

FINAL REPORT
ON IMPLEMENTATION OF MEASURES
DETERMINED IN THE ENVIRONMENTAL MANAGEMENT PLAN
for the Contract 3A.4

Odra-Vistula Flood Management Project

OVFMP Subcomponent	3A Flood Protection of Upper Vistula Towns and Cracow
Contract Task	3A.4 Extension of a section of the right embankment downstream of the Dąbie Barrage, including development of a flood gate in the area of a repair yard
Investor / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
Project Implementation Office (PIO)	Project Implementation Office in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
Contractor of Works	SKANSKA S.A. 173. Solidarności Avenue, 00-877 Warsaw, Poland
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INTRODUCTION

This paper, as developed by the Contract Engineer within the framework of Consulting Services Contract no. 5.2 *Design and Construction Supervision. Project Management, Technical Assistance and Training, Technical Support for the Project and Strengthening of PIU's Institutional Capacity*, presents a final report on implementation of measures determined in the Environmental Management Plan (EMP) for Works Contract 3A.4 *Extension of a section of the right embankment downstream of the Dąbie Barrage, including development of a flood gate in the area of a repair yard*.

The report covers the following period:

- from the Commencement Date for the Works under Contract 3A.4 (i.e. **from November 26, 2021**);
- to the completion date for the works considered as essential, as results from the Time for Completion for the aforementioned Contract (i.e. **to October 4, 2023**).

The following was presented for the Contract:

- basic information on Contract 3A.4 (including e.g. the scope of works and basic deadlines for the Contract);
- basic information on the Environmental Management Plan for Contract 3A.4;
- organizational system for supervision over implementation of the EMP;
- status of implementation for mitigation measures listed in Appendix 1 to the EMP;
- status of implementation for monitoring measures listed in Appendix 2 to the EMP;
- description of other measures and events associated with the ES;
- summary.

1 BASIC INFORMATION ON CONTRACT 3A.4

Works Contract 3A.4 *Extension of a section of the right embankment downstream of the Dąbie Barrage, including development of a flood gate in the area of a repair yard* was implemented under *Odra-Vistula Flood Management Project* (OVFM Project), as a part of Component 3 *Flood Protection of the Upper Vistula* and Subcomponent 3A *Flood Protection of Upper Vistula Towns and Cracow*.

An agreement with the Contractor for Contract 3A.4 was signed on August 5, 2021. The works were commenced on November 26, 2021. The Time for Completion (685 days from the date of handing over the construction site) expired on October 4, 2023.

Basic information about the Contract is presented below.

Name of the Contract:

Extension of a section of the right embankment downstream of the Dąbie Barrage, including development of a flood gate in the area of a repair yard.

Contractor:

SKANSKA S.A.

173. Solidarności Avenue, 00-877 Warsaw, Poland.

Scope of Works:

Contract 3A.4 concerns:

- (i) redevelopment of the right bank flood embankment of the Vistula River in Cracow upstream and downstream of the Płaszów port channel (with a total length of approx. 290 m);
- (ii) construction of a flood gate on the inlet channel to the Płaszów port;
- (iii) construction of the infrastructure necessary to power the flood gate and to provide control and communications.

Basic dates for the Contract:

Agreement signing date:	August 5, 2021
Date of handing over the construction site:	November 18, 2021
Commencement Date for the Works:	November 26, 2021
Time for Completion:	685 days from the date of handing over the construction site
Signing date for Annex no. 1:	October 29, 2021
Signing date for Annex no. 2:	August 5, 2022
Signing date for Annex no. 3:	December 30, 2022
Signing date for Annex no. 4:	May 25, 2023
Signing date for Annex no. 5:	May 31, 2023
Signing date for Annex no. 6:	August 11, 2023
Signing date for Annex no. 7:	October 19, 2023
Signing date for Annex no. 8:	December 6, 2023
Signing date for Annex no. 9:	February 1, 2024
Signing date for Annex no. 10:	February 2, 2024
Completion Date for the Works (according to the Time for Completion):	October 4, 2023
Date of signing the final acceptance certificate:	February 14, 2024

2 BASIC INFORMATION ON THE EMP FOR CONTRACT 3A.4

The Environmental Management Plan for Contract 3A.4 was developed in September 2020 (final version). On October 19, 2020 the World Bank issued “No Objection” acceptance approving the Environmental Management Plan as one of documents for the bidding procedure applied to select the Contractor of construction works under the Contract. It is a document systematizing actions undertaken within the framework of the Contract and obliging all units participating in implementation of the Contract to observe the provisions given therein. A detailed description of contract implementation conditions referring to the environmental management has been developed in the form of appendices to the EMP – Appendix 1 containing the *Mitigation Measures Plan* (see description in chapter 2.1, below), and Appendix 2 containing the *Monitoring Measures Plan* (see description in chapter 2.2, below).

