## **Appendix 2. Plan of Monitoring Measures**

This Appendix to the Environmental Management Plan (EMP) for the **Contract 1B.9** "Modernisation of flood embankment along the Ślęzoujście Street with road infrastructure" specifies the conditions for the implementation of the Contract in terms of monitoring measures relating to the implementation of mitigation measures indicated in Appendix 1. The data in the tables below are a summary of monitoring measures to be carried out by the Contractor, the Engineer and the PIU during the term of the above-mentioned Contract.

The costs and the schedule of implementation of these measures should be included in the total bid price. The Contractor shall cover all costs related to the implementation of the EMP, and the Accepted Contract Amount shall include these costs.

The plan of monitoring measures, where necessary, will be carried out taking into account the World Bank's Policy as expressed in the Operational Manual of the Odra-Vistula Flood Management Project, the World Bank's Operational Policy OP.4.12 in cooperation with the team implementing this Plan.

## NOTE:

Due to the small technical and financial scope of the Contract and the extensive experience of the Supervision Inspectors employed in the Road and City Maintenance Authority in Wrocław, this unit may act as an Engineer if it obtains the relevant approval of the World Bank. In the event of such a deviation from the standard organization of the organizational structure of the EMP implementation, all activities assigned as the Engineer's duties will be performed by a team of Inspectors at ZDiUM.

Definitions of the table in Appendix 2 of the EMP:

- 1. The measures enlisted to in the table of Appendix 2 EMP refer to the monitoring of the implementation of mitigation measures as referred to in Appendix 1 thereto (quoted there literally in the *Monitoring Subject* column);
- 2. Unless otherwise stated, the definition *Contract Area* refers to the area of performance of any preparatory works, main works (including Permanent and Temporary Works) and any other works related to removal of faults and defects or completion of unfinished works enlisted in the Take-over Certificate or reported in the Defects Liability Period, Guarantee and Warranty together with the area of necessary temporary acquisition;
- 3. Unless otherwise stated, the definition *Contract Implementation Period* refers to the period of performing any preparatory works, main works (including Permanent and Temporary Works) and any other works related to removal of faults and defects or completion of unfinished works enlisted in the Take-over Certificate or reported in the Defects Liability Period, Guarantee and Warranty;
- 4. Unless otherwise stated, the definition *Contractor's Team* in the column *the Party in charge* refers personally to the EMP Coordinator in the Contractor's Team (referred to in item 87 of Appendix 1 to the EMP), co-operating with the Site Manager and the remaining part of the Contractor's Team (including the environmental experts team and archaeological and sapper experts team);
- 5. Unless otherwise stated, the definition *Engineer's Team* in the column *the Party in charge* refers personally to the Environmental Management Expert in the Contract Engineer's Team, co-operating with the relevant Supervision Inspectors and the remaining part of the Engineer's Team.
- 6. The construction area / construction site means the places where the Permanent Works are to be carried out, including storage and working places to which the Equipment and Materials are to be supplied, as well as other places indicated in the Contract as forming part of the Construction Site. The terms "construction area" and "construction site" are terms used interchangeably and understood in the Terms and Conditions as "Construction Site".

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities			
	A. REQUIREMENTS ON SCHEDULE OF WORKS								
1	Schedule of works	EMP conditions on the schedule of works and EMP conditions on activities to be carried out	Contract area	The Contractor's Team	Prior to commencement of the Contract implementation period and during Contract implementation (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Review of work schedules.  Ongoing control of compliance with the EMP terms quoted in item 1 and 2 of Appendix 1 (descriptions for these items in the table in Appendix 1).			
	activities to be carried out before or at the initial stage of works		The Engineer's Team	Prior to commencement of the Contract implementation period and during Contract implementation (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Ongoing monitoring of compliance with the EMP terms quoted in item 1 and 2 of Appendix 1 (descriptions for these items in the table in Appendix 1).  Review of the documentation submitted by the Contractor to the Engineer.				

