

Ref. nr.	Subject	Question	Answer
1	ESPD	It seems that Page 1 and 2 as well as on Page 6 of the Annex 1 ESPD form the input of the Contracting Authority (RVO) are missing. Can you clarify or indicate what needs to be filled in on the open items on these pages.	This has been changed. A revised ESPD will be uploaded on TenderNed.
2	Annex 6 I - Contract- F	Section 2.4 - Formation and Duration - Penalties: Can you please include the following: Penalties are the sole and exclusive remedies for delays for the Contracting Authority under this Contract.	This is not agreed. The Contracting Authority wishes to keep the option open to claim damages in case of attributable failure by the Contractor to discharge the obligations under the Contract, also in the specific case of delays which can be attributed to the Contractor.
3	Annex 6 I - Contract- F	Section 2.4 - Formation and Duration - Penalties Please delete "the right to damages" The penalties should be the sole remedy for delays and Contractor should not be liable for additional damages due to the delays. "	Not agreed. Please refer to the answer to question no.2
4	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODIA 2018 - Article 4.1 - Assessment and acceptance Please change as follows: If it decides that the results are satisfactory in accordance with the requirements of the Contract, it will notify the Contractor that they have been accepted.	Agreed, the article will be changed as follows: If the Contracting Authority decides that the results are satisfactory in accordance with the requirements of the Contract, Contracting Authority will notify Contractor that they have been accepted.
5	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODIA 2018 - Article 4.2 - Assessment and acceptance Please change as follows: If the results of the Services are not in accordance with the Contract requirements the Contracting Authority will notify the Contractor that they have not been accepted.	The proposed change for this article is agreed.

6	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI 2018 - Article 9 - Progress reports. Please delete the last part: [...] "or as the Contracting Authority deems fit". Progress of reports should be in accordance with the contract requirements.	Agreed. The part "or as the Contracting Authority deems fit" will be deleted.
7	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI 2018 - Article 16.4 - Payment and variations The Contractor will always accept and carry out an order for additional work representing up to a maximum of 10% of the original Contract value. Please add at the end: "and Contractor will be entitled to payment of such additional work in accordance with the rates under the Contract."	Agreed, the proposed sentence will be added at the end of the article.
8	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI 2018 - Article 16.5 - Payment and variations Should any new information that is brought to the notice of the Contracting Authority or any changes to the statutory regulations applicable to the work in question lead to the work performed by the Contractor under the Contract becoming demonstrably less demanding or extensive, this constitutes a downward contract variation for which the Contracting Authority is entitled to a discount.	The contracting authority does not agree to leave out the last part of the text from Article 16.5 ARVODI 2018.

9	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI 2018 - Article 18.5 - Payment and Audits Please change as follows: The Contractor is entitled to suspend or terminate its work on account of the Contracting Authority's failure to pay an invoice within the stipulated time limit and the Contracting Authority continues to fail payment given 5 additional days to pay the invoice. In the event that the invoice of the Contractor is inaccurate or the Services have not been properly performed the Contracting Authority shall inform the Contractor immediately of any such inaccuracy. The remedy for the event of the last sentence is covered by clause 18.4	This article will be changed as follows: "The Contractor is entitled to suspend its work on account of the Contracting Authority's failure to pay an invoice within the stipulated time limit and in case the Contracting Authority continues to fail payment given 5 additional days to pay the invoice. In the event that the invoice of the Contractor is inaccurate or the Services have not been properly performed the Contracting Authority shall inform the Contractor within a reasonable time of any such inaccuracy. In the case as described in the previous sentence, Contractor is not entitled to suspend or terminate its work."
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10	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI -2018 Clause 21.3 - Liability Please change as follows: Unless agreed otherwise, a Party that imputably fails to discharge its obligations is liable to the other Party for any direct damages incurred by the other Party, on the understanding that liability is limited to the following amounts: 150% of the contract value in aggregate. [...] The limitation of liability referred to above will not apply: a. in the event of third-party claims for compensation in respect of death or personal injury and caused by the negligent act of Contractor; b. in the event of wilful intent or gross negligence on the part of the other Party, the Contractor's Staff or the Contracting Authority's Staff; c. in the event of a breach of intellectual property rights as referred to in article 24; d. in the event of an agreement concluded between the Parties under article 14, paragraph 2: to claims for compensation in relation to failure to comply with that agreement, including any fines imposed by the supervisory authority.	Not agreed. According to the Contracting Authority, the clause concerning liability contains reasonable and proportionate provisions which limit the liability of the Contractor in several ways. In principle, under the Dutch Civil Code, a Contractor is liable without any legal limitation for all damage suffered by a client. In practice, only the judge has a right of moderation, which is applied in some situations. The liability limitations included in the ARVODI-2018 already deviate from the Dutch Civil Code in this sense in favor of the Contractor
11	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI 2018 - Clause 23 - Retention of right to demand performance Can you please make this subject to a change order or variation. The Contractor should be able to renegotiate the time schedules due to possible other commitments.	The Contracting Authority does not agree with the proposal.
12	Annex 6-III Conditions of Contract - ARVODI_2018	ARVODI 26.2 - Insurances Contractor can provide complete valid insurance certificates, insurance policies cannot be provided. We trust this is acceptable.	Agreed.

