

Attachment 1 - Plan of mitigation measures

In this Attachment to the Environmental Management Plan for the Odra - Vistula Flood Management Project for the Contract **1B.3/2 - Stage II - The construction of docking-mooring infrastructure on Lower Odra River and on boundary sections of Odra River as well as new aids to navigation**, mitigation measures that provide guidance to the Contractor under the Contract 1B.3/2 Stage II have been presented. The costs and time schedule for the implementation of these activities should be included in the Bid. The condition related to discussing the implementation of the EMP at working meetings and Construction Councils (item 84) also applies to the Engineer and the PIU.

The conditions described in the Attachment 1 of the EMP are grouped into the following thematic categories:

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A	Requirements for the Task implementation schedule	1 - 2
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Explanatory notes to the table in the Attachment 1 of the EMP:

- 1) unless otherwise specified in a given case, the **Task Implementation Area** means the area where any preparatory works, main works (including Permanent Works and Temporary Works) and any works related to the remedying of defects and faults or the execution of unfinished works listed in the Take-over Certificate or disclosed during the Defects Notification Period, together with the areas of necessary temporary occupation, are carried out.
- 2) unless otherwise specified in a given case, the **Task Implementation Period** means the period of execution of any preparatory works, main works (including Permanent Works and Temporary Works) and any works related to the remedying of defects and faults or the execution of unfinished works listed in the Take-over Certificate or disclosed during the Defects Notification Period.

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Item	Issue	Place	Mitigation measure	Responsible party
A REQUIREMENTS FOR THE TASK IMPLEMENTATION SCHEDULE				
1	Schedule of Works	Task implementation area	<p>Terms and conditions of the EMP concerning the dates of works</p> <p>When establishing the schedules of works and at the stage of their execution, the Contractor shall take into account the conditions of the EMP concerning dates and times of various types of works to be carried out, including:</p> <ul style="list-style-type: none"> a) permissible dates for works in the Odra riverbed (see item 32); b) permissible hours for execution of works (see item 38); c) permissible dates for execution of works in the land part (see item 33) d) permissible dates for removal of rushes (see item 23). 	Contractor
2	Schedule of works	Task implementation area together with access roads and their surroundings	<p>Terms and conditions of the EMP concerning activities to be carried out before the commencement or at the initial stage of works.</p> <p>When establishing the schedules of works and at the stage of their execution, the Contractor shall take into account the conditions of the EMP concerning activities to be carried out before the commencement or at the initial stage of works, including:</p> <ul style="list-style-type: none"> a) conditions concerning the execution and equipping of construction backup facilities (see items 18, 47, 48, 55, 56, 63, 64); b) conditions concerning the transport service for the construction site (see items 3-17) c) condition concerning carrying out a one-off environmental inventory (see item 26); d) conditions concerning preparation of documents (see items 4, 20, 25, 54, 57-60, 67); e) conditions for obtaining the Engineer's approval for the person of the coordinator for the implementation of the EMP and the composition of the environmental supervision team and the sapper's supervision team (see items 79, 80, 82); 	Contractor

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			f) conditions for training on EMP implementation rules (see item 78); g) conditions for carrying out other types of training (see items 64, 66, 81, 89, 94).	
B REQUIREMENTS FOR THE TRANSPORT SERVICE OF THE TASK IMPLEMENTATION AREA				
	Protection of health and safety of people, protection of material goods, protection of soil surface	Access roads to the Task implementation area together with their surroundings	<p>Conditions for using access roads to the Task implementation area Transport related to the implementation of the Task will be carried out mainly by waterway. In the event of the use of access roads to the Task implementation area in a given location of a berthing place, the following conditions shall apply (the conditions are specified in items 3 - 13):</p>	Contractor
3			a) Access to the Task implementation area shall be determined on the basis of the existing roads.	
4			b) The Contractor shall prepare a design of traffic organisation and works protection for the duration of the Task implementation in accordance with the provisions contained in the Technical Specifications and requirements of road authorities concerning transport routes and conditions of their use.	
5			c) The Contractor shall agree with the road authorities on the design of traffic organisation and works protection. The Contractor shall organise the traffic according to the agreed design (marking and securing of works and marking of diverted traffic and recommended road signs associated with the change of traffic organisation, etc.).	
6			d) Prior to the commencement of works, the Contractor shall submit to the Engineer for approval, as agreed with the road authorities and the traffic management authority, a traffic organisation and works protection design. Depending on the needs and progress of the works, the traffic organisation and works	

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			protection design shall be kept updated by the Contractor.	
7			e) The Contractor shall ensure that all access roads to the Task implementation area are properly marked, in accordance with the applicable law and agreements with the relevant road authorities. These markings shall be regularly inspected by the Contractor; in the event of damage or theft of the markings, the Contractor shall immediately reconstruct or supplement them.	
8			f) The Contractor shall maintain the hardened areas in good technical condition within the Task implementation area, within which the traffic of vehicles will take place.	
9			g) The Contractor shall be liable for any damage to structures and buildings, roads, drainage ditches, culverts, water and gas pipelines, pillars and power lines, cables, geodetic network points and installations of any kind, and other objects such as vertical and horizontal signs, navigation signs, information boards, cultural goods objects, etc., caused by him or his Subcontractors during the Task implementation period. The Contractor shall immediately repair at his own expense any damage caused and, if necessary, carry out any other works ordered by the Engineer.	
10			h) The Contractor shall comply with the official axle load limits when transporting materials and equipment to and from the Task implementation area.	
11			i) The Contractor shall obtain all necessary permits from the authorities for the carriage of non-standard cargo and shall notify the Engineer of any such carriage on a continuous basis.	
12			j) The Contractor shall be obliged to prepare	