2.1 MITIGATION MEASURES DETERMINED IN APPENDIX 1 TO THE EMP

Appendix 1 to the EMP for Contract 3A.4 contains 99 mitigation measures, which are to prevent and limit adverse impact of the contract on the environment. Those measures result from contents of the decisions on environmental conditions, as issued for the Contract in question (given in Appendix 4 to the EMP), as well as from procedural requirements of the World Bank and additional conditions determined during the works on development of the EMP. Table of mitigation measures given in Appendix 1 to the EMP described particular measures and determined locations of their implementation, as well as the units responsible for their implementation.

Mitigation measures listed in Appendix 1 to the EMP belong to the following 19 categories:

- a) requirements on schedule of works and implementation of the EMP
(items no. 1-2 under Appendix 1 to the EMP);
- b) requirements on purchase and compensation
(items no. 3-4 under Appendix 1 to the EMP);
- c) requirements on access roads access to the Contract area
(items no. 5-12 under Appendix 1 to the EMP);
- d) requirements on location of site facilities and service roads and yards
(items no. 13-15 under Appendix 1 to the EMP);
- e) requirements on removal of trees and shrubs
(items no. 16-17 under Appendix 1 to the EMP);
- f) requirements on protection of trees and shrubs not intended for removal
(items no. 18-24 under Appendix 1 to the EMP);
- g) requirements on securing the protected environmental resources
(items no. 25-38 under Appendix 1 to the EMP);
- h) requirements on ground management (including top-soil)
(items no. 39-42 under Appendix 1 to the EMP);

- i) requirements on land reclamation after completion of works (items no. 43-44 under Appendix 1 to the EMP);
- j) requirements on prevention of pollution emission to the ground and water environment (items no. 45-56 under Appendix 1 to the EMP);
- k) requirements on prevention of pollution emission to the air (items no. 57-59 under Appendix 1 to the EMP);
- l) requirements on prevention of noise emission (items no. 60-63 under Appendix 1 to the EMP);
- m) requirements on waste management (items no. 64-68 under Appendix 1 to the EMP);
- n) requirements on protection of health and safety of people (items no. 69-75 under Appendix 1 to the EMP);
- o) requirements on exceptional hazards to the environment (items no. 76-79 under Appendix 1 to the EMP);
- p) requirements on the protection of cultural heritage (items no. 80-81 under Appendix 1 to the EMP);
- q) requirements on the Contractor's personnel implementing the EMP (items no. 82-86 under Appendix 1 to the EMP);
- r) requirements on implementation reports for the EMP (items no. 87-88 under Appendix 1 to the EMP);
- s) remaining ES requirements (items no. 89-99 under Appendix 1 to the EMP).

Contents of individual mitigation measures given in Appendix 1 to the EMP have been quoted in the *Check List* forming *Appendix no. 1* to this report.

2.2 MONITORING MEASURES DETERMINED IN APPENDIX 2 TO THE EMP

Appendix 2 to the EMP for Contract 3A.4 contains a set of 99 monitoring measures, which are to monitor implementation of mitigation measures described in Appendix 1. A tabulated summary of monitoring measures, as given in Appendix 2 to the EMP, contains the same breakdown into categories as in case of the mitigation measures. The table of monitoring measures determines e.g. location, method, time, and frequency of monitoring, as well as the units responsible for its implementation.

3 SYSTEM OF SUPERVISION OVER IMPLEMENTATION OF MEASURES DETERMINED IN THE EMP FOR CONTRACT 3A.4

Supervision over implementation of mitigation measures and monitoring measures determined in the EMP for Contract 3A.4 was performed on the level of all of the organizational units participating in the Contract implementation, i.e. Contractors, Engineer, Project Implementation Office (PIO), and Project Coordination Unit (PCU). Information on the scope of performance for individual units is presented below.