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
			B. RI	EQUIREMENTS	ON ROAD ACCESS TO THE CONTRACT AREA	
2	Earth surface protection/ Health and safety protection,	Conditions for using access roads to the Contract area	Access roads to Contract area with their	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>3</b> , <b>4</b> , <b>5</b> , <b>6</b> , <b>7</b> , <b>8</b> , <b>9</b> , <b>10</b> and <b>11</b> of <b>Appendix 1</b> (descriptions for these items in the table in Appendix 1), by:  Visual monitoring, photo documentation.
	Protection of tangible		neighbor hood			Control of the progress of works on the subject arrangements and their compliance with the requirements of the EMP.
	assets				Review of the Contractor's documentation on the traffic management and on service of the Contract area.	
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
3	Protection of tangible assets, earth	Setting out new access roads to the Contract implementation area	Access roads to Contract	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing	Control of compliance with the EMP condition in <b>item 12 of Appendix 1</b> (description for this item in table in Appendix 1), by:
		protection, neighbor		basis, not less than once per week	Visual monitoring, photo documentation.	
	water protection, protection		their neighbor			Review of the Contractor's documentation on the traffic management and on service of the Contract area.
	of animate nature					Control of the participation of and arrangements made by required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities			
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Control of the participation of required experts.  Review of the documentation submitted by the Contractor to the Engineer.			
	c. REQUIREMENTS ON LOCATIONS OF SITE FACILITY AND SERVICE ROADS AND YARDS								
4	Water and soil protection, Protection of animate nature, protection of acoustic climate	Obligation to build site facility, service roads and yards  and  Conditions for the location of construction site facility, yards, storage/disposal sites, and service roads	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 13, 14 and 15 of Appendix 1 (descriptions for these items in the table in Appendix 1), by:  Review of the Contractor's documentation on site facilities management.  Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.			
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.			
5	Earth surface protection, Water and	Economical use of the site and limitation of works within the embanked area	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>16 and 17 of Appendix 1</b> (descriptions for these items in the table in Appendix 1), by: Visual monitoring, photo documentation.			

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
	soil protection			The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
6	Land acquisition among others for temporary acquisition	Payment of compensations and Grievance Redressal Mechanism	Contract area	PIU/Contractor' s Team /Engineer	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Control of compliance with the EMP condition in <b>item 18 of Appendix 1</b> (description for this item in table in Appendix 1), by:  Review of the Contractor's documentation on buy-outs and compensation.
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.
			D. REQ	UIREMENTS OF	N THE QUALITY AND MANAGEMENT OF SOILS	
7	Water and soil protection	Management of the soils from within the construction site	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 19 of Appendix 1</b> (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.  Assessment of progress of work on the
						document and its compliance with the EMP requirements.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
			E. REQ	UIREMENTS ON	I PROCEEDING WITH TOPSOIL/MINERAL SOIL	
8	Soil protection, Protection of animate nature	Collecting, storing and use of the top layer of soil	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 20, 21 and 22 of Appendix 1 (descriptions for these items in the table in Appendix 1), by: Review of the documentation on the site facilities management and proceeding with the topsoil layer.  Visual monitoring, photo documentation.
						Control of the participation of and arrangements made by required experts.
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
9	Earth surface protection, soil protection, protection	Collecting and storing the mineral soil layer	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 23 and 24 of Appendix 1 (descriptions for these items in the table in Appendix 1), by: Review of the documentation on the site facilities management and proceeding with the topsoil layer.
	of animate nature					Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities			
				The Engineer's	During the Contract implementation period (including, inter alia during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.			
						Review of the documentation submitted by the Contractor to the Engineer.			
						Control of the participation of required experts.			
	F. REQUIREMENTS ON REMOVING (FELLING) TREES AND SHRUBS								
10	Protection of animate nature	Permissible date of removing (felling) trees and shrubs	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 25 of Appendix 1</b> (description for this item in table in Appendix 1), by: Review of work schedules.			
						Visual monitoring, photo documentation.			
						Control of the participation of and arrangements made by required experts.			
				The Engineer's	During the Contract implementation period - on an	Visual monitoring, photo documentation.			
				Team	ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.			
						Control of the participation of required experts.			
11	Protection of animate nature	replacement plantings (in accordance with the Replacement Greenery	placement plantings (in area cordance with the placement Greenery	ct The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 26 of Appendix 1</b> (description for this item in table in Appendix 1), by: Review of work schedules.			
		Design on plot 25/3, AM- 12, Złotniki precinct,				Visual monitoring, photo documentation.			
						Control of the participation of and			

