areas of particularly shallow occurrence of groundwater.</p> <p>The construction site should be equipped with a stand with a sorbent to eliminate any leaks of petroleum substances and other harmful substances; in the event of an emergency, e.g., a leak, the used sorbent and soil contaminated with the leak should be collected immediately and handed over to an authorized company for further management.</p>	
28		Soil and water protection	Task execution area	<p><b>Conditions for the performance of ongoing maintenance of vehicles, machinery, and equipment</b></p> <p>The Contractor will conduct ongoing inspections of the condition of vehicles, machinery and equipment and eliminate the possibility of any contaminants getting into the soil and water environment (including, in particular, spills of fuels, oils, operating fluids, lubricants, etc.), both during operation, by the available organizational measures. as well as during service, refuelling, transport and parking of vehicles, machines, and devices.</p> <p>Ongoing maintenance of vehicles, machines and devices involving the risk of contamination of the ground or water should be performed only in places remote from the shores of water reservoirs, protected against the possibility of contamination of the ground and water and provided with equipment and materials enabling the immediate removal of any contamination. As far as possible, such activities should be performed primarily in designated, marked and properly equipped places on the site back-up facilities, referred to in item 35.</p>	The Contractor
29		Soil and water protection	Task execution area	<p><b>Conditions for periodic service, repair and washing of vehicles, machines, and devices</b></p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				No renovation works will be undertaken at the construction site, including e.g., oil changes in vehicles. Periodic service activities (including replacement of oils, fluids, replacement of worn parts and components, etc.), repairs and washing of vehicles, machines and devices should be performed only in designated, marked and properly equipped places outside the investment area.	
30		Soil and water protection	Task execution area	<b>Ensuring the availability of sorbents near places exposed to the risk of emission of petroleum substances</b>  In places exposed to the risk of uncontrolled emissions of petroleum derivatives to the ground and water (including, among others, in places of ongoing maintenance of vehicles, machinery and equipment, in parking lots, etc.), access to appropriate amounts of sorbents for liquidation of leakages should be provided. and spills of petroleum substances.	The Contractor
31	II.10, II.19	Soil and water protection	Task execution area	<b>Ensuring access to sanitary facilities</b>  At the stage of operation of the project, wastewater should be discharged into a sealed septic tank, systematically emptied by authorized entities; avoid overfilling it. Water for the purposes of the operation of the project should be taken from the water supply network.	The Contractor
32		Soil and water protection	Task execution area	<b>Controls of the condition of the ground at work and parking places for vehicles, machines, and devices</b>  The places of work and parking of vehicles, machines and devices should be regularly inspected (especially after longer periods of work or standstill in a given location) in order to identify leakages of substances that may contaminate the ground subsoil.	The Contractor
33		Soil and water protection	Task execution area	<b>Procedure in the case of emission of petroleum pollutants</b>	The Contractor



## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<p>In the event of any incidents related to the emission of petroleum substances to the environment (including the substrate and water):</p> <ul style="list-style-type: none"> <li>a) immediately take measures to prevent the spread of pollution, using available means (e.g., sorbents);</li> <li>b) the soil contaminated as a result of the accident should be removed immediately, in accordance with the applicable regulations;</li> <li>c) in case of major accidents - apply emergency notification procedures.</li> </ul>	
34		Soil and water protection	Task execution area	<p><b>Construction works that may pollute the soil and water environment</b></p> <p>In the case of construction works that may contaminate the soil and water environment, e.g., by transferring pollutants, such as paint fractions or dust, the exposed area should be properly protected, e.g., with foil and / or sorbent, depending on the needs.</p>	The Contractor
<b>H - REQUIREMENTS FOR THE PREVENTION OF EMISSION OF POLLUTANTS TO THE AIR</b>					
35		Air and acoustic climate protection	Task execution area	<p><b>Reducing exhaust gases air pollution</b></p> <p>In order to reduce the negative impact on the air condition:</p> <ul style="list-style-type: none"> <li>a) the idling time of engines should be minimized and the principle of switching off vehicles, machinery, and equipment during stops and work breaks must be followed;</li> <li>b) works must be planned and conducted in a way that minimizes the use of construction equipment and means of transport;</li> <li>c) only technically efficient vehicles, machines and devices with the required approvals should be used, which do not exceed the permitted standards for the emission of gaseous and dust substances into the atmosphere;</li> <li>d) there should be a place for free manoeuvring of vehicles in the form of squares;</li> <li>e) the movement of vehicles, machinery and equipment should be limited to the necessary minimum, and the speed of vehicle movement within the construction site should be limited.</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

