DFO

PART 1 - GENERAL

1.1 SCOPE .1 The work covered under this project consists of the furnishing of all plant, labour, equipment, hardware and materials, complete and in strict accordance with specifications and accompanying drawings and subject to all terms and conditions of contract. Bidders are advised that opportunities and requirements may arise that may warrant changes to the work that are in keeping with this general scope of work. Such changes will be made through the change order processes as outlined in the contract documents.

.1

1.2 DESCRIPTION

- The work will generally consist of but will not necessarily be limited to the following:
  - Construction and maintenance of temporary .1 dewatering devices and structures.
  - .2 Removal of the existing cobble stone and sandbag diversion walls.
  - .3 Construction of new reinforced concrete diversion walls rock anchored into the underlying bedrock, as indicated on the drawings.
  - Rock removal and construction of a new reinforced .4 concrete levelling slab, rock anchored into the underlying bedrock, as indicated on the drawings.
  - .5 Rock removal and construction of a new reinforced concrete weir, rock anchored into the underlying bedrock, as indicated on the drawings.
  - Site clean-up. .6
  - Note: See Part 1.7 Examination of Site and Part .7 1.16 Site Access for details regarding DFO provided helicopter services.
- 1.3 FISH HABITAT/DOMESTIC .1 USAGE
- Contractors are advised that this project is being carried out in an area where fish habitat may be affected. The contractor will perform the work to conform with all rules and regulations governing fish habitat and in accordance with governing authorities.
  - .2 There shall be no fishing in and around the construction site during the regulated fishing season, even if the employees are in possession of a legal fishing license.
  - .3 The Contractor shall confirm the times, dates, and extent of work required with local fish habitat authorities.

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	. 4	Contact the Department of Fi at least 48 hours in advance site.	
	.5	For inquiries regarding fish Tilman Bieger (email: <u>tilman</u> phone: 772-4029) with DFO H Program.	n.bieger@dfo-mpo.gc.ca or
1.4 SITE OF WORK	.1	Work will be carried out at Mollyguajeck Falls, NL, in the the accompanying drawings. located on the Terra Nova downstream from Mollyguajeck is inaccessible by road, and helicopter.	the location as shown on Mollyguajeck Falls is River approximately 2km Lake. The site of work
1.5 SCHEDULING AND WORK METHODOLOGY	.1	Construction activities canr September 15, 2017.	not commence until after
	.2	All work must be carried out are required to accomplish to berms is to be carried out by licensed to practice in New Drawings of the berm design, are to be submitted to the Dep before any work starts.	this, the design of such a professional engineer foundland and Labrador. stamped by the engineer,
1.6 DATUM	.1	Datum used for this project (TB2), previously establishe elevation of +122.82 m as sh	d onsite with an assumed
	.2	Bidders are advised to con Environment and Conservation Canada Wateroffice in order water level conditions affec	n and the Government of to make sure of changing
1.7 EXAMINATION OF SITE	.1	Before submitting a bid, it is visit the site and its surround the form, nature and extend necessary for the completion of access to the site, sever uncertainty of weather, soil accommodations they may requi- obtain all necessary informa contingencies and other circo influence or affect their bi- made subsequently in this co-	dings to review and verify of work, materials of the works, the means ity, exposure and conditions, any ire, and in general shall tion as to risks, umstances which may d. No allowance shall be

made subsequently in this connection on account of error or negligence to properly observe and determine

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	.2	<ul> <li>following day.</li> <li>A maximum of 1 person p permitted.</li> <li>Time allocated on site will</li> <li>2 days advance notice i</li> </ul>	er a one day period with com Clarenville (flight ontractor is responsible a getting to and from a location will be be Departmental helicopter services te visit held during the shing to visit site shall cesentative to obtain it flying on the ay, it will occur on the er Contractor will be ll be a maximum of 2 hours. s to be given to the tive with respect to the s attending the visit. r within 8 calendars days
	.3	Contractors, bidders or those to review specification Secti Safety Requirements before v appropriate safety measures either before or after accept	on 01 35 29 - Health and isiting site. Take all for any visit to site,
1.8 ARCHIVAL PHOTOGRAPHS	.1	Archival photographs of the ex in Appendix B. These photos contractors an appreciation general understanding of the These photos should in no replacement to an actual site required to visit the site a specification section. Any assumptions made with respect contractor's responsibility.	are intended to give the of site conditions and project scope of work. way be considered a visit. Contractors are as per part 1.7 of this interpretations and/or
1.9 TERMS	.1	Unless specifically stated Engineer where used in the Sp Drawings shall mean the Depar defined in the General Condit	ctment Representative as