3.1 CONTRACTOR

A person directly responsible for implementation of measures determined in the EMP on the Contractor's side was the Site Manager. In accordance with item no. 82 in Appendix 1 to the EMP, in order to provide support to the Site Manager in the implementation of the EMP, the EMP Coordinator has been appointed in the Contractor's team. The task of that person was an ongoing cooperation with the Site Manager, with the remaining members of the Contractor's personnel, and with the Environmental Management Expert of the Engineer's team in securing implementation of the EMP conditions, as well as provision of ongoing reporting in that range. Furthermore, in accordance with items no. 83, 84 and 85 under Appendix 1 to the EMP, the Contractor assured participation of expert teams of environmental, archaeological and sapper supervision, in the scope compliant with the EMP requirements.

After completing each month, the EMP Coordinator summarized the current status of implementation of individual EMP conditions (in the form of a checklist). Information on the implementation of the EMP was provided to the Environmental Management Expert of the Engineer's team, along with appropriate attachments (including notes, opinions, environmental supervision reports, etc.).

3.2 ENGINEER

Direct supervision over implementation of the EMP conditions by the Engineer's team was done by the Environmental Management Expert cooperating in that range with the Resident Engineer, supervising inspectors, and other members of the Engineer's team providing investor's supervision over implementation of the contract. The Environmental Management Expert was in an ongoing contact with the Site Manager and with the EMP Coordinator of the Contractor's team, while establishing the range of conditions to be necessarily met on a given stage of works, supervising the implementation status for particular EMP conditions, participating in solving ongoing issues, and performing inspections on work sites. After completing each and every reporting period (month and quarter), the Environmental Management Expert was verifying environmental documentation of the Contractor and developing reports, which were subsequently handed over to the Project Implementation Office.

3.3 PROJECT IMPLEMENTATION OFFICE (PIO)

Direct supervision over implementation of the EMP conditions by the Project Implementation Office (PIO) was done by the Environmental Specialist, who cooperated in that range with the PIO Manager, with other members of the PIO team, as well as with other organization units of the RZGW in Cracow. The Environmental Specialist and the PIO Manager were in a direct contact with the Environmental Management Expert of the Engineer's team, while supervising the implementation status for particular EMP conditions and participating in solving of the ongoing issues. After completing each and every reporting period (month and quarter), the Environmental Specialist and the PIO Manager were verifying environmental documentation of the Contract, and subsequently handed it over to the Project Coordination Unit (in the scope compliant with the EMP conditions).

3.4 ODR-VISTULA FLOOD MANAGEMENT PROJECT COORDINATION UNIT (PCU)

Direct supervision over implementation of the EMP conditions by the Project Coordination Unit was done by the Environmental Management Expert, who cooperated in that range with other members of the PCU team. The expert was in a direct contact with the PIO Manager and with the Environmental Specialist of the PIO team. He was also cooperating with persons responsible for implementation of the EMP on the side of remaining organizational units of the investment process, i.e. the Environmental Management Expert of the Engineer's team, as well as the Site Manager and the EMP Coordinator of the Contractor's team. The Environmental Management Expert was supervising the implementation status for particular EMP conditions, while participating in solving of ongoing issues, and participating in site inspections. After completing each quarterly reporting period, he was verifying environmental documentation handed over by the PIO, and was developing contents for PCU reports, which were subsequently submitted to the World Bank.

4 IMPLEMENTATION STATUS FOR MITIGATION MEASURES UNDER APPENDIX 1 TO THE EMP

In accordance with contents of Appendix 1 to the EMP for Contract 3A.4, units responsible for implementation of mitigation measures determined under Appendix 1 to the EMP are as follows: **the Contractor (98 measures:** items no. 1, 2, 4-99 under Appendix 1 to the EMP), **Engineer (3 measures:** items no. 3, 4, 97 under Appendix 1 to the EMP) and **the Investor (3 measures:** items no. 3, 4, 44 under Appendix 1 to the EMP). In total, the EMP for Contract 3A.4 envisages implementation of 99 mitigation measures¹, including at least 92 measures to be implemented within the reporting period (in case of remaining 7 measures it was not necessary to implement them – see: below).