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			photographic documentation of the entire area of the Task implementation area and access roads, with particular emphasis on the technical condition of roads and buildings located in the vicinity of transport roads for building materials.	
13			k) Prior to the commencement of works, the Contractor shall carry out local inspections in the presence of road authorities, as the result of which reports on the condition of access roads to the Task implementation area will be drawn up. On this basis, the Contractor shall be obliged to restore the technical condition of roads from before the period of the Task implementation.	
14	Protection of wildlife	Task implementation area in the location of Pławidło	Possible use of the dirt road between the construction site of the berthing place and approx. 600.4 km is allowed outside the breeding period of the red kite (from 1 March to 31 August), due to the nest located here.	Contractor
15	Protection of health and safety of people, protection of material goods	Task implementation area and waterways	<p>Conditions related to the use of waterways</p> <p>a) The Contractor shall be liable for any damage to structures, navigational signs of waterways and other engineering structures and technical infrastructure caused by the Contractor or its Subcontractors during the execution of the works, including the transport of dredging spoil and equipment. The Contractor shall immediately repair at his own expense any damage caused and, if necessary, carry out any other works ordered by the Engineer;</p>	Contractor
16			b) The Contractor shall be obliged to prepare photographic documentation of the entire Task implementation area, with particular emphasis on the technical condition of the infrastructure indicated in item a);	
17			c) The Contractor shall be responsible for compliance with the navigational	

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			regulations on inland waterways and sea waters, with respect to its own vessels as well as those of its Subcontractors.	
C REQUIREMENTS FOR THE LOCATION OF CONSTRUCTION SIE FACILITIES				
18	Protection of wildlife	Task implementation area	No land based construction site backup facilities are envisaged. The Contractor shall provide construction site backup facilities on board the vessels.	Contractor
D REQUIREMENTS FOR DREDGING WORKS AND SPOIL MANAGEMENT				
19	Protection of water and soil		<p>Testing the quality of sediments for removal</p> <p>The contractor will carry out verification tests of the quality of sediments to be removed in locations selected on the basis of bottom surveys (carried out after the mooring sites are completed) in order to carry out the necessary dredging/pre-treatment works.</p> <p>The required scope and methodology of testing are specified in the Regulation of the Minister of the Environment of 11 May 2015 on the recovery of waste other than installations and devices (Journal of Laws of 2015, item 796).</p> <p>The contractor will also carry out verification tests of spoil if required by the Dredging works plan and the spoil management plan (see item 20), the method of management (in accordance with the requirements of the sediment recipient) or in the event of the situation indicated in item 21.</p> <p>The Contractor will submit reports on sludge quality tests to the Engineer.</p>	Contractor
20	Protection of water and soil	Task implementation area	<p>Dredging works plan and the spoil management plan</p> <p>The Contractor will prepare a Dredging works plan and a spoil management plan in accordance with the description in chapter 6.14 of the EMP for dredging works in location selected on the basis of bottom surveys (conducted once the mooring sites are completed) in order to conduct necessary dredging/pre-treatment works.</p> <p>Spoil management method should be determined in accordance with the provisions for waste</p>	Contractor

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			management, in accordance with the results of laboratory tests determining the degree of spoil contamination (see item 19). The dredging works plan and the spoil management plan need the Engineer's approval before dredging works commence.	
21	Protection of water and soil	Task implementation area	<p>Quality control of spoil during dredging operations</p> <p>If, as the result of current assessment and verification of spoil quality (see monitoring activity, item 97 in the Attachment 2 to the EMP), changes in the parameters and appearance of the spoil (e.g. colour, smell, consistency) are found:</p> <p>-The Contractor shall carry out control tests and determine the quality of the batch of spoil, in which changes in the parameters and appearance of spoil have been found, in accordance with applicable regulations (i.e. the Waste Act, the Environmental Protection Act and the executive acts of the aforementioned Acts). The tests should be carried out by laboratories accredited for such tests.</p> <p>If the presence of contaminated spoil is found, the Contractor shall handle the batch of contaminated spoil in accordance with the provisions of item 22: "Contaminated dredging spoil management".</p> <p>The contractor shall ensure the temporary storage of batches of suspected contaminated spoil until the results of the laboratory tests are available. The technology and conditions concerning the method of temporary storage of the spoil will be described by the Contractor in the Dredging works plan and the spoil management plan (see item 20). The adopted technology must not cause pollution of the environment.</p>	Contractor
22	Protection of water and soil	Task implementation area	<p>Contaminated dredging spoil management</p> <p>According to the results of the sediment quality surveys and their classification in this respect (see items 19 and 21), contaminated earth masses will be transported by water to transshipment points for land transport and then, after</p>	Contractor

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			<p>transshipment by land to appropriate landfills or to an authorised waste recipient.</p> <p>The exact locations of the target landfills, to which contaminated earth masses will be transported or waste recipients will be selected by the Contractor and must be approved in advance by the Engineer. These landfills must meet the requirements of the law with regard to the possibility of storing soil with different levels of pollution, and waste recipients must ensure the management of contaminated spoil in accordance with the Waste Act.</p> <p>The transshipment technology, including the conditions for the temporary storage of earth masses, will be described by the Contractor in the Quality Assurance Plan, which must be approved by the Engineer before the commencement of works included therein. The adopted technology cannot cause pollution of the environment within the adjacent areas.</p> <p>The method and the procedure of managing contaminated spoil shall be presented in the Dredging works plan and the spoil management plan (see item 20).</p>	
E REQUIREMENTS FOR REMOVAL OF RUSHES				
23	Protection of wildlife	Task implementation area	<p>Permissible date for removal of rushes</p> <p>Removal of rushes that interfere with the planned Task shall be carried out in the period of 01.10 - 28.02, i.e. outside the bird breeding season.</p>	Contractor
24	Protection of wildlife	Task implementation area	<p>Conditional removal of rushes outside the permissible date</p> <p>If it is necessary to remove the rushes during the bird breeding season, immediately before the cutting is carried out, an expert on bird fauna should carry out a visual inspection for the presence of bird habitats within the rushes, as indicated in item 80; in case the above habitats are found, in accordance with the registered habitats, appropriate permits should be obtained to derogate from the prohibitions applicable to particular protected fauna species</p>	Contractor