36	II.5 (ref. pt. d and e)	Air protection	Task execution area	<p><b>Reducing dust from construction sites and roads</b></p> <p>During the construction works, dust emissions should be reduced by maintaining a high level of work culture, in particular by:</p> <ul style="list-style-type: none"> <li>a) systematic cleaning of the construction site;</li> <li>b) the application of the necessary technical and organizational measures to reduce dust emissions from the construction site, including the storage of construction materials and from under the wheels of vehicles and machines;</li> <li>c) storage of loose materials in places protected from the wind and (if possible) in original packaging, and, if necessary, covering the above-mentioned tarpaulin materials, etc.;</li> <li>d) stopping work or sprinkling roads, squares and other ground surfaces causing dust in dry and windy periods;</li> <li>e) the use construction materials on an ongoing basis, without storing them for a long time at the construction site;</li> <li>f) limiting the speed of vehicles on dusty roads (especially during dry periods);</li> <li>g) the use of airtight tarpaulins on cars carrying materials that may cause dust during transport;</li> <li>h) storage of materials that may cause dusting, in a way that prevents their blurring and dispersion;</li> <li>i) cleaning of vehicle wheels before leaving the access roads to the Task execution area;</li> <li>j) removing the resulting pollutants with the use of mechanical devices;</li> <li>k) adequate protection of the workplaces causing dusting, among others by installing nets on the scaffolding, as well as appropriate protection of the ground.</li> </ul>	The Contractor
37		Air protection	Task execution area	<p><b>It is forbidden to burn fires and to incinerate materials, waste, rubbish, etc.</b></p> <p>In the area of the Contract implementation, it is forbidden to make bonfires and to burn materials, waste, rubbish, etc.</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

I - REQUIREMENTS FOR PREVENTION OF NOISE EMISSIONS					
38	II.1 (ref. pt. A.), II.13 and II.13a (ref. pt. B.)	Protection of the acoustic climate	Task execution area	<p><b>Restriction of works to the seasons and the time of day</b></p> <p>a) in order to reduce noise nuisance, construction works, in particular the most acoustically burdensome ones, should be carried out only during the daytime, i.e. between 600-2200; Works with the use of heavy construction equipment to be carried out from 700 to 1900, in the summer period from the first half of June to the end of September, and to be carried out intermittently, with the use of heavy equipment in an alternating manner;</p> <p>b) in exceptional situations, e.g., related to the work schedule, construction works with the use of heavy equipment may be conducted during the breeding season, i.e., from March to the end of August, under environmental supervision. In the event of a breach of the prohibitions listed in Art. 52 sec. 1 of the Nature Conservation Act, work should be suspended until the competent authority has obtained a permit to derogate from the prohibitions set out in the above-mentioned article.</p>	The Contractor
39		Protection of the acoustic climate	Task execution area	<p><b>Noise reduction for vehicles, machines, and devices</b></p> <p>During the implementation of the Contract, only technically efficient vehicles, machines, and devices should be used, with sound emission (sound power) compliant with the applicable regulations and not exceeding environmental quality standards in terms of permissible noise levels.</p> <p>In the event of finding out-of-order vehicles, machines and devices that may cause an increased noise level in their surroundings, they should be immediately replaced by operational.</p> <p>Use the least burdensome technologies in terms of acoustics for construction works, maintain good work organization, proper operation of the equipment and keep it in a proper technical condition.</p> <p>Use the least burdensome technologies in terms of acoustics for construction works, maintain decent work organization, proper operation of the equipment and keep it in a proper technical condition.</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