4.1 CONTRACTOR'S MEASURES

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) Within the reporting period the Contractor implemented 91 (91.9%) mitigation measures, including:
 - 79 (79.8%) measures were implemented in the scope required within the reporting period (items no. 1, 4, 5, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 21, 24, 25, 27, 28, 29, 31, 32, 33, 35, 36, 37, 38, 40, 41, 42, 43, 44, 46, 47, 48, 49, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 under Appendix 1 to the EMP);
 - in case of 12 (12.1%) measures issues and / or inconsistencies associated with their implementation – as discussed in chapter 4.4 – were identified (items no. 2, 14, 18, 19, 20, 26, 39, 45, 50, 64, 69, 89 under Appendix 1 to the EMP).
- b) Within the reporting period the Contractor was not implementing 7 (7.1%) mitigation measures, including:
 - implementation of 7 (7.1%) measures was not necessary throughout the entire period included in this report (items no. 6, 22, 23, 30, 34, 56, 79 under Appendix 1 to the EMP);
 - cases of missing implementation for measures required within the reporting period were not identified.

Mitigation measures were implemented by the Contractor with the participation of, among others, Site Manager, EMP Coordinator, environmental supervision team, archaeological supervision team, sapper supervision team, and H&S specialist.

Mitigation measures were agreed with (if required by the conditions of Contract and/or the EMP) and supervised by the Engineer's team (with participation of the following persons:

¹ Contents of particular mitigation measures given in Appendix 1 to the EMP have been quoted in the *Check List* forming *Appendix no. 1* to this report.

Senior Environmental Management Expert, Senior Real Estate Specialist, senior supporting experts – Supervising Inspectors, key expert – Resident Engineer, and Project Manager), and by the Investor’s team (with participation of the following persons: Environmental Specialist, Re-settlement Specialists, and PIO Manager).

4.2 ENGINEER’S MEASURES

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) Within the reporting period the Engineer was implementing 3 (3.0%) mitigation measures, including:
 - 3 (3.0%) measures were implemented in the scope required within the reporting period (items no. 3, 4, 97 under Appendix 1 to the EMP).
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) Within the reporting period there was no case of missing implementation of mitigation measures assigned to the Engineer.

Mitigation measures were implemented by the Engineer at participation of selected specialists of the Engineer’s team (composition of the team has been informed in chapter 4.1).

4.3 INVESTOR’S MEASURES

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) Within the reporting period the Investor was implementing 2 (2.0%) mitigation measure, including:
 - 2 (2.0%) measures were implemented in the scope required within the reporting period (item no. 3, 4 under Appendix 1 to the EMP).
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) Within the reporting period the Investor was not implementing 1 (1.0%) mitigation measure, including:
 - implementation of 1 (1.0%) measure did not concern the current reporting period (item no. 44 under Appendix 1 to the EMP);
 - cases of missing implementation for measures required within the reporting period were not identified.

Mitigation measures were implemented by the Investor at participation of selected members of the PIO’s team (composition of the team has been informed in chapter 4.1).

4.4 ISSUES REFERRING TO IMPLEMENTATION OF MITIGATION MEASURES LISTED IN APPENDIX 1 TO THE EMP

According to information provided in monthly reports and in quarterly reports on implementation of measures determined in the EMP, the following issues and / or inconsistencies associated with implementation of 12 mitigation measures from Appendix 1 to the EMP for Contract 3A.4 (in order compliant with numbers of items under Appendix 1 to the EMP) were identified:

1) Items no. 14, 45, 50, and 2, 89 under Appendix 1 to the EMP

Location of material yards and soil storage places in an inter-embankment area of Vistula [from the 4th quarter of 2021 to the 4th quarter of 2023]:

In December 2021, the Contractor submitted the planned locations of material yards and soil storage places for the Engineer's approval. Due to the spatial limitations of the construction site, material yards and soil storage areas had to be designated in an inter-embankment area of Vistula, therefore contrary to the conditions in item no. 14c, 45 and 50 under Appendix 1 to the EMP. The Contractor presented the opinion of environmental supervision regarding the above-mentioned elements of the construction site. As follows from the presented opinion, while ensuring the implementation of other mitigation measures regarding prevention of pollution of the soil and water environment specified in the EMP, the location of material yards and soil storage places in areas proposed by the Contractor does not pose a threat to the soil and water environment nor to protected natural environment resources. It should also be emphasized that the location of material yards and earth storage places in an inter-embankment area does not contradict the conditions of the applicable environmental decision for Contract 3A.4. Taking into account the above circumstances, the Engineer accepted the proposed locations and obliged the Contractor to monitor the above-mentioned material yards and soil storage places on an ongoing basis, and if possible contamination of the soil and water environment is identified - to immediately implement appropriate remedial measures, in a manner agreed with the Engineer. During the Contract implementation period ongoing monitoring of material yards and soil storage places was carried out, and no cases of negative environmental impact resulting from the operation of the above-mentioned construction site elements were detected.