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
		volume PW06 / 02)				arrangements made by required experts.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
12	Protection of animate nature	Environmental supervision before and during the removal (felling) of trees with diameter over 50 cm	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 27 of Appendix 1 (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities				
	G. REQUIREMENTS ON PROTECTING TREES AND SHRUBS NOT INTENDED FOR REMOVAL (FELLING)									
13	Protection of animate nature	Protection of tree trunks not intended for removal (felling) and Protection of the areas under crowns of trees and shrubs	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 28 and 29 of Appendix 1 (descriptions for these items in the table in Appendix 1), by: Review of the documentation on the site facilities management. Visual monitoring, photo documentation. Control of the participation of and arrangements made by required experts.				
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.				
14	Protection of animate nature	Preventive cutting of branches of trees exposed to damage	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 30 of Appendix 1 (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.				

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
15	Protection of animate nature	Carrying out works within root blocks of trees and shrubs  and  Securing of exposed roots of trees and shrubs or aboveground parts of trees and shrubs	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 31, 32 and 33 of Appendix 1 (descriptions for these items in the table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of and arrangements/opinions made by required experts.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities				
	н. REQUIREMENTS ON SECURING PROTECTED NATURAL RESOURCES									
16	Protection of animate nature	One-time nature inventory of the area of works before the commencement of works	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 34 of Appendix 1 (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.  Control of the progress of obtaining and submitting of required administrative decisions.				
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.				
17	Protection of animate nature	Limiting the time of the Contract completion	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 35 of Appendix 1 (description for this item in table in Appendix 1), by: Review of work schedules. Visual monitoring, photo documentation.				
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.				

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
18	Protection of animate nature	Securing the Contract area against small animals entering the site and Inspection of places that could be traps for small animals	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week.  During migration of amphibians inspect the fencing 2 times a day (in the morning and in the evening).	Control of compliance with the EMP conditions in items <b>36 and 37 of Appendix 1</b> (descriptions for these items in the table in Appendix 1), by: Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
19	Protection of animate nature	Ongoing liquidation of marginal water deposits in the Contract area	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 38 of Appendix 1</b> (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
20	Protection of animate nature	Trapping and relocating small animals from the Contract area	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 39 of Appendix 1 (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.
						Control of the participation of and arrangements made by required experts.