J - REQUIREMENTS FOR WASTE MANAGEMENT					
40		Soil and water protection	Task execution area	<b>Preparation of a waste management plan (WMP)</b>  Prior to the commencement of works, The Contractor, as a waste producer, will prepare and submit for approval to PIU a Waste Management Plan, specifying the methods of dealing with waste to be generated during the works and considering, inter alia, conditions for handling waste included in the EMP	The Contractor
41	II.12	Protection of soil, water, and air	Task execution area	<b>General rules of waste management</b>  Waste generated during the implementation of the Contract should be segregated and stored selectively in tight containers, containers or in dedicated and roofed places adapted for this purpose, on a hardened ground, in conditions preventing dusting and blowing light fractions and their negative impact on the environment. Successive collection of waste by entities authorized to further manage it should be ensured.  It is forbidden to store waste and locate construction back-up sites in places of shallow groundwater occurrence in well-drained formations, as well as in stands of plants, animals, and fungi subject to legal protection.	The Contractor
42	II.9	Soil and water protection	Task execution area	<b>Principles of dealing with hazardous waste</b>  Hazardous waste should be segregated and stored separately in designated tight containers placed on a sealed, hardened, marked, and protected against third party access, until it is transferred to entities authorized to further manage such waste.	The Contractor
43		Soil and water protection	Task execution area	<b>Principles of dealing with social and household sewage</b>  Household sewage should be collected at the back of the construction site (hardened) in tight, drainless tanks, the content of which will be transferred to entities with appropriate permits for their management.	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