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			(based on the rules specified in accordance with the applicable regulations) - see also items 28 - 31.	
F	REQUIREMENTS FOR THE CONSERVATION OF PROTECTED NATURAL RESOURCES			
25	Protection of wildlife	Task implementation area	In order to avoid damage to marginal lake habitats, spawning disturbances, migration of fish and other aquatic organisms, the Contractor shall present, in the Quality Assurance Plan, a schedule and a plan of works, developed in consultation with the environmental supervision team (referred to in item 80). The Quality Assurance Plan must be approved by the Engineer before the start of the works included in it. The Contractor shall update the provisions of the above mentioned Quality Assurance Plan in accordance with the recommendations of the environmental supervision team, resulting from the observation of a one-off nature inventory (see item 26) or current inspections of the environmental supervision team (see item 27).	Contractor
26	Protection of wildlife	Task implementation area	One-off environmental inventory of the Task implementation area prior to the commencement of works Prior to the commencement of works, the environmental supervision team, referred to in item 80, shall carry out a one-off nature inventory of the Task implementation area. In particular, the riverside strip and the waters of the Odra River must be inspected visually, in particular in terms of the presence of fringed water lily (<i>Nymphoides peltata</i>). If habitats and species of fauna and flora subject to protection are found, for which it will be necessary to violate the prohibitions specified in the applicable regulations, decisions should be obtained allowing for derogations from the rules of the plant, fungi and animal species protection, referred to in items 28 - 31. The environmental supervision team shall designate protected habitats and sites of protected species that require protection against physical destruction during the implementation phase. The Contractor will mark with	Contractor

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			<p>contrasting tape protected habitats and stands of protected species for the duration of the works (see also items 40 - 43).</p> <p>Within the measure the Contractor's environmental supervision team will also carry out an assessment of the habitats of game species.</p>	
27	Protection of wildlife	Task implementation area	<p>Ongoing inspections of the environmental supervision team during the Task implementation period</p> <p>Works and other works carried out during the Task implementation period shall be carried out under the current supervision of the environmental supervision team (referred to in item 80).</p> <p>These experts, in accordance with the speciality and type of works carried out, should, inter alia, carry out regular inspections of the entire Task area (at least once a month) and currently submit their comments and recommendations to the Contractor's Team responsible for carrying out the works in accordance with the conditions of the EMP.</p> <p>Written minutes attached to the monthly reports on the implementation of the conditions of the EMP (referred to in item 83) should be drawn up from the executed inspections.</p>	Contractor
	Protection of wildlife	Task implementation area	<p>Obtaining a decision allowing for derogations from the rules on the plant, fungi and animal species protection</p> <p>If the presence of habitats or sites of protected species of flora and fauna is found in the Task implementation area before the commencement of works as a part of a one-off nature inventory indicated in item 26 or during the construction works (see also item 27), the following conditions shall apply (indicated in items 28-31):</p>	Contractor
28			<p>a) The Contractor shall obtain and submit for the Engineer's approval a written opinion of the environmental supervision team (referred to in item 80) containing the definition of the necessity to obtain the decision referred to in item b), and then, if it proves necessary in the light of the opinion referred to</p>	

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			above, it shall implement the measures referred to in items b-d (below),	
29			b) before taking any actions that could lead to the destruction of habitats and sites or scaring-off the protected species (in accordance with the opinion referred to in item a), the Contractor shall obtain administrative decisions required by law allowing for derogations from the prohibitions in force in relation to the protected plant, fungi and animal species.	
30			c) the obtained decisions shall be submitted by the Contractor to the Engineer for information.	
31			d) The Contractor shall precisely and timely implement the conditions contained in the above mentioned decisions [see also items 80, 81 and 86] and already obtained decisions (Attachment 8 to EMP)	
32	Protection of Wildlife, protection of surface water	Task implementation area	Dates for execution of works in the Odra riverbed Works interfering with the Odra riverbed shall be carried out outside the spawning period of fish and spawn incubation, i.e. outside the period from 1 March to 30 June.	Contractor
33	Protection of wildlife	Task implementation area	Protection of herpetofauna The works aimed at interfering with the river bank will be carried out between 30 September and 1 April, when the activity of reptiles and amphibians is minimal. In case of a berthing space in Osinów Dolny, in the period from 30 September to 15 March.	Contractor
34	Protection of wildlife	Task implementation area	In order to protect natural habitats, works will be carried out from the water side.	Contractor
35	Protection of wildlife	Task implementation area	Works interfering with the river bed will only be carried out within the designed berthing places for icebreakers.	Contractor
36	Protection of wildlife	Task implementation area	Action mitigating environmental damage by recovering the fauna individuals excavated during dredging works and transporting them to a safe place. The dredging works carried out in the Odra riverbed will be subject to permanent environmental supervision by the ichthyologist expert referred to in item 80. Observations on the drawing up	Contractor

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			<p>animals with river sediments and works on the relocation of individuals shall be carried out continuously during dredging works. If animals are found in the excavated sediments, they should be taken out and moved to temporary containers with river water.</p> <p>The retention time of organisms in temporary containers should be limited as much as possible, as indicated by the abovementioned ichthyologist expert. If necessary, use aeration (e.g. from a compressed oxygen cylinder). Caught animals should be displaced within a short distance of the investment but into places where:</p> <ol style="list-style-type: none"> 1) dredging works have not been carried out so far; 2) construction and dredging works are not planned at later stages; 3) habitats are identical or similar to those in which fauna was present. 	
37	Protection of Wildlife, protection of surface water	Task implementation area	<p>Protection of fish fauna against increased concentration of suspended solids in Odra River water</p> <p>The dredging works shall be carried out in accordance with the following rules:</p> <ol style="list-style-type: none"> a) in case concentrations of suspended solids higher than 200 mg/l or dissolved oxygen concentrations of < 4 mg O₂/l (at monitoring points located approx. 200 m below the work execution site) are found, the intensity of works should be limited (introduce 2-hour breaks every 2 hours) and if concentrations of >400 mg/l of suspended solids or <3 mg O₂/l dissolved oxygen are found, the works should be stopped immediately for at least 24 hours; b) resumption of works after any break caused by exceeding the suspended solids concentration must be preceded by re-measurement of the suspended solids concentration at monitoring points; c) resumption of works may take place only in conditions of the suspended solids 	Contractor