14	ARVODI-2018	Article 24 ARVODI-2018 states that the intellectual property rights, as a result of the services carried out by the Contractor, belong to the Contracting Authority. In the Copyright Act and based on the industry conditions all IP rights belong to the creator of the product, in this case the Contractor who does the research and is the author of the technical reports or tools. The main feature of engineering firms is their innovation in research results, tools and products. Therefore, from a commercial point of view, transferring the IP rights to the Contracting Authority is not acceptable. However, we are willing to agree on a right of use for the IP-rights regarding this assignment. This will respect the position of both the Contracting Authority and the Contractor. (see page 55 of the Guide to Proportionality)? Are you willing to remove Article 24 and agree on the following: "The documents provided by the Contractor will become the Contracting Authority's property and may be used by them for the purpose for which they have been produced."	The Contracting Authority understands your explanation. However, the Contracting Authority is of the opinion that Article 24 ARVODI-2018 provides the right legal framework for this. Reference is made to Article 24.3: "In so far as the results of the Services performed are achieved partly or wholly using existing intellectual property rights that do not accrue to the Contracting Authority, the Contractor grants the Contracting Authority a non-exclusive and irrevocable right of use for an indefinite period. In such an event, the Contractor guarantees that it is entitled to grant the aforesaid right of use." Article 24 paragraph 1 then describes what you also describe in your proposal. The Contracting Authority therefore does not agree that Article 24 ARVODI 2018 is deleted nor that it will be replaced by the condition proposed.
15	ARVODI-2018	Article 27.4 ARVODI-2018 states that the Contractor provide the Contracting Authority access to the agreements on employment conditions. We are able to hand over these agreements, assuming that the Contracting Authority is aware of the GDPR (in Dutch: AVG) and ensures that the Contractor does not act in conflict with the GDPR by providing this personal data. Are you willing to add this to the last sentence of Article 27.4 ARVODI-2018: 'in compliance with the provisions of the GDPR?'	The addition is agreed.

16	ARVODI-2018	Article 26.2 ARVODI-2018 states that at the request of the Contracting Authority, the Contractor must immediately submit (an authenticated copy of) the policies and proof of payment of the insurance payments or a statement from the insurance company regarding the applicable policies and payment. Due to the confidential nature we rather not provide access to our insurance policies. However, we can provide the Contracting Authority copies of insurance certificates which also contains proof that the we meet the insurance requirements of Article 26.2. Is a copy of the insurance certificate sufficient to meet the insurance requirements?	Agreed, a copy of the insurance certificate is sufficient. Please also refer to question 12.
17	ARVODI-2018	Article 21 ARVODI-2018 does not contain an expiry of the limitation period for liability, which means the limitation period of article 3:310 of the Dutch Civil Code applies to this situation. Liability can therefore continue for up to 20 years after the damaging event. However, our advice is based on the current circumstances and science and this is constantly evolving. It may occur that our advice no longer fits the new situation. The applicability of the advice depends on changes in the situation that occur in the course of time and we consider it is disproportionate to follow this limitation period. We therefore kindly request that we follow the regulations that are customary within the sector (such as the DNR 2011). We would like you to consider a limitation period of 5 years after the completion of the Services both parties agreed upon. Is it possible to add this provision to Article 21?	The liability as mentioned in Article 21 ARVODI can be limited to 10 years.

18	ARVODI-2018	Article 21.3 ARVODI-2018 states that liability is limited per event, which in this case exceeds the limit of liability under the DNR 2011. We kindly request you to take into account what is customary in the sector for this contract, in accordance with the advice of the Committee of Tenderexperts (Commissie van Aanbestedingsexperts) number 154, inter alia: consideration 6.2.14). Are you willing to limit the liability per event to a maximum of three times the total contract sum?	Not agreed. Please refer to the answer to question no. 10
19	ARVODI-2018	In accordance with Article 19 ARVODI-2018, the client may require an on demand bank guarantee, which will entail additional costs for the Contractor and should therefore be included in the pricing. Do you intend to require an on demand bank guarantee?	A bank guarantee is not relevant for the execution of the assignment and therefore it is not required.
20	ARVODI-2018	Article 15.2 ARVODI-2018 states that certificates of conduct for the Contractor's staff may be required. Because applying for and obtaining these certificates will take some time, we would like to take this into account. Do you intend to request these statements?	No, the Contracting Authority intends not to request the certificates of conduct.
21	Annex 6 - Section IV	Please delete cl. 2.6 Annex 6 – Section IV of the tender document as it is uncommon in the Netherlands to include all risks in the contract price. Such practice would lead to an overall increase of prices in the branch, which does not benefit the client.	The Contracting Authority does not agree with the proposal.
22	Annex 6 - Section IV	Are you willing to delete cl. 2.5 Annex 6 – Section IV of the tender document? It also appears to conflict with cl. 2.8. Any variations should be agreed on, including the remuneration.	The Contracting Authority is willing to delete cl. 2.5 in Annex 6 - Section IV. In case of variations art. 16 of the ARVODI applies.
23	Annex 6 - Section IV	Please align the definitions in Annex 6 – Section IV of the tender document. F.i. "contractor group" does not align with the contract.	Agreed, where "Contractor Group" is written, this should be read as "Contractor"