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
21	Protection of animate plant species nature	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 40 of Appendix 1 (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.	
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
22	Protection of animate nature	Ongoing inspections of the team of environmental experts during the Contract implementation period	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 41 of Appendix 1</b> (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
23	Protection of animate nature	f Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the habitats and sites of protected species and  Relocation of protected	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>42</b> and <b>43</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix <b>1</b> ), by: Visual monitoring, photo documentation.  Control of the participation of and arrangements made by required experts.  Control of the progress of obtaining and submitting of required administrative decisions.
	species	The Engineer's Team		During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.	
		i. REQUIREMEN	TS ON REI	NSTATEMENT (	OF THE SITE AFTER THE COMPLETION OF CONSTR	RUCTION WORKS
24	Protection of animate nature	Reinstatement of topsoil layer and green areas and tidying up the site after completion of works	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 44 of Appendix 1 (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.  Control of the participation of required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
25	Protection of animate nature	Caring for grasslands (in accordance with the Replacement Greenery Design on plot 25/3, AM-12, Złotniki precinct,	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 45 of Appendix 1</b> (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.  Control of the participation of required experts.
	volume PW06 / 02)	volume PW06 / 02)		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
		J.	REQUIRE	MENTS ON THE	PRVENTION OF THE ENVIRONMENTAL POLLUTI	ON
26	Water and soil protection, Health and	The use of construction materials in accordance with regulations and standards, and harmless	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>46 and 47 of Appendix 1</b> (descriptions for these items in the table in Appendix 1), by: Visual monitoring, photo documentation.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
	safety protection, Protection of animate nature	to the environment and Technical efficiency and inspections of vehicles, machines and equipment		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
27	Water and soil protection	Conditions on the location of the sites for collection and production of construction materials	Contract area	The Contractor's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 48 of Appendix 1</b> (description for this item in table in Appendix 1), by: Review of the documentation on the construction site management.  Visual monitoring, photo documentation.
				The Engineer's Team	During the Contract implementation period (including, inter alia, prior to the commencement of works and during performance of the works) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
28	Water protection	Reducing time and number of drainage and the ban to dispose of water from excavations	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 49 of Appendix 1</b> (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.
		directly to watercourses		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
29	Protection of animate nature, earth surface protection	Conditions for movement of vehicles, machines and equipment in the Contract area and Parking place for machines and vehicles	Contract area	The Contractor's Team  The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per week  During the Contract implementation period - on an ongoing basis, not less than once per month	Control of compliance with the EMP conditions in items <b>50 and 51 of Appendix 1</b> (descriptions for these items in the table in Appendix 1), by: Visual monitoring, photo documentation.  Visual monitoring, photo documentation.  Review of the documentation submitted by the
30	Water and soil protection	Sealing of the ground intended for movement of vehicles, machines and equipment on the construction site	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Contractor to the Engineer.  Control of compliance with the EMP conditions in items <b>52</b> , <b>53</b> , <b>54</b> , <b>55</b> and <b>56</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the participation of required experts.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
		The ban to carry out maintenance activities and repairs of vehicles, machines and equipment beyond the construction site  and  Designation and sealing of garages and maintenance of vehicles, machines and equipment and  Ensuring the discharge of water from parking yards and roads to sewage systems  and  A stand with a sorbent near the service and parking yards for vehicles, machines and		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.  Control of the participation of required experts.
31	Water and soil protection	equipment  Guidelines for refueling vehicles, machines and equipment  and	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>57</b> , <b>58</b> and <b>59</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix <b>1</b> ), by: Visual monitoring, photo documentation.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
		Guidelines for washing and cleaning of vehicles, machines and equipment and Prevention of leaks from vehicles, machines and equipment		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
32	Water and soil protection	Proceedings in the case of emission of petroleum derivatives	Contract area	The Contractor's Team	During the Contract implementation period – preventive on a regular basis, not less than once a week and each time in the event of circumstances covered by the condition	Control of compliance with the EMP condition in item 60 of Appendix 1 (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.  Control of the implementation of required procedures.  Control of the submission of documents to the Engineer.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month and each time in the event of circumstances covered by the condition	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
33	Acoustic climate protection  Reducing time of works to daytime and Reducing noise of vehicles, machines and equipment	Contract area	The Contractor's Team  The Engineer's	During the Contract implementation period - on an ongoing basis, not less than once per week  During the Contract implementation period - on an	Control of compliance with the EMP conditions in items <b>61</b> , <b>62</b> , <b>63</b> and <b>64</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix <b>1</b> ), by:  Visual monitoring, photo documentation.  Visual monitoring, photo documentation.	
		and  Reducing noise of pump sets  and  Control of noise level in acoustically protected areas		Team	ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.
34	protection, consumption of veh	Limiting the power consumption of vehicles, machines and equipment	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 65 of Appendix 1</b> (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
35	Air protection	Limiting air pollution with exhaust fumes and Limiting dusting from the	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>66 and 67 of Appendix 1</b> (descriptions for these items in the table in Appendix 1), by: Visual monitoring, photo documentation.
	construction site		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.	
36	Health and safety protection, Air protection	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 68 of Appendix 1</b> (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.	
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
37	Air protection	Ban to burn fires and burn down materials, waste, litter, etc.	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 69 of Appendix 1</b> (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities				
	к. REQUIREMENTS ON WASTE MANAGEMENT									
38	Water and soil protection	Development of a Waste Management Plan (WMP) and Guidelines for waste management and Guidelines for handling of hazardous waste	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 70, 71, 72, 73 and 74 of Appendix 1 (descriptions for these items in the table in Appendix 1), by:  Assessment of progress of work on the WMP and its compliance with the EMP requirements.  Control of submitting the WMP to the Engineer.  Visual monitoring, photo documentation.				
		and Guidelines for handling of domestic waste and Preventing illegal dumping of litter and waste		The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.  Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.				