2) Items no. 18, 26, and 89 under Appendix 1 to the EMP

Cases of damage to trees not intended for removal at the stage of felling works [in the 4th quarter of 2021]:

In December 2021, during the felling works, cases of damage to trees not intended for removal were found (some of the trees being cut down fell and hit neighboring trees planned to be left, causing minor damage to their branches or bark). The contractor, in consultation with the environmental supervision, carried out appropriate remedial actions, appropriate to the scale and nature of the damage. In the following months, the Contractor's environmental supervision carried out ongoing inspections of the above-mentioned places and in no case did it detect any threat to the health of trees.

- 3) Items no. 18, 26, and 89 under Appendix 1 to the EMP
Cases of location storage places of building materials in the vicinity of trees and bushes [from the 1st quarter of 2022 to the 4th quarter of 2023]:
In the period from the first quarter of 2022 to the fourth quarter of 2023, due to the spatial limitations of the construction site, cases of failure to maintain the required distance from the boundary of the tree and shrub crown projection were found (including the location of storage places of building materials). The Contractor's environmental supervision carried out ongoing inspections of the above-mentioned places and in no case did he find that the described situations posed a threat to the health of trees and shrubs.
- 4) Items no. 19, 20, 26, and 89 under Appendix 1 to the EMP
Cases of failure to secure trees and shrubs not intended for felling [from the 1st quarter of 2022 to the 2nd quarter of 2022]:
In the first and second quarter of 2022, cases of lack or insufficient protection of trees and shrubs growing in places currently exposed to damage were found. The Contractor supplemented the above-mentioned protection on an ongoing basis and ensured their maintenance until the end of the period required in the EMP.
- 5) Items no. 39, 64, 69, and 2, 89 under Appendix 1 to the EMP
Delays in editing and agreeing of contract documents required in the EMP [from the 4th quarter of 2021 to the 1st quarter of 2022]:
In the fourth quarter of 2021, the Contractor did not complete the editing and/or did not obtain the Engineer's approval for some of the documents referred to in item no. 39, 64, and 69 under Appendix 1 to the EMP. Activities related to the development and approval of the documents in question were completed in the first quarter of 2022.

5 IMPLEMENTATION STATUS FOR MONITORING MEASURES UNDER APPENDIX 2 TO THE EMP

In accordance with contents of Appendix 2 to the EMP for Contract 3A.4, units responsible for implementation of monitoring measures determined under Appendix 2 to the EMP are as follows: **the Contractor (98 measures:** items 1, 2, 4-99 under Appendix 2 to the EMP), **the Engineer (99 measures:** items 1-99 under Appendix 2 to the EMP), and **the Investor (1 measure:** item 44 under Appendix 2 to the EMP). In total, the EMP for Contract 3A.4 envisages implementation of 99 monitoring measures¹, and all of the measures shall be implemented within the reporting period.

5.1 CONTRACTOR'S MEASURES

Within the reporting period the Contractor was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Engineer and of the Investor.

- a) Within the reporting period the Contractor was implementing 98 (99.0%) monitoring measures, including:
 - 98 (99.0%) measures were implemented in the scope required within the reporting period (items no. 1, 2, 4-99 under Appendix 2 to the EMP);
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) Cases of missing implementation for monitoring measures assigned to the Contractor within the reporting period were not identified.

Monitoring measures were implemented by the Contractor at participation of the Contractor's personnel listed in chapter 4.1.

¹ Those measures referred to the implementation monitoring for particular mitigation measures given in Appendix 1 to the EMP, contents of which have been quoted in the *Check List* forming *Appendix no. 1* to this report.

5.2 ENGINEER'S MEASURES

Within the reporting period the Engineer was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's and Investor's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Contractor and of the Investor.

- a) Within the reporting period the Engineer was implementing 99 (100%) monitoring measures, including:
 - 99 (100%) measures were implemented in the scope required within the reporting period (items no. 1-99 under Appendix 2 to the EMP);
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) Cases of missing implementation for monitoring measures assigned to the Engineer within the reporting period were not identified.