24	Article. 3.7.1 of the Tender document IJ56	Article. 3.7.1 of the Tender document contains an indemnification of the Contracting Authority for tax claims from the Dutch Tax and Customs Administration. This indemnification is too extensive we consider this disproportionate. We suggest that you replace Article 3.7.1. and 3.7.6 of the Tender Document with the following clause: "The Tenderer indemnifies the CONTRACTING AUTHORITY against claims regarding the Services, to the extent that the claims have been caused by The Tenderer, from the Dutch Tax and Customs Administration (Belastingdienst) or other tax authorities." Are you willing to agree on the suggested amendment?	Agreed with the suggested amendment.
25	Paragraph 3.5 of the Public Service Contract	Par. 3.5 of the Public service contract does not provide a possibility to indexation of Tenderer's rates. In addition, the contract period can be extended twice by 1 year and perhaps even until 2027, with the same terms and conditions applying, see Article 2.4 of the Tender Document. We consider this an onerous term if additional work will be required to complete the project. Are you willing to add the following provision: "The agreed Contract Price may be subject to indexation by Tenderer if the contract period is extended."?	Indexation of the unpaid Payment Milestones is agreed when the Contract period is extended. In case the option to extend the Contract is invoked, the prices and rates can be adjusted once, at least 3 months before the end of the Contract. Requests for indexation can be addressed to contractmanagement@RVO.nl. The prices and rates can be adjusted in line with the index figure set by Statistics Netherlands (CBS Statline) applicable to collectively negotiated hourly wages (including special bonuses) in the business services sector. For this purpose, the monthly figure for the most recently published month is used and the index for the starting month of the Contract is set as 100%. The request for indexation submitted by the Contractor must be itemised, accompanied by a printout from CBS Statline, and contain a reference to the Contract in question with the Contracting Authority. The proposal must contain a summary of both the current prices and rates and the new prices and rates. The Contracting Authority will inform the Contractor in writing of the decision regarding whether or not to accept the new prices and/or rates.

26	IJ56 Tender Document - Section 4.3.2 - page 17	We intend to Tender with a subcontractor, is it allowed to use a combination of reference assignments to prove that we can comply with the core competences?	Yes, this is allowed. Please be aware of the provisions under paragraph 7.3.17 of the Tender Document (Submission of a tender in collaboration with other parties). "If the principal contractor does rely on the capacity of subcontractors in order to demonstrate compliance with the applicable Suitability Requirements, see section 4 of this document), then the subcontractor(s) in question must also complete a separate 'European Single Procurement Document', filling in parts II A, II B, III and IV and legally sign it (see the information under II C in the ESPD). "
27	IJ56 Tender Document - Section 4.3.2 - page 17	The third requirement with respect to size of the investigated area (>100 km ²) and the length of the geophysical surveys (1000km) is in our view unnecessarily restrictive. In our view the competences of Tenderer can also be proven in smaller projects with a similar content. Are you willing to let go or at least reduce the required sizes of the investigated areas for the reference projects ?	Not agreed: the minimum requirements for the investigation area and geophysical survey lengths for the reference projects are fixed and will not be reduced.
28	IJ56 Tender Document - Section 4.3.2 - page 17	The references and experience regarding the geotechnical Interpretation report (item 5) need to be related to the design of turbine foundations and infield cables. Whereas we are of opinion that this competence could also be proven using the same competences for comparable projects. Are you willing to allow references which include preparation of a Geotechnical Interpretative Report for different offshore structures ?	Not agreed. Other offshore structures are considered materially different from turbine foundations and infield cables.
29	IJ56 Tender Document - Section 4.3.2 - page 16	First alinea speaks about 'five core competences' whereas the list contains seven items. Does this mean that we have to comply with at least 5 out of 7 of the elements?	The Tender Document erroneously mentions five core competences in section 4.3.2, this should be seven core competences. So the Tenderer needs to comply with all 7 core competences mentioned in the paragraph.
30	IJ56 Tender Document - section 4.3.2 - page 16	Is non-compliance with any of the reference data (4.3.2) to be considered as an exclusion ground, or will it be allowed (with possibly a negative effect on the score of the qualitative bid of Tenderer)?	It is not allowed to deviate from the Suitability Requirements such as the reference data. Deviation will lead to exclusion of the Tender. The Contracting Authority will judge the suitability of the reference data during the Tender assessment.
31	IJ56 Tender Document - section 1.2 - page 7	Could you please confirm that the development of the PGM is not part of the scope?	Confirmed. For clarity, the PGM is defined as input from the Geophysical Contractor.