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			<p>concentration below 200 mg/l at monitoring points.</p> <p>Monitoring of suspended solids should be carried out on a daily basis, with measurement after at least 2 hours of work (with normal intensity). If the concentration exceeds 200 mg/l, the measurement must be repeated after a 2-hours break in works. In parallel with the measurement of suspended solids, dissolved oxygen concentration will be measured. If the value is below 4 mg O₂/l, the works will be stopped for a minimum of 2 hours, and if the value is below 3 mg O₂/l - for a minimum of 24 hours. The oxygen concentration should be measured in the middle of the water column - approx. 1.0 m below the surface.</p>	
38	Protection of Wildlife, protection against noise	Task implementation area	<p>Protection of bat fauna</p> <p>If work is carried out from the beginning of May to mid-August, which is the breeding season for animals, the noise generated by the mechanical equipment will be minimised by working only during the day, i.e. from sunrise to sunset.</p>	Contractor
39	Protection of wildlife, protection against noise	Task implementation area (excluding location in the area of Szczecin)	<p>Protection of bird fauna</p> <p>Due to the breeding of birds in the vicinity of the Task implementation area of species subject to protection, works related to the implementation of the Task should be carried out in the period from 1 October to 31 March. In case of a berthing place in Zatoń Dolna, in the period from 1 September to 1 March.</p>	Contractor
40	Protection of wildlife	Task implementation area in the location of Zatoń Dolna	<p>Protection of natural habitats</p> <p>The contractor shall secure the area of natural habitat 91F0 - an oak, elm and ash riparian forest, located in the immediate vicinity, e.g. by using a temporary fence to eliminate accidental damage during the works. Indication of places where the fence is to be made belongs to the tasks of the Contractor's environmental supervision referred to in item 80.</p> <p>The Contractor shall monitor the condition of the fence and shall carry out any necessary repairs.</p>	Contractor
41	Protection of wildlife	Task implementation area in the location of	<p>Protection of sites of protected species of flora</p> <p>The Contractor shall mark with a contrasting tape the area of</p>	Contractor

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		Pławidło, Osinów Dolny	presence of the marsh spurge <i>Euphorbia palustris</i> and shining spurge <i>Euphorbia lucida</i> for the duration of the works in order to protect this area from interference and accidental damage during the works. Indication of the places where the marking has been made is the responsibility of the Contractor's environmental supervision referred to in item 80. The Contractor shall monitor the condition of the fence and carry out all necessary repairs.	
42	Protection of wildlife	Task implementation area in the location of Kunice	Protection of sites of protected species of flora For the duration of the works, the area of the presence of dwarf everlast (<i>Helichrysum arenarium</i>) and the habitat 3270 - flooded muddy river banks - shall be marked with a contrasting tape in order to protect this place against interference and accidental damage during the works. Indication of the places where the marking has been made is the responsibility of the Contractor's environmental supervision referred to in item 80. The Contractor shall monitor the condition of the fence and carry out all necessary repairs.	Contractor
43	Protection of wildlife	Task implementation area in the location of Zatoń Dolna	Minimising the impact on beavers (<i>Castor fiber</i>) The Contractor will carry out the works under supervision of teriologist, who after the completion of the investment will assess the impact of the investment on the beaver family inhabiting the investment area and will indicate possible measures to mitigate the impact of mooring icebreakers.	Contractor
G	REQUIREMENTS FOR THE PREVENTION OF ENVIRONMENTAL POLLUTION (INCLUDING THE LIMITATION OF EMISSIONS INTO THE ENVIRONMENT)			
44	Protection of water and soil, protection of wildlife	Task implementation area	Use of construction materials complying with the regulations and standards and environmentally friendly materials The investment will be carried out using solely raw materials and construction materials (such as gravel, sand, stone, fascine), which will not cause any deterioration of the environment in relation to the existing condition. The construction materials to be used must have certificates and technical approvals	Contractor

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			allowing them to be used in construction industry.	
45	Protection of water and soil	Task implementation area	<p>Technical functionality and maintenance of vehicles, machinery and equipment</p> <p>The following conditions shall apply to the technical performance and maintenance of vehicles, machines and equipment:</p> <ul style="list-style-type: none"> • construction and dredging works shall be carried out using only technically operational machinery, in such a way as to prevent pollution from getting into water and soil; • The Contractor shall continuously carry out current inspections of the condition of vehicles, machinery and equipment and eliminate the possibility of any pollution entering the soil and water environment, including in particular the occurrence of spillage of fuels, hydraulic oils and petroleum-derivative substances, both during servicing, transport and operation of vehicles, machinery and equipment with available organisational means. • The vessels used in the implementation of the Task should be maintained in a technical condition ensuring proper protection of waters against pollution by harmful substances, in particular petroleum-derivative substances. 	Contractor
46	Protection of water and soil	Task implementation area	<p>Procedure in case of emissions of petroleum-derivative pollutants</p> <p>In the event of an emergency leakage of petroleum-derivative substances or other consumables into the soil or water, it is necessary to proceed with the immediate neutralisation of the leakage, its collection and transfer to entities authorised to manage waste for disposal.</p> <p>In the case of major accidents, use the procedures described in item 68.</p>	Contractor
47	Protection of water and soil	Task implementation area	<p>Equipping with sorbents</p> <p>At each section of the works (individual berthing places), adequate quantity of sorbents (suitable for use on solid surfaces and waters), necessary for use in</p>	Contractor

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			the event of uncontrolled leakages of petroleum-derivative substances, should be provided on vessels, in accordance with the developed spillage procedure described in detail in item 6.14 of the text of the EMP. Stands with sorbents should be located in the vicinity of places designated for the servicing of vehicles, machinery and equipment in the Task implementation area.	
48	Protection of waters	Task implementation area	Possession of oil spill containment booms on water In the area of the Task implementation, an appropriate number of oil booms on water shall be ensured, necessary for use in the event of uncontrolled leakage of petroleum-derivative substances - in accordance with the developed spillage procedure described in detail in item 6.14 of the text of the EMP.	Contractor
49	Protection of waters	Task implementation area (water part)	Refuelling of floating equipment Refuelling will take place in places designated for refuelling. If it is necessary to obtain a separate permit from the Director of the Inland Navigation Office in Szczecin to locate a bunkering or stopping place for a bunkering ship and the manner of its operation, the Contractor shall obtain such a permit.	Contractor
50	Protection of acoustic climate,	Task implementation area	Restricting works to daytime Construction works shall only be carried out during the daytime (6:00 - 22:00).	Contractor
51	Protection of acoustic climate, air protection	Task implementation area	Reducing noise and exhaust gases emissions from vehicles, machinery and equipment a) During the Task implementation period, the least acoustically onerous construction technologies should be used for execution of construction works, e.g. use vehicles, machines and equipment with the lowest possible noise levels and fully functional, switch off engines and equipment that are not working at a given moment, do not overload machines and vehicles, limit the operating time of engines at the highest revolutions, maintain good work organisation;	Contractor