Furthermore, within the reporting period the Engineer was also supervising implementation of 98 monitoring measures assigned, in accordance with Appendix 2 to the EMP, to the Contractor.

Monitoring measures and supervising measures in the range referring to the EMP were implemented by the Engineer at participation of selected experts of the Engineer's team (composition of the team has been given in chapter 4.1).

5.3 INVESTOR'S MEASURES

Within the reporting period the Investor did not carry out measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP (the only monitoring measure assigned to the Investor is item 44 in Appendix 2 to the EMP, provided for implementation by the Investor only after the end of the Contract implementation period). The non-implementation of the monitoring measures did not constitute a departure from the conditions determined under the EMP.

Furthermore, within the reporting period the Investor was supervising implementation of 99 monitoring measures assigned, in accordance with Appendix 2 to the EMP, to the Contractor and to the Engineer.

Above-mentioned activities in the range referring to the EMP were implemented by the Investor at participation of members of the PIO's team listed in chapter 4.1.

5.4 ISSUES REFERRING TO IMPLEMENTATION OF MONITORING MEASURES LISTED IN APPENDIX 2 TO THE EMP

In accordance with information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP for Contract 3A.4, within the reporting period no issues nor inconsistencies with implementation of the monitoring measures listed in Appendix 2 to the EMP were identified.

6 OTHER ACTIONS AND EVENTS RELATED TO THE ENVIRONMENT, LOCAL SOCIETY, HEALTH AND SAFETY

6.1 ACTIONS OF THE CONTRACTOR

Within the reporting period the Contractor was carrying out works within the framework of Contract 3A.4, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Contractor.

Furthermore, within the reporting period the Contractor was implementing e.g. the following other measures referring to Contract 3A.4 and related to the environment, local society, health and safety:

- due to a threat of spreading coronavirus infections causing COVID-19 disease, from the fourth quarter of 2021 to the first quarter of 2022 the Contractor was providing the Engineer with weekly reports on situation referring to that threat for Contract 3A.4.

6.2 ACTIONS OF THE ENGINEER

Within the reporting period the Engineer was supervising works carried out within the framework of Contract 3A.4, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Engineer.

Furthermore, within the reporting period the Engineer was implementing e.g. the following other measures referring to Contract 3A.4 and related to the environment, local society, health and safety:

- due to a threat of spreading coronavirus infections causing COVID-19 disease, from the fourth quarter of 2021 to the first quarter of 2022 the Engineer was monitoring the situation on Contract 3A.4, due to the epidemic threat, and was providing the Investor with subsequent reports referring to the aforementioned threat.

6.3 ACTIONS OF THE INVESTOR

Within the reporting period the Investor was carrying out its activities associated with implementation of Contract 3A.4, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Investor, and was supervising the measures implemented by the Contractor and by the Engineer.

6.4 OTHER ACTIONS

Not applicable to the present reporting period.

6.5 EXCEPTIONAL EVENTS, THREATS AND CATASTROPHES

Not applicable to the present reporting period.

6.6 ACCIDENTS

6.6.1 Accidents with participation of Contractor's employees

In the second quarter of 2022, a potentially accidental event involving an employee of a sub-contracting company took place at the construction site of Contract 3A.4. On June 21, 2022, during concrete works in the main chamber of the flood gate, one of the workers suddenly fell to the ground and suffered convulsions. The employee was immediately provided with first aid, securing him in the recovery position, and an ambulance was called. After a while, the convulsions stopped. The ambulance service took the employee to the Hospital Emergency Department in Cracow to perform required tests. As a result of the tests, the diagnosis was established: convulsive seizure, with no basis for the diagnosis of epilepsy, and a referral to a neurology clinic was made for consultation and possible further diagnostic tests. In the evening, the employee was discharged from the Emergency Department without the need to take sick leave – the employee returned to work the next day. No violations were found in the implementation of obligations related to compliance with occupational health and safety regulations on the construction site. The Contractor informed the Engineer about the above-mentioned event on June 21, 2022, and on June 22, 2022, he sent a written health and safety note regarding the event. The Engineer immediately forwarded the received information to the Investor, in accordance with applicable contract procedures. The Contractor's letter with information about the above-mentioned event is presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for June 2022.