32	Annex 6 V - Scope of work	Section 1.3 Site description Does the CONTRACTING AUTHORITY wish to use data from HKW, HKN and IJV 1-4 as part of the process for IJV 5-6?	The Contracting Authority does not stipulate the requirement to the use of data from other Wind Farm Sites to be included in the IJWFS V&VI project.
33	Annex 6 V - Scope of work	Section 1.4 - Investigation Area Please clarify, will the export cable route be defined during the IGM work period and should this be taken into account for any work items?	No, the export cable route will not be defined during the IGM work period and does not need to be taken into account.
34	European Single Procurement Document details	The European Single Procurement Document did not have pre-filled information. Please provide the details on "Notice number in the OJS" as well as the nature of the procedure (above/ below relevant European threshold/ contracting entity subject to Directive 2014/25)	This has been changed. See question 1.
35	Annex 6 V - Scope of work	Section 1.5 - Additional Information "Base map (MPK) containing information on location, via https://offshorewind.rvo.nl/cms/view/796048cf-12cb-4e90-8124-ae4eb73c1c49/general-information-tnw; Incorrect link - does not seem to work	The link indeed points at the wrong website and this file is currently not available online. However a base map (MPK) file is available as part of the Tender Documents (IJ56_GM_Annex 5-Appendix Investigation Area.mpk)
36	IGM IJmuiden I-IV	When will the integrated ground model (data and reports) from IJmuiden I-IV be available?	It is intended that the IGM data and reports from IJmuiden Ver WFS I-IV will be made available in phases during the period Q2/2023-Q4/2023. By the way, it is intended to publish the ground model TNW reports and data in April/May 2022 on the RVO website (https://offshorewind.rvo.nl/cms/view/be898bea-672f-464c-bfaf-74666cb8c489/soil-tnw).

37	Annex 6 V - Scope of work	Section 1.5 - Additional Information "Further results from the geotechnical survey as well as the IGM contents of the ongoing investigations for the IJWFS V-VI Should this be two separate clauses? IGM contents of IJWFS I-IV, and geotechnical survey for IJWFS I-IV and IJWFS V-VI	This is a typo. This sentence should start as follows: "Further results from the geotechnical survey as well as the IGM contents of the ongoing investigations for the IJWFS I-IV"
38	Annex 6 V - Scope of work	Section 2.1 - Introduction The workflow is binding, further options and flexibilities are explicitly assigned. A summary table for the deliverables of every workflow step is presented in section 2.2.20. What if alternative approaches are proposed or elements left out due to overall process improvements, does the PEP/PQP then form the contractual SoW to be performed and supercede this document? How is this agreed between the contracting authority and contractor?	The Scope of Work supersedes the Tenderer's PEP/PQP. However if there are beneficial process improvements, the Contracting Authority and Contractor can, after the award of the Contract, mutually agree deviations from the Scope of Work in writing. Such deviations can be captured in a PEP/PQP.
39	IHS Kingdom	In the scope of work annex "IJ56_GM_Annex 6-V-Scope of Work", it is repeatedly mentioned that the work needs to be carried out in IHS Kingdom. Is it acceptable to perform the work in our preferred software solution if we deliver our final project in IHS Kingdom? Please also confirm the Kingdom Software version that will be delivered from the Geophysical Survey Contractor.	Final and all intermediate / QA deliverables to RVO must be delivered as IHS Kingdom projects using version 2020.
40	GIS/AutoCad	IJ56_GM_Annex 6-V-Scope of Work section 2.2.5: The scope of work annex states that the delivery of the Geotechnical Location Plans shall be in Text, GIS and AutoCAD files. It is not clear what is meant with GIS map and AutoCAD file for this purpose. Can this be clarified?	Geotechnical location plans must be delivered as a GIS-file, of which requirements are stipulated in "Annex 5 - Starting Points and Assumptions". An AutoCAD file format of the location plans will be agreed after Contract award.