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			b) During the Task implementation period, only technically functional vehicles, machines and equipment with sound emission (acoustic power) and exhaust gases emission in accordance with the applicable regulations shall be used.	
	Protection of acoustic climate, air protection	Task implementation area	Reduction of air pollution by exhaust gases In order to reduce the negative impact on the air condition:	Contractor
52			a) avoid leaving machines, vehicles or vessels idle (i.e. with engine running) during breaks in their work.	
53			b) vehicles and vessels should be parked with the engine turned off.	
H	REQUIREMENTS FOR WASTE AND WASTE WATER MANAGEMENT			
54	Protection of water and soil	Task implementation area	Preparation of Waste Management Plan (WMP) Prior to the commencement of works, the Contractor shall prepare a Waste Management Plan and shall obtain its approval by the Engineer. (see item 6.14 of the EMP text).	Contractor
55	Protection of water and soil, protection of air	Task implementation area	Waste management rules For the waste generated during the Task implementation, one shall: <ul style="list-style-type: none"> segregate and store it selectively in tight containers on vessels; Hazardous waste should be segregated and stored - until it is handed over to authorised entities for further management - separately in designated tight containers in a manner protecting against environmental pollution (in particular, liquid waste over 220 litres requires secondary protection against spillage, e.g. a leachate tray with the capacity of at least 110% of the largest container or 25% of the total volume of liquid waste). Containers and storage areas must be labelled and protected against access by third parties; ensure successive collection of waste by entities authorised to further manage it; 	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<ul style="list-style-type: none"> ship waste should be transferred to ship's waste reception points. waste management should be executed in accordance with the provisions of the Act of 14 December 2012 on Waste, the Act of 21 December 2000 on Inland Navigation and the Waste Management Plan referred to in item 54, Attachment 1 to the EMP. <p>The Contractor shall be obliged to keep waste records and submit the records to the Engineer for monitoring purposes.</p>	
56	Protection of water and soil	Task implementation area	<p>Rules for management of household and municipal waste water</p> <p>One shall provide the construction backup facilities with tight bathroom and toilet facilities for household waste water and ensure that they are emptied regularly by authorised entities.</p>	Contractor
I REQUIREMENTS FOR THE PROTECTION OF HUMAN HEALTH AND SAFETY				
	Protection of health and safety of people	Task implementation area	<p>Preparation of documents related to the security in the Task implementation area</p> <p>In the Task implementation area, order and proper organisation of works shall be maintained.</p> <p>Prior to the commencement of works, the Contractor shall prepare and obtain the Engineer's approval for the following documents related to safety on the construction site:</p>	Contractor
57			a) Health and Safety protection plan (the <i>BIOZ plan</i>) - see Section 6.14 of the EMP text.	
58			b) Plan of the organization of works and management of the construction site, see Section 6.14 of the EMP text.	
59			c) Safe Shipping Project (Instruction on operating and movement of vessels during the works) described in detail in item 6.14 of the text of the EMP, which the Contractor shall agree with the director of the Inland Navigation Office and the waterway administration.	
60	Protection of health and safety of people	Task implementation area	<p>ES Code of Conduct</p> <p>The Contractor shall take all necessary measures to ensure that the Contractor's personnel are informed about the ES Code of</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<p>Conduct submitted with the bid and described in item 6.14 of the EMP text, including specific prohibited behaviours, and that they understand the consequences of engaging in such prohibited behaviours.</p> <p>The Contractor shall also ensure that the ES Code of Conduct is visibly presented in the places where the Contractor's personnel are located.</p> <p>This condition applies to the Contractor and its staff, regardless of the legal form of cooperation and Subcontractors and their staff respectively.</p>	
61	Protection of health and safety of people	Task implementation area	<p>Sapper supervision in the Task area</p> <p>In order to minimise the risk associated with the possibility of dangerous objects of military origin being present in the Task area, the Contractor shall provide:</p> <ul style="list-style-type: none"> • before the commencement of works - sapper's reconnaissance of the Task implementation area (the report on sapper's reconnaissance will be submitted to the Engineer; • in the course of the works - sapper's supervision of the works (performed by the sapper supervision team), which consists in ongoing checking and cleaning the Task area from dangerous objects of military origin together with their disposal; • in case of finding dangerous objects of military origin in the Task implementation area - implementation of procedures described in item 69. 	Contractor
62	Protection of health and safety of people	Task implementation area	<p>Implementation of guidelines regarding requirements concerning the work safety</p> <p>The Contractor shall ensure implementation of detailed guidelines concerning the work safety, among other things in the scope of:</p> <ul style="list-style-type: none"> • construction site management, including hazardous zones; • storage and transport; • electrical systems and equipment; 	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<ul style="list-style-type: none"> • machines and technical devices; • earthworks; • works carried out on water; • demolition works; • underwater works. <p>contained in the legal regulations in force.</p>	
	Protection of health safety of people Protection of water and soil	Task implementation area	<p>Ensuring hygienic conditions In the Task implementation area, one shall:</p> <p>a) tight toilet facilities must be provided and use of them by the staff shall be ensured. (Rules for management of household and municipal waste water have been given in item 56).</p> <p>b) ensure that all employees are trained to maintain adequate hygienic conditions within the Task implementation area and its immediate surroundings.</p> <p>c) adequate amenities shall be provided for posted employees. When organising the site backup facilities, the provisions referred to in items 18, 55, 56 concerning the prohibition on establishing the land based backup facilities, municipal waste management and domestic and household waste water management shall apply.</p>	Contractor
63				
64				
65				
66	Protection of health safety of people	Task implementation area with surroundings	<p>Prevention of HIV-AIDS and other infectious diseases, including COVID 19 The Contractor, through an approved service provider, shall implement an HIV-AIDS awareness-raising programme (including conducting an appropriate training) and take all other measures to reduce the risk of HIV transmission among the Contractor's personnel and the local community. These activities shall be carried out in accordance with the detailed conditions set out in the Bidding Documents of the contract (Part 3, Section VIII - General Conditions, Clause 6.7). The training will also cover other infectious diseases (e.g. COVID 19).</p>	Contractor
J	REQUIREMENTS FOR EXCEPTIONAL ENVIRONMENTAL HAZARDS			
67	Protection of health safety of people	Task implementation area	<p>Rules for flood risk management In connection with the risk of flooding, the Contractor shall prepare a document entitled: Flood management plan for the</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<p>construction site and shall obtain the Engineer's approval (see item 6.14 of the EMP text).</p> <p>In the event of flood occurrence, the Contractor shall follow the procedures described in the above mentioned document.</p>	
68	Protection of health safety of people	Task implementation area	<p>Rules for notification of crisis situations</p> <p>In the event of a crisis situation (other than flood), accident, major breakdown, etc., the Contractor shall take the following actions:</p> <ul style="list-style-type: none"> • immediately inform the relevant services (Fire Brigade, Ambulance, Police, etc.); • until the arrival of relevant services, carry out necessary actions to reduce the risk of loss of personnel, property and the environmental losses (agreed with the relevant services, if possible); • notify the Engineer and the Employer; • upon arrival of the relevant services, follow strictly their recommendations and instructions. 	Contractor
69	Protection of health and safety of people	Task implementation area	<p>Rules for unexploded shells or ordnance management</p> <p>In case an unexploded shell or unexploded ordnance is found, one shall:</p> <ul style="list-style-type: none"> • stop the work immediately; • evacuate the area around the finding; • immediately inform the sapper supervision [see item 82] and the Police, and then follow their instructions; • notify the Engineer and the Employer. <p>It is strictly forbidden to lift, dig up, bury, carry, throw into fire or water, etc., unexploded shells or unexploded ordnance found.</p>	Contractor