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities				
	L. REQUIREMENTS ON HEALTH AND SAFETY PROTECTION									
39	39 Health and safety protection	Development of documents related to safety of people, property and the environment in the Contract area	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 75 of Appendix 1 (description for this item in table in Appendix 1), by:  Visual monitoring, photo documentation.  Control of the progress of work on the subject documents and their compliance with the EMP requirements.  Control of the submission of documents to the Engineer.				
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.				
40	Health and safety protection	Sapper recognition and supervision in the Contract area	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in <b>item 76 of Appendix 1</b> (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.				
						Control of the participation of required experts.				
						Control of the implementation of required procedures.				
						Control of the submission of documents to the Engineer.				

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Control of the participation of required experts.  Review of the documentation submitted by the Contractor to the Engineer.
41	Health and safety protection, Protection of tangible assets	Documentation and monitoring of the technical condition of buildings exposed to tremor and vibrations	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 77 of Appendix 1 (description for this item in table in Appendix 1), by: Visual monitoring, photo documentation.  Control of the submission of documents to the Engineer.
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.
42	Health and safety protection	afety guidelines on work safety	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>78 and 79 of Appendix 1</b> (descriptions for these items in the table in Appendix 1), by:  Visual monitoring, photo documentation.
	Ensuring hygienic conditions	The Engi Team	The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Visual monitoring, photo documentation.  Review of the documentation submitted by the Contractor to the Engineer.	

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities				
	м. REQUIREMENTS ON EXTRAORDINARY THREATS TO THE ENVIRONMENT									
43	Health and safety protection	Proceeding rules related to the flood risk and Guidelines on notifying of emergency and Guidelines for handling unexploded ordnance or misfires	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 80, 81 and 82 of Appendix 1 (descriptions for these items in the table in Appendix 1), by:  Control of the progress of work on the required documents and their compliance with the EMP requirements.  Control of the submission of documents to the Engineer.  Control of compliance with applicable procedures in the event of a flood.  Visual monitoring, photo documentation.  Control of the implementation of required procedures.  Control of the submission of documents to the Engineer.				
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.  Visual monitoring, photo documentation.				

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities					
	N. REQUIREMENTS ON PROTECTION OF CULTURAL HERITAGE										
44	Conservatio n of heritage	The opinion of the heritage conservator and Providing archaeological supervision and Guidelines on the conduct in the case of uncovering mobile monuments or archaeological sites	Contract area	The Contractor's Team	During implementation of the Contract (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items 83, 84 and 85 of Appendix 1 (descriptions for these items in the table in Appendix 1), by:  Verifying the observance of establishments made under the Conservator's permit.  Control of the progress of work on the required documents and their compliance with the EMP requirements.  Control of the submission of documents to the Engineer.  Control of compliance with applicable procedures.  Visual monitoring, photo documentation.  Control of the participation of required experts.					
				The Engineer's Team	During implementation of the Contract (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.  Visual monitoring, photo documentation.  Control of the participation of required experts.					