41	Annex 6 V - Scope of work	Annex 2.2.1 - Project Execution Plan/Input Relevant geophysical and geotechnical as well as IGM/GIR investigations of other Dutch wind farm zones, especially HKW, TNW WFZ and IJVVWFZ I-IV, see section 1.5 Should all data for NL OWF's be included and used as background information to improve the GIR / would this be of interest to CONTRACTING AUTHORITY in preparation of the tender for IJVVWFZ V-VI?	The Contracting Authority does not stipulate the requirement to the use of data from other Wind Farm Sites to be included in the IJVVWFZ V&VI project. See the answer to question no. 32
42	Specialist software	IJ56_GM_Annex 6-V-Scope of Work section 2.2.17: The scope of work annex for the integrated ground model states that "Provision for a free-of-charge 3D data visualization tool that can be viewed and manipulated without specialist software or uses a 'viewer' component showing at least the Geological Ground Model and geotechnical Soil Unit bodies (as voxel) as well as the mapped Geotechnical Provinces." It is not clear what the definition of specialist software is?	Without specialist software means that data should not be loaded / processed somehow by a specialist in order to be intuitively understandable and viewable by non-Geologists/non-Geophysicists. It should have a "reader" character.
43	Annex 6 V - Scope of work	Section 2.2.1 Project Execution Plan/Activities Innovative proposals for the technical representation of 3D high-resolution multi-attribute models in hundreds-of-square-kilometer scales as a key content of the IGM (e.g. parameter-on-demand-solutions, dynamic resolution fitting techniques to end-user filter or view options), see 2.2.17 Please clarify 'hundreds of square kilometers"', is this both V and VI sites or would models for each site be preferable?	This is for both sites (V-VI) together.

44	Annex 6 V - Scope of work	Section 2.2.2. Review Geophysical Site Investigations/Milestones A Preliminary Ground Model (PGM) including: - o estimated base depth of mobile sediments, - o estimated depth of a set of principal interfaces of geological formations or other horizons of interest, How is the GP contractor and IGM contractor going to interface on this element?	IGM contractor shall have the opportunity to review the deliverables from the GP contractor and Contracting Authority may incorporate feedback from the GM contractor into its feedback to the GP contractor, but there will be no direct interface.
45	Annex 6 V - Scope of work	Section 2.27 Integration of borehole and CPT data into ground model. "Preparation of geotechnical field data and integration into a single seismic workstation project (IHS Kingdom)" Clarification required/ what is meant by field data? Only CPT profiles or BH's also?"	Integration into the Kingdom project can include measurements represented by log profiles (e.g. CPT series) and interfaces (e.g. unit boundaries) and unitisation (as indices) and shall include these as a minimum. Additional data may be proposed to add value, and may come from CPTs or boreholes or both.
46	Annex 6 V - Scope of work	Section 2.2.7 - Integration of borehole and CPT data into ground model "Refinement of seismic velocity models local to each geotechnical investigation locations proposed and approved from the CONTRACTING AUTHORITY with the PEP (2.2.1)." How does this velocity model on a per location basis interact with the wider velocity field for the whole site? Are these separate deliverables in this instance?	Velocity data associated with time-depth pairs, SCPT and P-S logging data at geotechnical investigation locations shall be compared and made compatible (within reason) with the velocity model derived from seismic imaging velocities. However they may be regarded as separate deliverables.

47	Annex 6 V - Scope of work	Section 2.2.8 Laboratory Test Assignment Form (LTAF) and Specification of Test Parameters Contractor to Propose lab test conditions. Can this be proposed as a 'generic' set of rules/conditions for the GT contractor to follow?	Where a generic set of rules or conditions can apply for certain tests, this is acceptable. However, it is the Contractor's responsibility that the specified tests are suitable for interpretation and use by the Geotechnical Contractor. Furthermore, it is anticipated that for several advanced tests, a generic set of testing conditions will not be feasible.
48	Annex 6 V - Scope of work	Section 2.2.9 Geological Ground Model/Activities "Test, parameterise and apply re-migration / stack and post-stack processing as appropriate following evaluation in 2.2.7." Please confirm rationale for using pre-stack data and post-stack data?	This activity is anticipated to potentially be required following update of the seismic imaging velocity field, Tenderer is required to include reprocessing of pre-stack seismic data in the IGM proposal.
49	Annex 6 V - Scope of work	Section 2.2.9. Geological Ground Model - Deliverables "Stacking and Interval velocity as SEG Y trace data at every seismic trace location" How does the contracting authority consider this item for 3DX data?	Contracting Authority considers this item as required for 2D and 3D seismic traces.
50	Add-on software development	IJ56_GM_Annex 6-V-Scope of Work section 2.2.17: The scope of work annex for the integrated ground model states that "A provision of a free-of-charge extension/ implementation to the above-mentioned software or an extra tool, CONTRACTOR to derive geotechnical parameter vertical profiles as tables with confidence intervals/uncertainty information at arbitrary locations of the entire IJWWFS V-VI area." Does "free-of-charge" mean without additional cost?	Yes. Free-of-charge in terms of usable by end-user without extra cost. It is a requirement in the base scope that the referred data can be extracted from the IGM model, without the possibility to claim additional works.