70	Protection of health safety of people, protection of waters	Task implementation area	<p>Rules for management of leakage of petroleum-derivative substances</p> <p>In connection with the risk of possible leakage of petroleum-derivative substances, the Contractor shall prepare a document, a so-called spillage procedure and shall obtain its approval by the Engineer.</p> <p>In the event of occurrence of the above mentioned leakage, the</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			Contractor shall follow the procedures described in the above mentioned document.	
	Protection of health safety of people, protection of waters	Task implementation area	Guidelines for safety on the waterway / prevention of shipping accidents	Contractor
71			a) means of transport (floating sets) must meet the requirements of relevant regulations in force on the territory of the Republic of Poland in the field of inland navigation.	
72			b) means of transport (floating sets) in terms of parameters must be adapted to the conditions resulting from the current waterway class.	
73			c) the use of floating vessels in the execution of the works requires consultation with the competent Director of the Inland Navigation Office in Szczecin and the Director of the Maritime Office in Szczecin (in case of using sea waters).	
74			d) prior to the commencement of works, a Safe Shipping Project should be prepared, which requires approval by the Director of the Inland Navigation Office in Szczecin, the Director of the Maritime Office in Szczecin (in case of using sea waters) and with appropriate waterway administration.	
75	e) the work area and the waterway must be marked in accordance with the Inland Navigation Act and the local law to inform about the existing hazards and restrictions in shipping traffic. The method of marking and the location of the marking should be agreed with the Director of the Inland Navigation Office in Szczecin and with the competent waterway administration.			
K	REQUIREMENTS FOR THE PROTECTION OF CULTURAL MONUMENTS			
76	Protection of monuments	Task implementation area	Rules of conduct in case of discovery of movable monuments or archaeological sites If the Contractor, during the execution of construction works or earthworks, discovers an object which is supposed to be a monument, he is obliged to stop all works that may damage or destroy	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			the discovered objects, secure this object and the place of discovery with the use of available means, immediately notify the competent Voivodship Monument Conservator and, if this is not possible, notify the territorially competent: city mayor, mayor or commune head. The Contractor shall at the same time notify the Engineer accordingly about the above scope.	
77	Protection of monuments	Task implementation area	<p>Obtaining the permit of the Voivodship Conservator of Monuments</p> <p>In order to implement the provisions of the EMP related to the Protection of Cultural Heritage and Historical Monuments, the Contractor, if necessary, shall also obtain, on the basis of the power of attorney granted by the Employer, the permission of the Voivodship Conservator of Monuments (VCM) to carry out rescue archaeological surveys and carry out such surveys.</p>	Contractor
L REQUIREMENTS FOR THE CONTRACTOR'S PERSONNEL INVOLVED IN THE IMPLEMENTATION OF THE EMP				
78	Implementation and reporting of the EMP implementation	Task implementation area	<p>Training of the Contractor's staff in the EMP implementation</p> <p>The Contractor shall be responsible for conducting the training (concluded with a test verifying the knowledge of the participants) on the terms and conditions of the EMP and protective guidelines during the construction process for its management and engineering and technical staff supervising the construction site, which should be prepared with the assistance of its team of environmental experts. Employees of the Contractor who will deal with fuels and other petroleum-derivative substances and other substances harmful to health and the environment shall be trained in the principles of the soil and water environment protection and application of protection measures, including the use of sorbents.</p> <p>In the monthly reports submitted to the Engineer, the Contractor shall provide information on the state of training of the Contractor's personnel in the EMP conditions in the current reporting period.</p>	Contractor
79	Implementation and reporting of	Task implementation area	<p>Appointment of the EMP coordinator in the Contractor's team</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
	the EMP implementation		<p>A person will be appointed in the Contractor's team to coordinate and supervise activities related to the implementation of the EMP. The duties of such person will include, among other things:</p> <ul style="list-style-type: none"> • supervision of the implementation of particular EMP conditions in subsequent stages of the Task implementation; • ongoing monitoring of the status of implementation of particular conditions from the Attachments 1 and 2 of the Task implementation area; • keeping the management of the Contractor's team informed about the obligations arising from the EMP at a given stage of works as well as about any problems with the implementation of the EMP; • cooperation with the remaining part of the Contractor's team (including in particular the supervision of the environmental supervision team referred to in item 80) in ensuring the implementation of the EMP; • reporting on the implementation of the EMP (in accordance with the rules set out in items 83 - 85); • cooperation with persons responsible for the implementation of EMP in the team of the Engineer and the Employer. <p>The EMP Coordinator cannot be a member of the Contractor's team of environmental experts (environmental supervision). The person appointed to the above mentioned function requires the Engineer's approval</p>	
80	Implementation and reporting of the EMP implementation	Task implementation area	<p>Provision of environmental supervision team</p> <p>Throughout the Task implementation period, the Contractor shall ensure the participation of a team of environmental experts (environmental supervision), composed of representatives of the following specialities:</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<p>a) expert on botany /phytosociology (natural habitats and protected plant species);</p> <p>b) zoologist - expert on fish fauna (fish);</p> <p>c) zoologist - expert on herpetology (amphibians and reptiles);</p> <p>d) zoologist - expert on bird fauna (birds);</p> <p>e) zoologist - expert on mammals (non-flying mammals).</p> <p>These experts will be involved in the implementation of selected mitigation and monitoring activities specified in the EMP, and in particular:</p> <p>a) mitigation activities listed in the Attachment 1 of the EMP in the items, in particular: 24, 25 - 31, 36, 40 – 43, 81, 85 - 86;</p> <p>b) monitoring activities listed in the Attachment 2 of the EMP in the items, in particular: 24, 25 - 31, 36, 40 – 41, 81, 85 – 86.</p> <p>The personal composition of the environmental experts' team requires the Engineer's approval. One member of the environmental supervision team may represent a maximum of two environmental specialisations listed in items a) to e) above.</p>	
81	Implementation and reporting of the EMP implementation	Task implementation area	<p>Tasks of the environmental supervision team</p> <p>The task of environmental supervision will be to take appropriate protective measures in the event of a risk to protected species of fauna and flora as the result of construction works. In particular, the duties of the environmental supervision should include:</p> <ul style="list-style-type: none"> - prior to the commencement of the Task implementation, checking the area, on which the construction works are to be carried out in terms of the presence of protected species sites; - indicating the location of security devices (fencing and warning tape), referred to in items 40 - 43; - if habitats and species of fauna and flora subject to protection are found, for which it will be 	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<p>necessary to breach the prohibitions set out in the applicable regulations, obtaining of appropriate permits for the execution of these activities before commencing construction works (see items 28-31);</p> <ul style="list-style-type: none"> - provision of supervision during execution of construction and dredging works; - training the contractor's employees in the procedure to be followed in the event of situations on the construction site, which pose a risk to the natural environment. 	
82	Implementation and reporting of the EMP implementation	Task implementation area	<p>Provision of sapper supervision team</p> <p>The Contractor will ensure the participation of the sapper supervision team for the whole duration of the Task implementation period.</p> <p>Such team will be involved in the implementation of selected mitigation activities specified in the EMP (in particular the activities listed in item 61).</p> <p>Depending on the needs, the sapper supervision team may consist of at least one or more persons holding relevant industry licences. The team composition of the sapper supervision team requires the Engineer's approval.</p>	Contractor