44		Soil and water protection	Task execution area	<b>Rules for dealing with waste related to the repair and maintenance of equipment</b>  Any waste related to the repair and maintenance of equipment, machines and devices used for construction works may not be stored on the construction site. All repairs of machines and service should be conducted by specialized companies or persons authorized to perform these works by the manufacturer (authorized service). The waste generated during this type of work (including damaged parts, gaskets, filters, grease, and fluid containers, used oils, fluids, etc.) will be collected by repair or service contractors and will not be stored on the construction site. They should then be managed in accordance with the regulations.	The Contractor
<b>K - REQUIREMENTS FOR THE PROTECTION OF HUMAN HEALTH AND SAFETY</b>					
45		Protection of human health and safety	Task execution area	<b>Development of documents related to security in the area of the Contract implementation</b>  In the area of the Contract implementation, order should be kept and proper organization of works should be ensured. Prior to the commencement of works, The Contractor will develop and obtain approval of the PIU for the following documents related to safety at the construction site (described in the text of the EMP): <ul style="list-style-type: none"> <li>a) Construction site organization project (included in BIOZ);</li> <li>b) Waste management plan (WMP - see also item 48);</li> <li>c) Safety and health protection plan (BIOZ Plan).</li> </ul>	The Contractor
46		Protection of human health and safety	Task execution area	<b>Implementation of guidelines regarding the requirements of occupational safety</b>  The Contractor will ensure the implementation of detailed guidelines on occupational safety requirements, incl. in terms of: <ul style="list-style-type: none"> <li>a) development of the construction site, including hazardous zones;</li> <li>b) storage and transport;</li> <li>c) devices and electric power installations;</li> <li>d) machinery and technical equipment;</li> <li>e) work at height;</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				f) ground works; g) selected renovation and demolition work  contained in the applicable legal provisions.	
47		Protection of human health and safety	Task execution area	<b>Conditions for safe storage of building materials</b>  Materials used for construction works should be stored in a way that protects them against destruction and in a way that does not endanger the safety of people and property, and prevents the products, devices, machines, and other equipment from falling over, slipping, or falling.	The Contractor
48		Protection of human health and safety	Task execution area	<b>Ensuring hygienic conditions</b>  In the area of Contract implementation, the necessary number of portable toilets should be provided and their use by employees ensured.	The Contractor
49	III.1 (ref. pt. a), III.2 (ref. pt. b)	Protection of human and animal health and safety	Task execution area	<b>Electromagnetic radiation</b>  a) design and install the antenna system in such a way that the areas of average power density of electromagnetic fields with a value greater than or equal to 1 O W / m <sup>2</sup> are concentrated at high altitudes (minimum 237 m above sea level), in free space and in places inaccessible to the public; b) design and install a radar antenna control system ensuring the movement of the antenna beam only in the upper hemisphere and ensuring its horizontal operation, i.e., with the antenna structure excluding the possibility of its operation at an elevation below + 0.5° from the horizontal line of the antenna.	
<b>L - REQUIREMENTS RELATING TO SPECIAL ENVIRONMENTAL HAZARDS</b>					
50		Protection of human health and safety	Task execution area	<b>Principles of notifying about crisis situations</b>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<p>In the event of a crisis situation (other than flood), accident, major breakdown, etc., The Contractor is obliged to take the following actions:</p> <ul style="list-style-type: none"> <li>a) immediately notify the relevant services (Fire Brigade, Ambulance Service, Police, etc.);</li> <li>b) until the arrival of the relevant services, perform the necessary actions to reduce the risk of losses to personnel, property, and the environment (if possible, agreed with the relevant services);</li> <li>c) notify the PIU;</li> <li>d) upon the arrival of the relevant services, follow their recommendations and instructions.</li> </ul>	
51		Protection of human health and safety	Task execution area	<p><b>Principles of dealing with live bombs or misfires</b></p> <p>When a live bomb or misfire is found, The Contractor:</p> <ul style="list-style-type: none"> <li>a) immediately stops work at the site;</li> <li>b) ensures the evacuation of workers from the potentially explosive atmosphere;</li> <li>c) immediately notifies the licensed engineer unit and the Police, and then proceed in accordance with the recommendations received from them;</li> <li>d) notifies the PIU.</li> </ul> <p>It is strictly forbidden to pick up unexploded ordnance or misfires, dig it up, bury it, move it, throw it into fire or water, etc.</p>	The Contractor
<b>M - REQUIREMENTS FOR THE PROTECTION OF CULTURAL MONUMENTS</b>					
52		Protection of monuments	Task execution area	<p><b>Disclosed archaeological sites</b></p> <p>Not applicable due to the lack of a disclosed archaeological site.</p>	The Contractor
53		Protection of monuments	Task execution area	<p><b>Rules of conduct in the event of discovery of movable monuments or archaeological sites</b></p> <p>If, in the course of the works, an object is discovered which it is suspected or certain to be a monument or has historical value, The Contractor is obliged to:</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>a) suspend all works that may damage or destroy discovered objects and secure, using available means, this object, and the place of discovery;</li> <li>b) immediately notify the environmental supervision of the Contractor;</li> <li>c) immediately notify the Provincial Conservator of Monuments about this fact, and if this is not possible, the territorially competent head of the commune or mayor. The Contractor notifies the PIU in this regard at the same time;</li> <li>d) enable and ensure the conducting of documentation activities, archaeological research and other necessary activities indicated by the administration authorities responsible for securing objects and other historic substances;</li> <li>e) in the case of immovable monuments, after the completion described in point d. activities, the guidelines and other activities specified by the administration bodies responsible for securing objects and other historic substances should be implemented.</li> </ul>	
<b>N - REQUIREMENTS FOR IMPLEMENTING AND REPORTING EMP</b>					
54		Implementation and reporting of the EMP	Task execution area	<p><b>Appointment of the EMP Coordinator in the Contractor's team</b></p> <p>A person coordinating and supervising activities related to the implementation of the EMP will be appointed in the Contractor's team. The duties of this person will include:</p> <ul style="list-style-type: none"> <li>a) supervision over the implementation of individual EMP conditions in the subsequent stages of the Contract implementation;</li> <li>b) ongoing monitoring of the implementation status of individual conditions from Annexes 1 and 2 to the EMP in the area of the Contract implementation;</li> <li>c) informing the management of the Contractor's team on an ongoing basis about the obligations arising from the EMP at a given stage of works, as well as about problems in the implementation of the EMP;</li> <li>d) cooperation with the rest of the Contractor's team in ensuring the implementation of the EMP;</li> </ul>	The Contractor



## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>e) preparation of statements and reports for PIU (including commencement, monthly, quarterly, ad-hoc, final reports);</li> <li>f) cooperation with persons responsible for the implementation of the EMP in the PIU team.</li> </ul> <p>The person designated for the above-mentioned function requires the approval of the PIU.</p>	
55		Implementation and reporting of the EMP	Task execution area	<p><b>Environmental supervision</b></p> <p>Due to the small area of works related to the Contract and the lack of naturally valuable habitats and species (the diagnosis was made for the needs of the Environmental Impact Assessment Report for the construction of the radar station), The Contractor will not employ a team of naturalists responsible for constant supervision during the preparation and implementation of the works. natural construction site.</p> <p>The environmental supervision functions will be performed by the knowledgeable EMP Coordinator. Environmental supervision activities will be conducted in accordance with applicable regulations and good practices under the supervision of a representative of the PIU.</p>	The Contractor
56		Implementation and reporting of the EMP	Task execution area	<p><b>Duties of the EMP Coordinator as environmental supervision</b></p> <p>The environmental supervision will be involved in the implementation of mitigating measures related to the protection of natural environment resources, as defined in this EMP. Environmental supervision during the investment implementation period should in particular:</p> <ul style="list-style-type: none"> <li>a) check the current condition of habitats and populations of selected species in the investment area and in the buffer approx. 50 m around plot 330/3,</li> <li>b) monitor and determine the impact of the investment on the condition of the population of protected species and the habitats they occupy, as well as the condition of other components of the environment;</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>c) verify the methodology of the construction works conducted and their impact on the protected species and natural habitats as well as other components of the environment;</li> <li>d) react immediately in case of observed or highly probable negative impact of the works on the species and habitats to be protected;</li> <li>e) indicate the necessity and methods of performing activities minimizing losses in the natural environment;</li> <li>f) control and determine the effectiveness of the mitigation measures taken;</li> <li>g) in the case of situations requiring an additional opinion of a specialist, e.g., a dendrologist, ornithologist, the person conducting environmental supervision (in this case the EMP Coordinator) is responsible for employing an appropriate specialist for the consultation.</li> </ul>	
57		Implementation and reporting of the EMP	Task execution area	<p><b>Training of the Contractor's staff in the implementation of the EMP</b></p> <p>The Contractor is obliged to train its management and engineering and technical staff on the principles and methods of implementing these EMP conditions, which - in accordance with Annexes 1 and 2 to the EMP - are assigned to the Contractor. In monthly reports submitted to PIU, The Contractor will provide information on the training status of the Contractor's staff in the scope of the EMP conditions in the current reporting period.</p>	The Contractor
58		Implementation and reporting of the EMP	Task execution area	<p><b>Reporting the status of EMP implementation</b></p> <p>During the implementation of the Contract, The Contractor will submit monthly reports on the implementation of the conditions specified in the EMP (in the form of a checklist with the necessary attachments, including reports on the implementation of environmental supervision) and will include a description of the state of implementation of the EMP in monthly Reports.</p> <p>The template of the above-mentioned reports (checklist) will be developed by the Contractor and submitted for approval to PIU.</p>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŻRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				Depending on the circumstances, PIU may require the Contractor to submit additional reports, e.g., occurring crises, accidents, implementation of selected items of the EMP and others.	
59		Implementation and reporting of the EMP	Task execution area	<p><b>Discussing the implementation of the EMP during working meetings and Construction Councils</b></p> <p>During the implementation of the Contract, monthly meetings of representatives of the PIU and the Contractor will be held to discuss and control the implementation of mitigation and monitoring measures specified in the EMP. From these meetings, notes / protocols will be drawn up and attached to the monthly reports referred to in item 66. Notwithstanding the above, the current requirements and problems related to the implementation of the EMP will be discussed during all Construction Councils and included in the notes / protocols from Construction Councils.</p>	The Contractor
<b>O – OTHER REQUIREMENTS FROM THE ES SCOPE</b>					
60		Protection of human health and safety, other issues ES	Task execution area	<p><b>Obligation to comply with the requirements and conditions in the scope of ES</b></p> <p>The Contractor is required to apply and comply with all the requirements and conditions of the ES (environmental, social, and occupational health and safety) policies set out in the Contract documents, in the World Bank's Environmental and Social Policies and Procedures, in the World Bank's Guidelines concerning Environmental Protection, Health Protection and Safety Rules (EHS Guidelines), as well as those resulting from the provisions of legal acts in force in Poland (including the Labour Code, Construction Law and others).</p> <p>Requirements and conditions for ES specified in the above-mentioned sources against the Contractor and his staff (regardless of the legal form of cooperation) also apply, to the extent appropriate to the current situation, the Contractor's subcontractors, their staff, and subcontractors.</p>	The Contractor