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities				
	o. REQUIREMENTS ON THE CONTRACTOR'S STAFF ENGAGED IN THE IMPLEMENTATION OF THE EMP									
45	Implementat ion and reporting of the EMP	Training of the Contractor's staff in the scope of the EMP implementation	Contract area	The Contractor's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 86 of Appendix 1 (description for this item in table in Appendix 1), by: Checking the completion of a training by all required persons currently working on the Contract and forwarding the findings to the Site Manager.				
				The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Review of information on the training of the Contractor's staff submitted to the Engineer together with the Contractor's monthly reports.				
						Random controls on the knowledge of the terms and conditions of the EMP by the persons currently working on the Contract in the Contractor's team.				

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
46	Implementat ion and reporting of the EMP	Appointment of the EMP coordinator in the Contractor's team	Contract area	The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per week	Control of compliance with the EMP conditions in items <b>87</b> , <b>88</b> , <b>89</b> and <b>90</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix <b>1</b> ), by:
		Providing of a team of environmental experts and Providing a team of archaeological experts				Control of the participation of environmental experts in the implementation of ongoing mitigation and monitoring measures (in the scope relevant to the current stage of works) and forwarding the findings to the Site Manager.
		and				Review of the documentation submitted by the Contractor to the Engineer.
		Providing of a sapper supervision team		The Engineer's Team	During the Contract implementation period - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.  Ongoing inspections of the fulfilment of current duties by environmental experts in the Contractor's team.
47	Implementat ion and reporting of the EMP	Discussing the implementation of the EMP during working meetings and Site Meetings	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 91 of Appendix 1 (description for this item in table in Appendix 1), by:  Control of the meetings and discussing issues related to the implementation of the EMP on the Site Meetings. Forwarding of findings to the Site Manager.

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities		
				The Engineer's Team	prior to the commencement of works - until the	Control of the meetings and discussing issues related to the implementation of the EMP on the Site Meetings.		
					once per month	Review of the documentation submitted by the Contractor to the Engineer.		
	P. REQUIREMENTS ON EMP REPORTING							
48	Implementat ion and reporting of the EMP	Reporting the implementation status of the EMP	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per week	Control of compliance with the EMP condition in item 92 of Appendix 1 (description for this item in table in Appendix 1), by: Control of the progress of development and submission of required reports and information to the Engineer.  Quality control of submitted reports and information.		
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works - until the condition is met) - on an ongoing basis, not less than once per month	Review of the documentation submitted by the Contractor to the Engineer.		

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities		
			Q.	REQUIREMEN	ITS AFTER THE COMPLETION OF WORKS			
49	Protection of soils and earth surface, Environment al protection	reinstatement of the area to the initial state	Contract area	The Contractor's Team	During the Contract implementation period (each time at the stage of checking and acceptance of construction works - until the condition is met) - on an ongoing basis, not less than once a week	Control of compliance with the EMP conditions in items <b>93</b> , <b>94</b> and <b>95</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix <b>1</b> ), by:  Visual monitoring, photo documentation.		
		mowing the grass and Management, maintenance, repairs of roads		The Engineer's Team	During the Contract implementation period (each time at the stage of checking and acceptance of construction works - until the condition is met) - on an ongoing basis, not less than once a month	Visual monitoring, photo documentation. Review of the documentation submitted by the Contractor to the Engineer.		
50	Protection of waters	Requirements for the operation of rainwater sewage system	Contract rainwate r sewage system	Road manager / Authorized service provider	After the construction of a rainwater sewage system, at least once every six months.	Control of compliance with the EMP condition in <b>item 96 of Appendix 1</b> (description for this item in table in Appendix 1), by:  Visual monitoring.		
	R. DETAILED REQUIREMENTS OF THE WORLD BANK'S ES POLICIES							
51	ES issues	ES Code of Conduct	Contract area	The Contractor's Team	During implementation of the Contract; constant monitoring.	Control of compliance with the EMP condition in <b>item 97 of Appendix 1</b> (description for this item in table in Appendix 1), by:		
						Site visit, verification of the Contractor's documentation.		