6.6.2 Accidents with participation of other people authorized to access the site

No accidents involving other people authorized to access the Contract implementation area were recorded within the reporting period.

6.6.3 Accidents with participation of outsiders

No accidents involving outsiders were recorded within the reporting period.

6.7 SECURING CONDITIONS OF PAYMENT AND WORK FOR THE PERSONNEL

Within the reporting period the Contractor was securing proper conditions of payment and work for the personnel, in accordance with binding provisions of the labour law in Poland.

6.8 PREVENTING CASES OF SEXUAL HARASSMENT AND MOBBING

No events associated with cases of sexual harassment and mobbing were recorded within the reporting period.

7 SUMMARY

This report presents a summary on implementation of the measures determined in the Environmental Management Plan (EMP) for Works Contract 3A.4 *Extension of a section of the right embankment downstream of the Dąbie Barrage, including development of a flood gate in the area of a repair yard* within the framework of the *Odra-Vistula Flood Management Project (OVFMP)*.

The report refers to the measures implemented in the following period:

- from the Commencement Date for the Works under Contract 3A.4 (i.e. **from November 26, 2021**);
- to the completion date for the works considered as essential, as results from the Time for Completion for the aforementioned Contract (i.e. **to October 4, 2023**).

Within the reporting period the Contractor was carrying out the works in the range given in the Contract 3A.4 (see: description in chapter 1), including e.g. implementation of 91 mitigation measures determined in the EMP (see: description in chapter 4.1), monitoring of implementation for all of the 98 mitigation measures determined in the EMP (see: description in chapter 5.1), and participation in other events referring to the environment, local society, and health and safety (as listed in chapter 6.1).

Within the reporting period the Engineer was supervising the works in progress within the framework of Contract 3A.4, including e.g. implementation of the measures determined in the Environmental Management Plan in the range assigned to the Engineer (see: description in chapter 4.2), monitoring of the implementation status for all 99 mitigation measures determined in the EMP (see: description in chapter 5.2), and participation in other events referring to the environment, local society, and health and safety (as listed in chapter 6.2).

Within the reporting period the Investor was implementing measures assigned to it in the range of Contract 3A.4 implementation, including e.g. implementation of particular measures determined in the Environmental Management Plan in the range assigned to the Investor (see: description in chapter 4.3) and supervision over actions of the Contractor and of the Engineer.

As a result of the monitoring and / or supervisory measures implemented by the Contractor, by the Engineer, and by the Investor, it was identified within the reporting period that:

- a) 92 out of 99 mitigation measures listed in Appendix 1 to the EMP were implemented, including:
 - issues with implementation were not identified in case of 80 measures;
 - issues and / or inconsistencies associated with implementation were identified in case of 12 measures, described in chapter 4.4 (in no case did they cause significant negative impacts on the environment).
- b) 7 out of 99 mitigation measures listed in Appendix 1 to the EMP were not implemented, including:

- implementation of 7 measures was not necessary throughout the entire reporting period.
- c) 99 out of 99 monitoring measures listed in Appendix 2 to the EMP were implemented, including the following:
- issues and / or inconsistencies associated with implementation were not identified in case of any of the measures.

The Check List referring to implementation of the mitigation measures and of the monitoring measures listed in Appendix 1 and in Appendix 2 to the EMP, respectively, within the reporting period, was presented in Appendix no. 1 to this *Report*.

8 SOURCE MATERIALS

1. *Environmental Management Plan for Contract 3A.4*
Extension of a section of the right embankment downstream of the Dąbie Barrage,
including development of a flood gate in the area of a repair yard.
State Water Holding Polish Waters, Regional Water Management Authority in Cracow.
Cracow, September 2020.
2. *Progress Reports* provided by the Contractor for Contract 3A.4
in subsequent months of the reporting period.
3. *Monthly Reports and Quarterly Reports on EMP Implementation* for Contract 3A.4,
as provided by the Engineer in subsequent months / quarters of the reporting period
(developed within the framework of Consulting Services Contract no. 5.2 *Design and*
Construction Supervision. Project Management, Technical Assistance and Training,
Technical Support for the Project and Strengthening of PIU's Institutional Capacity).

9 LIST OF APPENDICES

Appendix no. 1. Check List for implementation of the measures listed in Appendix 1 and 2 to the EMP for Contract 3A.4.

Appendix no. 2. Photo documentation.