**APPENDIX 1 – MITIGATING ACTION PLAN**

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŻRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

61		Protection of human health and safety, other issues ES	Task execution area	<b>Ensuring safety in the field of accidents at work</b>  The Contractor is obliged to provide such conditions for the performance of the Contract (including the conditions for the performance of works) to prevent accidents involving any persons related to the performance of the Contract (including, inter alia, the Contractor's staff, PIU, The Investor, BKP, subcontractors, suppliers, and others) and bystanders. In the event of an accident, The Contractor will immediately ensure proper treatment of the injured, notify and enable the access of appropriate services and secure the scene in a manner ensuring the safety of the abovementioned services and other people who may be in the area of the accident site. Regardless of the above actions, The Contractor will immediately inform the PIU of all accidents and potential accidents related to the performance of the Contract (both on the construction site and at any other locations), in accordance with the applicable procedures specified in the Contract documents.	The Contractor
62		Protection of human health and safety, other issues ES	Task execution area	<b>Provision of a health and safety specialist in the Contractor's team</b>  Throughout the duration of the Contract, The Contractor will be obliged to provide OHS supervision, whose task will be to ensure compliance with the OHS rules set out in the Contract documents and in the applicable provisions of national law. The qualifications of the person responsible for OHS supervision must comply with Polish labour law.	The Contractor
63		Other ES issues	Task execution area	<b>Ensuring the safety of people in the field of sexual harassment and mobbing</b>  The Contractor is obliged to provide such conditions for the performance of the Contract to prevent any cases of sexual harassment or mobbing in relation to the Contractor's staff and subcontractors, any other persons related to the performance of the Contract and any third persons. In the event of the above-mentioned cases of sexual harassment or mobbing, The Contractor will take steps to end the above-mentioned behaviours, and then immediately draw all the consequences provided for by law and internal company regulations towards their perpetrators and provide the victims of these behaviours with all necessary help and support, to the extent appropriate to the situation.	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŻRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				Regardless of the above actions, The Contractor will immediately inform the PIU of all cases of sexual harassment or mobbing, in accordance with the applicable procedures set out in the Contract documents.	
64		Other ES issues	Task execution area	<p><b>Educational activities to prevent cases of sexual harassment and / or mobbing</b></p> <p>The Contractor will conduct training and implement an awareness-raising program for the Contractor's staff in the field of preventing sexual harassment and mobbing. These activities will be conducted during the entire period of construction works, at least once every 2 months. They will take the form of information, educational and awareness campaigns on the subject of sexual harassment and mobbing.</p>	The Contractor
65		Other ES issues	Task execution area	<p><b>Ensuring appropriate working conditions and pay for staff</b></p> <p>The Contractor is obliged to provide the staff associated with the performance of the Contract with working and pay conditions that are fully compliant with the provisions of the labour law in force in Poland (in particular the Labour Code), including:</p> <ul style="list-style-type: none"> <li>a) The Contractor will provide equal pay for employees performing the same job, regardless of gender, sexual orientation, or age;</li> <li>b) persons employed under the Contract will not be persecuted or discriminated against due to their sex, sexual orientation, and age;</li> <li>c) The Contractor, in accordance with the possibilities and conditions and the Polish provisions of the Labour Code, will satisfy the living and social needs of employees at the workplace;</li> <li>d) The Contractor is obliged to help employees improve their professional qualifications.</li> </ul>	The Contractor
66		Other ES issues	Task execution area	<p><b>Educational activities in the field of filing complaints about working and pay conditions</b></p> <p>The Contractor will inform all persons employed in connection with the performance of the Contract about the possibility of filing complaints about working and pay conditions and will prepare and deliver to these persons an</p>	The Contractor

# APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				information leaflet with the necessary information on submitting complaints and applications, in which, inter alia, will ensure that there are no repercussions for the person reporting the problem.	
67		Other ES issues	Task execution area	<p><b>Principles of prevention of infectious diseases (including HIV / AIDS and diseases caused by coronaviruses)</b></p> <p>The Contractor will implement an awareness-raising program for the prevention of sexually transmitted diseases (including HIV / AIDS) and other infectious diseases (including those caused by coronavirus) and will take all other measures to reduce the risk of transmission of infectious diseases among the Contractor's staff and the community local. These activities must be performed in accordance with the detailed conditions specified in the Contract Bidding Documents.</p>	The Contractor
68		Other ES issues	Task execution area	<p><b>Rules of conduct in the event of an epidemic or epidemic threat</b></p> <p>If there is an epidemic or an epidemic emergency during the implementation of the Contract, The Contractor is obliged to:</p> <ul style="list-style-type: none"> <li>a) provide people on the construction site with the necessary precautions to maintain the health and safety of people related to the performance of the Contract, to the extent described in the Terms and Conditions of the Contract, in particular as regards the introduction of appropriate measures to avoid or minimize the spread of infectious diseases, including aimed at avoiding or minimizing the transmission of infectious diseases;</li> <li>b) appoint a person responsible under the Contract for matters related to the principles of occupational health and safety during an epidemic or epidemic emergency;</li> <li>c) implement the relevant recommendations of the World Bank and sanitary services in the territory of the Republic of Poland;</li> <li>d) cooperate with PIU, and in particular provide current information on taken or planned precautionary measures (including in the field of adequate protection of the construction site against unauthorized access, introduced procedures and appropriate updating of documents, in particular the Health and Safety Protection Plan);</li> </ul>	The Contractor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI

FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				e) organize an information campaign (e.g., in the form of posters and instructions placed on the construction site) on the methods of spreading the virus, symptoms and signs of infection, methods of protection (including regular hand washing).	
<b>P – SERVICE LIFE REQUIREMENTS</b>					
69		Service life, soil, and water protection	Task execution area	<b>Technical efficiency and vehicle inspections</b>  Only vehicles, machines and devices, the technical condition of which does not pose a risk of uncontrolled emissions of pollutants to the soil and water environment (e.g., fuel, oil, operating fluids, lubricants, etc. leaks) and air (exceeding the permitted exhaust emission standards) should be used for service visits.).	The Investor
70	II.21, III.4	Service life, soil, and water protection	Task execution area	<b>Ensuring the availability of sorbents in the vicinity of places exposed to the risk of emission of oil derivatives</b>  a) place the fuel tank for the generator in a separate room in the radar tower; b) in places exposed to the risk of uncontrolled emissions of petroleum substances to the ground and waters (in particular at a power generator), access to appropriate amounts of sorbents should be provided to eliminate the resulting spills and outflows of petroleum substances;  Use a double-walled fuel tank with a capacity of approx. 1,000 l, with anti-corrosion protection on the outer surface and protected with a drainage basin capable of receiving the entire contents of the tank; the tank should be equipped with: a) a system of mechanical overflow sensors during filling the tank; b) tightness control system in the interstitial space of the tank.	The Investor
71		Service life, soil, and water protection	Task execution area	<b>Procedure in the case of emission of petroleum pollutants</b>  In the event of any incidents related to the emission of petroleum substances to the environment (including the substrate and water), it is necessary to:	The Investor

## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				<ul style="list-style-type: none"> <li>a) immediately take measures to prevent the spread of contamination, using available means (e.g., sorbents);</li> <li>b) the soil contaminated as a result of the accident should be removed immediately, in accordance with the applicable regulations;</li> </ul> <p>in case of major breakdowns - apply procedures for notification of emergency situations.</p>	
72	II.19	Service life, soil and water protection, human safety, and hygiene	Task execution area	<p><b>Ensuring access to sanitary facilities</b></p> <p>Water for the sanitary facilities of the Užranki radar station should be taken from the water supply network.</p>	The Investor
73	II.20, III.3	Service life, soil, and water protection	Task execution area	<p><b>Principles of dealing with social and household sewage</b></p> <p>Household sewage should be collected in a sealed, drainless tank (septic tank), the content of which will be transferred to entities with appropriate permits for their management.</p>	The Investor
74		Service life, air protection	Task execution area	<p><b>Reducing exhaust gases air pollution</b></p> <p>In order to reduce the negative impact on the air condition:</p> <ul style="list-style-type: none"> <li>a) the idling time of the engines should be minimized and the principle of switching off the vehicles when parked, and the machinery and equipment off during work breaks, should be followed;</li> <li>b) only technically efficient vehicles, machines and devices with the required approvals should be used, which do not exceed the permitted standards for the emission of gaseous and dust substances into the atmospheric air.</li> </ul>	The Investor
75		Service life, noise protection	Task execution area	<p><b>Noise reduction</b></p> <p>Only technically efficient vehicles, machines and devices should be used, with sound emission (acoustic power) compliant with the applicable regulations and not exceeding environmental quality standards in terms of permissible noise levels.</p>	The Investor



## APPENDIX 1 – MITIGATING ACTION PLAN

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŻRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				In the vicinity of acoustically protected areas and buildings, service works that may generate significant noise, e.g., maintenance works on a power generator, should be conducted only during the daytime, i.e., from 6:00 a.m. to 10:00 p.m.	
76	III.5 (ref. pt. b)	Service life, protection of animate nature	Task execution area	<b>Animal protection</b> <ul style="list-style-type: none"> <li>a) the area of the radar station at night will be illuminated only by motion sensors, not twilight switches or other solutions illuminating continuously at night. For illumination, low-mounted lamps with light directed downwards and with low UV radiation emission should be used;</li> <li>b) an obstruction flashing light with a frequency of 20 to 40 flashes per minute will be installed on the tower.</li> </ul>	The Investor
77		Service life, protection of animate nature	Task execution area	<b>Maintenance of grasslands</b> <p>Nursing grasslands in the first growing season after their establishment is based on:</p> <ul style="list-style-type: none"> <li>a) sowing seeds.</li> <li>b) mowing: <ul style="list-style-type: none"> <li>• the first mowing should be conducted when the grass is about 10 cm high and should be mowed to a height of 6 cm,</li> <li>• subsequent mowing should take place at such intervals that the height of the grass does not exceed 15 cm,</li> <li>• the last, pre-winter mowing of lawns should be done 1 month in advance of the expected frost (for the climatic conditions of Poland, the first half of October),</li> <li>• after each mowing, cut grass should be removed from all surfaces, and the collected hay should be stored outside the construction site.</li> </ul> </li> </ul> <p>maintaining proper soil moisture. Mowing grasslands in subsequent growing seasons should be conducted twice a year.</p>	The Investor
78	II.23	Service life, soil, and water protection	Task execution area	<b>General rules of waste management</b>	The Investor

**APPENDIX 1 – MITIGATING ACTION PLAN** -----

DETAILED ENVIRONMENTAL MANAGEMENT PLAN - METEOROLOGICAL RADAR STATION IN UŽRANKI  
FOR 4A.3.1 CONTRACT, POLRAD WEATHER RADAR MODERNIZATION

				Collect waste generated during site inspections and repairs selectively, without storing at the radar station, and then forward for further management to entities authorized in this field.	
--	--	--	--	--	--