M REQUIREMENTS FOR THE REPORTING OF THE EMP IMPLEMENTATION				
83	Implementation and reporting of the EMP implementation	Task implementation area	<p>Reporting on the state of implementation of the EMP in monthly reports</p> <p>During the Task implementation period, the Contractor shall timely submit monthly reports to the Engineer on the implementation of conditions specified in the EMP (in the form of a checklist together with the necessary attachments, including reports on the implementation of environmental supervision).</p> <p>The Contractor shall prepare a template of the above report (checklist) and shall obtain the Engineer's approval for this document.</p> <p>Depending on the circumstances, the Engineer may require from the Contractor to submit additional reports concerning, among other things, crisis situations,</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			implementation of selected items of the EMP and other things.	
84	Implementation and reporting of the EMP implementation	Task implementation area	<p>Discussing the implementation of EMP during working meetings and construction site meetings</p> <p>During the Task implementation period, monthly meetings of representatives of the PIO, Engineer and Contractor will be held to discuss and control the implementation of mitigation and monitoring activities specified in the EMP.</p> <p>Regardless of the above, current requirements and problems related to the implementation of the EMP will be discussed at all construction site meetings.</p>	Project Implementation Office, Contractor
	Implementation and reporting of the EMP implementation	Task implementation area	<p>Reports of the Contractor's environmental team</p> <p>The Contractor's environmental team keeps reporting:</p>	Contractor
85			<p>a) preparing periodic reports (monthly, quarterly and final reports) on the implementation of conditions specified in the EMP (in the form of a checklist with the necessary attachments, including reports on the implementation of environmental supervision) submitted to the Engineer and requiring his / her approval.</p>	
86			<p>b) preparation of reports submitted to the relevant environmental authorities in accordance with the terms of decisions allowing derogations from the prohibitions applicable to species subject to species protection (see also items 28-31).</p> <p>The preparation of the documents indicated in items a) and b) shall be the responsibility of the coordinator for the EMP in the Contractor's team.</p>	
N	SPECIFIC REQUIREMENTS OF THE ES WORLD BANK POLICIES			
87	Protection of health and safety of people Protection of waters, protection of natural resources	Task implementation area	<p>Contractor's responsibility for compliance with the ES</p> <p>The Contractor shall ensure that all the requirements and conditions of the ES and the Code of Conduct referred to in item 60 are met.</p> <p>This condition applies to the Contractor and its staff, regardless of the legal form of cooperation and</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			respectively – to Subcontractors and their staff.	
88	Protection of health and safety of people	Task implementation area	<p>Prevention of sexual harassment and mobbing</p> <p>The Contractor shall ensure that during the execution of the Contract, such conditions are in place as to prevent mobbing and sexual harassment to its staff and Subcontractors' staff, as well as to other persons (whether related to the execution of the Contract or third parties).</p>	Contractor
89	Protection of health and safety of people	Task implementation area	<p>Awareness-raising on the prevention of sexual harassment and mobbing</p> <p>The Contractor shall, through an approved and qualified service provider, conduct training and implement an awareness-raising programme on the prevention of sexual harassment and mobbing. These activities shall be carried out throughout the entire term of the Contract, including the defects notification period at least every two months. These will take the form of information, education and awareness-raising campaigns.</p>	Contractor
90	Protection of health and safety of people	Task implementation area	<p>Reporting cases of sexual harassment and mobbing</p> <p>It is the Contractor's duty to inform the Consultant immediately about all reported cases and suspicions concerning sexual harassment and mobbing.</p> <p>All reported cases and suspicions concerning sexual harassment and mobbing should be entered in the register of complaints and requests kept by the Contractor.</p> <p>In the case of mobbing or sexual harassment, the Contractor shall be obliged to take actions aimed at immediate termination of such behaviour and to take all legal measures against the perpetrators of such behaviour. The Contractor shall be also obliged to provide all necessary assistance and support to the victims of such conduct.</p>	Contractor
91	Protection of health and safety of people	Task implementation area	<p>Ensuring that staff employed in the implementation of the Task can submit complaints and requests</p> <p>Contractor will inform all employees on the construction site about the possibility of lodging complaints about working and pay conditions and will provide an information leaflet with the</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			necessary information on how to lodge complaints and requests, in which it will ensure that there are no repercussions for the person reporting a problem. The Contractor will keep a register of complaints and requests. The content of the leaflet and the format of the register will be agreed with the Consultant.	
92	Protection of health and safety of people	Task implementation area	Ensuring accident-free working conditions The Contractor shall ensure such conditions in the Task area and outside the Task area (during activities related to the execution of the Task, e.g. during transport) as to prevent accidents involving persons related to the execution of the Contract, including Contractor's, Engineer's, Investor's, Subcontractors' staff, etc., as well as third parties. In the event of such accidents, it is necessary to: <ul style="list-style-type: none"> • immediately ensure proper handling of the injured party; • secure the location of the accident; • inform the Engineer as soon as possible about the accident and about the Contractor's reaction to the accident; • notify the relevant services and allow them to reach the place of the accident. 	Contractor
93	Protection of health and safety of people	Task implementation area	Conditions of employment of young workers In connection with the execution of the Contract, Contractor may employ only such a minor who is at least 15 years old, has completed primary school of at least eight years duration and has presented a medical certificate stating that the work in question does not endanger his / her health. The Contractor shall ensure that juvenile employees (persons under 18 years of age) will not perform works prohibited to juvenile employees, specified in relevant regulation (see p. 6.15 of EMP).	Contractor
94	Protection of health and safety of people	Task implementation area	Health and Safety Supervision by the Contractor During the Task implementation period, the Contractor will ensure constant supervision of health and safety at work. The scope of duties, qualifications and personal	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			composition of the Contractor's HS services shall be in accordance with the Polish labour law regulations. Prior to the commencement of works, the Contractor's health and safety supervision shall conduct a dedicated training for the Contractor's personnel in the field of work safety and accident risk during the execution of the Task.	
95	Protection of health and safety of people	Task implementation area	<p>The Contractor shall be obliged to apply and comply with all labour law regulations in force in Poland, in particular all provisions of the Labour Code, and shall act in accordance with the ES Code of Conduct. In particular, the following issues should be reflected in the Contractor's employment policy and the remuneration regulations:</p> <ul style="list-style-type: none"> • ensuring equal pay for employees performing the same work without taking into account gender, sexual orientation or age; • ensuring that persons employed in the Contract are not persecuted or discriminated against on the basis of gender, sexual orientation and age; • ensuring that the Contractor, in accordance with the possibilities and conditions and the Polish Labour Code provisions, will meet the living and social needs of employees in the workplace; • ensuring by the Contractor to make it easier for employees to improve their professional qualifications. 	Contractor
0	GUIDANCE IN THE EVENT OF STATE OF EPIDEMIC OR AN EPIDEMIOLOGICAL THREAT DURING WORKS			
96	Protection of health and safety of people	Task implementation area	<p>In the event of a state of epidemic or an epidemiological threat during the works, the Contractor is obliged to:</p> <p>a) provide persons at the Construction Site with all necessary means to maintain the health and safety of manual workers, the Contractor's Personnel, to the extent described in the Contract Terms and Conditions, in particular to introduce appropriate measures to avoid or minimise the spread of diseases, including measures aimed at</p>	Contractor