51	Annex 6 V - Scope of work	Section 2.2.13 Geotechnical interpretation of standard laboratory test results/Activities "Statistical description (e.g., low, best and high estimates) of the geotechnical parameters for each engineering Soil Type, as derived from laboratory and in situ tests. The statistical analysis must include the assessment and quantification of the associated uncertainties (e.g. testing biases, transformation models, spatial variability within the unit). The derived values of the geotechnical parameters shall include the parameters as proposed and approved with the PEP document and updates for the basic soil types (i.e. cohesive, non-cohesive, transitional soils)." Please confirm if you wish for descriptions of the uncertainties of each statistical analysis?	Yes this is confirmed.
52	2D UHR details	Please detail the seismic data acquisition parameters as well as (initial) seismic data processing workflow for the 2D UHR data performed by the seismic contractor. Please confirm the density of the seismic velocity analyses performed along the 2D UHR seismics, and if the geological complexity was taken into account for optimising the velocities and therefore model.	This is not possible to detail or confirm at the time of this tender - Tenderer should anticipate comprehensive re-processing potentially from navigation-merged gathers or demultiple applied gathers. The velocity field delivered as part of the PGM should not be anticipated to be sufficiently detailed for optimised imaging of 2D data.
53	3D UHR details	The Scope of Work refers to "2D- (covering 272 km ² and approximately 4750 line km) and 3D-multichannel-UHRS (1500 line km) seismic profiling survey within the IJVWFS V-VI area". From the documentation, it is not clear where the 3D data will be collected. Please also describe the details of the 3D survey (purpose, acquisition details, areal coverage, bin size, whether or not 3D velocity results will be obtained, etc.)	3D data are specified in a ~110m wide corridor around the perimeter of the site and an additional area to be decided, not necessarily contiguous. Bin size is expected to be between 0.5 x 0.5m and 2 x 1m, with full-fold, fully migrated coverage to 60m below sea floor in the centre of the corridor. 3D data are expected to be fully processed and shall include 3D velocity data.

54	Annex 6 V - Scope of work	Section 2.2.14 Final Geological Ground Model/Deliverables. "Re-interpreted interfaces as result of a composed analysis of multiple seismic datasets (e.g., MUHR and Innomar) as single interface grids including clear metadata information about the data sources, geotechnical correlation, and a short summary about the processing, constraints and analysis" Please explain this item, does contracting authority want consistent interfaces based on all datasets?"	Yes, the Contracting Authority wants consistent interfaces based on all datasets.
55	Annex 6 V - Scope of work	Section 2.2.15 - Prediction of CPT and Correlated Measurements at Seismic Trace Locations "One set of linear parameter profiles representing best fit linear approximations within each soil unit, to be vertically and laterally variable as appropriate" Please explain this element further? Does this include best fit schematisations per soil unit, or linear from top to the bottom of the unit? Equally how is lateral variability captured based on these elements - covered by soil province definitions or another intended mechanism?	Linear may be constant with depth or linearly variable with depth. Intercept and gradient may be constant or spatially variable per unit. The appropriate configuration shall be optimised, globally or within zones as appropriate. Contractor is to make a proposal to include reasonable assessment, choice, testing and validation of the approach.
56	Cycle times	IJ56_GM_Annex 4-Cycle Times and Prices_F: What is the consequence of having more days in a "Cycle" than the maximum time shown in the spreadsheet?	A cycle time that exceeds the maximum indicated cycle time (in number of days) renders the proposal invalid and leads to exclusion of the Tender.

57	Annex 6 V - Scope of work	Section 2.2.15 - Prediction of CPT and Correlated Measurements at Seismic Trace Locations "One set of continuously variable (vertically and laterally) parameter profiles derived as a function of one or more input datasets derived from the seismic datasets." Please confirm what is meant here by continuously variable?	Continuous means a sampling/prediction/regression outcome of a parameter in its whole expected value spectrum. No classification or indicator ID.
58	Additional laboratory testing	IJ56_GM_Annex 6-V-Scope of Work section 2.2.4: If the Contracting Authority chooses to perform tests that are not described in the Testing Strategy document, who will be responsible for the corresponding laboratory test specifications, and how will this be compensated?	The Contractor must deliver a comprehensive test strategy that will be suitable for a wide range of foundation types. Contracting Authority will review and give the final approval of the testing strategy once that goal is met. The Contractor must specify all these test types unless there is a good reason why it is not possible.
59	Annex 6 V - Scope of work	Section 2.2.15 Prediction of CPT and Correlated Measurements at Seismic Trace Locations "These may be produced by correlation with seismic and attribute traces by using machine learning or advanced (geo)statistical simulations or algorithms designated for this purpose, with at least four estimated parameters" Please elaborate on advanced (geo)statistical simulations?	The Tenderer should propose the methods that he intends to test, evaluate and implement in his Tender.
60	Annex 6 V - Scope of work	Section 2.2.15 - Prediction of CPT and Correlated Measurements at Seismic Trace Locations Does the contracting authority wish for AGS 4.0 or the current standard, AGS 4.1?	The most current standard for AGS shall be used.