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
				The Engineer's Team	During implementation of the Contract; constant monitoring	Review of the documentation submitted by the Contractor to the Engineer.
52	ES issues	Ensuring accident-free working conditions  And  Provision of H&S Expert in the Contractor's team  And  Educational actions related to H&S rules and regulations	Contract area	The Contractor's Team	During implementation of the Contract; constant monitoring.	Control of compliance with the EMP conditions in items <b>98</b> , <b>99</b> and <b>100</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix 1), by:  Site visit, controlling the acknowledgement of H&S rules and regulations, verification of the Contractor's documentation.  Ongoing inspection for fulfilling current liabilities by the experts of the Contractor's team.
				The Engineer's Team	During implementation of the Contract; constant monitoring	Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
53	ES issues	Prevention of sexual harassment and mobbing, reporting of sexual harassment and mobbing	Contract area	The Contractor's Team	During implementation of the Contract; constant monitoring.	Control of compliance with the EMP conditions in items <b>101</b> and <b>102</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix 1), by:
		and  Educational actions to prevent cases of sexual				Site visit, controlling the knowledge of preventing cases of sexual harassment and mobbing, verification of the Contractor's documentation
		harassment and/or mobbing				Inspecting the compliance of Contractor's actions with substantial conditions determined under the contract.
				The Engineer's Team	During implementation of the Contract; constant monitoring	Review of the documentation submitted by the Contractor to the Engineer.
54	ES issues	Assurance of lawful conditions of work and payment for the personnel	Contract area	The Contractor's Team	During implementation of the Contract; constant monitoring.	Control of compliance with the EMP conditions in items <b>103</b> , <b>104</b> and <b>105</b> of Appendix <b>1</b> (descriptions for these items in the table in Appendix <b>1</b> ), by:
		and  Providing the possibility  of submitting complaints  and claims by employees				Site visit, controlling the knowledge of filing claims in reference to conditions of work and payment, verification of the Contractor's documentation
		referring to the conditions of work and payment				Inspecting the compliance of Contractor's actions with substantial conditions determined under the Contract.

No.	Issue	Mitigation Measure	Place of monitori	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
		and  Development and implementation of procedures related to the ongoing provision of information on ES issues		The Engineer's Team	During implementation of the Contract; constant monitoring	Review of the documentation submitted by the Contractor to the Engineer.
55	ES issues  Guidelines of prevention of HIV-AIDS, diseases caused by coronaviruses	f HIV-AIDS, diseases area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works and during works) - on an ongoing basis, not less than once per three months	Control of compliance with the EMP condition in <b>item 106 of Appendix 1</b> (description for this item in table in Appendix 1), by: Inspecting the compliance of Contractor's actions with substantial conditions determined under the Contract.	
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works and during works) - on an ongoing basis, not less than once per three months.	Review of the documentation submitted by the Contractor to the Engineer.

No.	Issue	Mitigation Measure	Place of monitori ng	Entity responsible	Timing and frequency of monitoring	Manner of monitoring activities
S.	GUIDELINE	S FOR DEALING WITH TH	iE SITUAT	ION IN THE EVE	ENT OF AN EPIDEMIC OR STATE OF EPIDEMIC RISI	C DURING THE EXECUTION OF WORKS
56	Protection of human health and safety	Guidelines for dealing with the situation of an epidemic or state of epidemic risk	Contract area	The Contractor's Team	During the Contract implementation period (inter alia prior to the commencement of works and during works) - on an ongoing basis, not less than once per months	Control of compliance with the EMP condition in <b>item 107 of Appendix 1</b> (description for this item in table in Appendix 1), by: Inspecting the compliance of Contractor's actions with substantial conditions determined under the Contract.
				The Engineer's Team	During the Contract implementation period (inter alia prior to the commencement of works and during works) - on an ongoing basis, not less than once per month.	Review of the documentation submitted by the Contractor to the Engineer.