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Item	Issue	Place	Mitigation measure	Responsible party
			<p>avoiding or minimising the transmission of infectious diseases that may be associated with the inflow of temporary or permanent workforce in relation to the implementation of the Contract, in a manner specified in the applicable Law, e.g. regulations issued on the basis of Article 46a of the Act of 5 December 2008 on preventing and combating infections and infectious diseases in humans (consolidated text: Journal of Laws of 2019, item 1239, as amended) on establishing certain restrictions, orders and bans in connection with the occurrence of an epidemic</p> <p>b) designate for the Contract a person responsible for matters related to health and safety at the time of the epidemic or epidemiological threat,</p> <p>c) implement the relevant recommendations of the World Bank and sanitation services in the Republic of Poland</p> <p>d) cooperate with the Employer and the Engineer, in particular to provide current information on precautionary measures taken or planned, including in the field of adequate securing the Construction Site against unauthorized access, procedures introduced, and appropriate update of documents described in item 6.13, in particular the BIOZ Plan, Waste Management Plan, Construction Site Organisation Project, Management Strategy and ES Implementation Plans</p> <p>e) organise an information campaign (e.g. in the form of posters and instructions on the Construction Site) regarding the symptoms of infection, the spread of the virus, methods of protection (including e.g. regular hand washing)</p> <p>f) organise training courses for the manual workers, the</p>	

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Item	Issue	Place	Mitigation measure	Responsible party
			<p>Contractor's Staff, covering at least:</p> <ul style="list-style-type: none"> i. updated procedures and documents, ii. symptoms of COVID-19 (or another infectious disease related to the state of epidemic/epidemiological threat), including information on self-monitoring, virus spread, available protective measures, iii. course of action after noticing symptoms in oneself or others, iv. applicable regulations regarding the quarantine of employees and their families, remuneration for the period of illness, isolation, or quarantine, provision of health care, including sanitary transport, in connection with the prevention of infections v. applicable procedures for reporting violations or reporting complaints by employees, vi. management of waste – e.g. masks, gloves, disinfectant liquids and cleaning agents. <p>In the event of a state of epidemic or epidemiological threat, to the extent permitted by law, training should be conducted via electronic means of communication or in the form of self-education.</p> <p>The above rules should be applied in an appropriate manner in the event of an epidemic or epidemiological threat being announced in the Republic of Poland in connection with an infectious disease.</p>	