61	Annex 6 V - Scope of work	Section 2.2.16 - Geotechnical Interpretative Report (GIR) ""The characteristic values of geotechnical parameters shall be selected in the sense required by EN 1997-1 or assessed according to the approach outlined in DNV-RP-C207 (2019) and DNV-RP-C212 (2017)."" DNV definition for characteristic values is similar to Eurocode7 The DNV versions listed here differ from those given above. Please confirm CONTRACTING AUTHORITIES intentions here?	There is indeed a mistake in the dates for the referenced documents. Correct document dates are "DNV-RP-C212 (2019)" and "DNV-RP-C207 (2012)". Note that the CONTRACTING AUTHORITY recognises the usage of the DNV-RP-C212 2021 amendment too. In EC7 (EN ISO 1997-1) a section 2.4.5.2 (2)P a characteristic value is defined as "The characteristic value of a geotechnical parameter shall be selected as a cautious estimate of the value affecting the occurrence of the limit state". Consequently, characteristic values are single values appropriate for use in a predefined limit state. (e.g. a Best Estimate undrained shear strength for use in ULS design, a high estimate undrained shear strength for use in driveability assessment, etc.) DNV-RP-C212 is indeed very similar but it allows to define up to 5 ranges for a single geotechnical parameter (Low Estimate, Cautious low best estimate, Best estimate, Cautious high best estimate, High estimate), but these 5 are not necessarily linked to a limit state. For the Contracting Authority either approach is acceptable. The Contracting Authority also gives tenderers the freedom to implement the "design parameter" definition in a way that is practical for use by designers and the Contracting Authority will evaluate the proposal in this sense. For example in the DNV approach providing 5 parameter ranges for key design parameters allows the designer to take a more/less conservative parameter should the designer be more/less risk averse on the specific limit state than the GM CONTRACTOR recommends. OR in the EC7 context providing a single characteristic parameter value for a limit state without indication of the uncertainty on the specific parameter may not lead to acceptance/usage by the designer as the designer cannot verify that the suggested
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62	IGM deliverable time	IJ56_GM_Annex 6-V-Scope of Work Section 2.2 and Annex 4: Workflow and deliverables. Section 2.2.19 of Annex 6 indicates that the final version of IGM and GIR content is scheduled to late Q4 2024. Entering the maximum allowable cycle times for items 2a to 3u in Annex 4 gives a delivery date of 24 October 2024 for the Final Report Integrated Ground Model (item 3u). This appears to be inconsistent with a late Q4 delivery. Can the expected delivery date for the final IGM please be clarified?	The sentence in SoW section 2.2 should read: The final version of IGM and GIR content is scheduled to <u>early</u> Q4 2024.
63	Workflow and deliverables	IJ56_GM_Annex 6-V-Scope of Work Section 2.2 and Annex 4: Workflow and deliverables. For clarity, it would be appreciated if reference to the respective workflow items (Section 2.2 of Annex 6) could be added to the cycle time items listed in Annex 4. This would avoid confusion on expected delivery dates where multiple instances of workflow items are requested (e.g. GIR 2.2.13 & 2.2.16 and GGM 2.2.9 & 2.214).	A revised annex 4 will be uploaded in the beginning of next week.

64	Annex 6 V - Scope of work	Section 2.217 - Integrated Ground Model (IGM) "Parameter-on-Demand solutions or user-optimized dynamic resolution fitting techniques may be proposed but CONTRACTOR must commit to deliver static (voxel, 3D grid or SEG Y as above) data at no extra cost upon request of CONTRACTING AUTHORITY, see also 2.2.1. Implementation of additional parameters (e.g. estimated friction ratio or correlated geotechnical parameter(s) in the 3D volume / format described above Parameters on demand for those applicable (i.e. synthetic CPT parameters) over a set horizontal resolution is achievable, 3D on demand parameters will need to be trialed and innovated on the project. What parameters does the CONTRACTING AUTHORITY see as variable on demand, versus fixed on demand by way of soil province definition?	The Tenderer should propose the methods and parameters that it considers as appropriate, based on its experience and expertise.
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65	Annex 6 V - Scope of work	Section 2.2.18 Integrated Ground Model Report "Documentation and discussion of the derivation and distribution of engineering characteristic values for each unit in relation to aleatoric and epistemic uncertainty of the natural materials and the measurement and estimation systems. Documentation and discussion of the derivation and distribution of structural uncertainty (elevations, thicknesses, depths) for each unit. Combination of parametric and structural uncertainty to be discussed." This item is typically part of the GIR, can you please explain the rationale behind its inclusion in the IGM report for this project?	The GIR should include uncertainties discussed in common standards. The IGM extends this to consider uncertainties within/related to the volume of the Investigation Area.
66	Annex 6 V - Scope of work	Section 2.2.2 - Review of Geophysical Site Investigation To what extent do the CONTRACTING AUTHORITY want IGM contractor involvement in the production of the PGM?	IGM Contractor is expected to view and comment on reports and/or digital data deliverables for their technical content. These comments may be relayed to the GP contractor by the Contracting Authority.
67	Annex 6 V - Scope of work	Section 2.2.7 - Integration of borehole and CPT data into the ground model How has 17 no. geotechnical/geological units been defined? Which sites were used to generate this information? Does this include primary units or also including sub-units?	This is an indicative number based on experience of the adjacent site and it also contains subunits.

68	Annex 6 V - Scope of work	Section 2.2.7. - Integration of borehole and CPT data into the ground model "Correlation drawings illustrating the geophysical and geotechnical data correlation corresponding to initial unitisation of the soil/rock columns. The correlation drawings in combination with CONTRACTOR's laboratory strategy will serve as input for the GT to assign laboratory tests at each location" Will a correlation drawings be required for each location?	Yes.
69	Annex 6 V - Scope of work	Section 2.2.9 - Geological Ground Model What is meant by geometrical basis for the IGM?	The 3D geological units are the structural basis of the IGM to define soil type bodies etc. afterwards. Both should show consistency in terms of the geological context (e.g. no spherelike clay/silt soil type body discretization exceeding bounds of geological units, which show e.g. floodplain structures). The soil type bodies should be in coherence to a deposition setting.
70	Annex 6 V - Scope of work	Section 2.2.17 - Integrated Ground Model How many cross sections or profiles in cross-section are required? Could these be covered by 3D modelling attributes and visualisation, if proposed?	No, the compilation of cross-sections is required. The number of cross-sections depends on the compiled net of cross-sections to optimally trace all CPT and borehole locations.
71	Penalties	IJ56_GM_Annex 6-I-Contract_F: Section 2.4 states penalties associated with key dates. We request removal of these penalties noting that Contractor is heavily dependent on receipt of information/data from third parties in order to fulfil the obligations.	Penalties associated with key dates will not be removed. The Contractor will be granted extension of time for a key date when third parties, who are not under the control of the Contractor, are late with delivering information/data required for that key date.

72	Additional work items	IJ56_GM_Annex 6-III Conditions of Contract - ARVODI_2018: Article 16.4 states "The Contractor will always accept and carry out an order for additional work representing up to a maximum of 10% of the original contract value." Additional work may have schedule and cost implications and this shall be agreed with Contracting Authority prior to acceptance.	This is agreed, because the Contracting Authority cannot order additional work which has not been agreed in advance with the Contractor. See also the answer to questions no. 7 and 22.
73	Liabilities	IJ56_GM_Annex 6-III Conditions of Contract - ARVODI_2018: Article 21.3: The liabilities stated are considered too high, particularly noting the heavy reliance on third parties in order to fulfil obligations. These shall be discussed as part of contract negotiations.	See answer to question no. 10.
74	Annex 6 V - Scope of work	Section 2.2.2: It is described that the chosen contractor will receive Raw data and intermediate data for reprocessing. Will this include processed pre-stack data of the reflection seismic including information of applied processing flows?	Yes, they will have access to the full GP report suite, raw and intermediate pre-stack data.
75	Annex 6 V - Scope of work	Section 2.2.9: Part of the deliverables are seismic attribute datasets as SEG-Y, could you please specify which seismic attributes shall be delivered?	All of the seismic attributes generated by the IGM contractor in the development of the IGM, including all inputs to machine learning or other algorithms applied to predict geotechnical properties and measurements.
76	Annex 6 V - Scope of work	P.12 mentions a Geological desk study and we assume that this is seismic interpretation and seismic reprocessing. Is the SoW under desk study seismic interpretation, seismic processing, or both ?	The Geological Desk Study is a literature review and is available under this link: https://offshorewind.rvo.nl/cms/view/2dd28a50-5344-47a6-b3ff-7d0e36911159/soil-ijmuiden-ver
77	Annex 6 V - Scope of work	P.17 mentions some reprocessing – then what is the state in which input data will be delivered to us?	The referenced input data are expected to be delivered as raw SEG-Y-data or SEG-D-data which will contain navigation in headers.