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.2	In cases where submittals are under seal of a profession practice in NL, this does re not the Departmental Represe	al Engineer licensed to efer to an Engineer, and
1.10 COST BREAKDOWN .1	Before submitting first breakdown of Contract price Departmental Representative price.	—
.2	Provide cost breakdown in sam and subject title system use and thereafter sub-divided in as directed by Departmental	ed in this specification nto major work components
. 3	Upon approval by Department breakdown will be used as bas	-
. 4	All work items and cost not de table as a measurement for pa in the lump sum arrangement, Acceptance Form.	yment, are to be included
1.11 WORK SCHEDULE .1	Submit within seven (7) work	

WORK SCHEDULE .1 Submit within seven (7) working days of notification of acceptance of bid, a construction schedule showing commencement and completion of all work within the time stated on the bid and acceptance form and the date stated in the bid acceptance letter.

.2 Provide sufficient details in schedule to clearly illustrate entire implementation plan, depicting efficient coordination of tasks and resources, to achieve completion of work on time and permit effective monitoring of work progress in relation to established milestones.

. 3 As a minimum, work schedule to be prepared and submitted in the form of bar (GANTT) charts, indicating work activities, tasks and other project elements, their anticipated durations and planned dates for achieving key activities and major project milestones provided in sufficient details and supported by narratives to demonstrate a reasonable plan for completion of project within designated time (e.g., show target dates for completion of each structure element, if applicable). Breakdown the structure elements to indicate target dates for completion of each element. Generally, bar derived from commercially available charts computerized project management systems are preferred but not mandatory.

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FI0ject NO. F0079-17	.4	Submit schedule updates on more often, when requested Representative, due to free conditions. Provide a nar necessary changes and sched update.	quent changing project rative explanation of
	. 5	The schedule, including al Departmental Representative necessary measures to comp time. Do not change schedu Representative's approval.	e's approval. Take lete work within approved
	. 6	All work on the project wi time indicated on the Bid a	
	.7	Should contractor find that as originally intended, he revised schedule without be Departmental Representative	eing requested to do so by
	. 8	Work schedule to be consi methodology restrictions pr	stent with scheduling and reviously noted in Part 1.5.
1.12 ABBREVIATIONS	.1	Following obbrowistions of	f standard specifications
1.12 ADDREVIATIONS	_ , ⊥	have been used in this spec	f standard specifications if ication and on drawings.
		CGSB - Canadian Government CSA - Canadian Standards A NLGA - National Lumber Grad ASTM - American Society fo	ssociation des Authority
	. 2	Where these abbreviations this project, latest editior call will be considered as	
1.13 LAYOUT OF WORK	1	Set grades and layout work in and grades established by De	-
	.2	Assume full responsibility layout of work to location indicated or as directed by Representative.	s, lines and elevations
	.3	Provide devices needed to 2	layout and construct work.
	. 4	Supply such devices as stra required to facilitate Depa inspection of work.	
	.5	Supply stakes and other su laying out work.	arvey markers required for

Contractor will make own arrangements with Provincial 1.14 QUARRY AND .1 EXPLOSIVES authorities and owners of private properties, for the quarrying and transportation of rock and all materials and machinery necessary for work over their property, roads, or streets as case may be. 1.15 SITE OPERATIONS Arrange for sufficient space adjacent to project site .1 for conduct of operations, storage of materials and so on. Exercise care so as not to obstruct or damage public or private property in area. All arrangements for space and access will be made by contractor and to the approval of the Departmental Representative. All clearing and grubbing work, including tree

specification sections.

.2 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.

preservation, to be in accordance with applicable

- .3 Remove snow and ice as required to maintain safe access in a manner that does not damage existing structures or interfere with the operations of others.
- 1.16 SITE ACCESS
- .1 The existing fishway site is in a remote location that is not accessible by roadway. Therefore, helicopter access will be the only approved method for site access. The Contractor shall submit a Helicopter Site Access Plan/Timeline to the Departmental Representative no later than seven (7) days following the contract award.
  - .2 DFO will provide helicopter services for slinging purposes, to a maximum of 25 hours helicopter flying time. Any additional helicopter time required to complete the work in accordance with the contract documents will be at the Contractor's expense. Coordinate all helicopter service work with the Departmental Representative.
  - .3 The Contractor may require temporary site access measures, once at the site. These on-site measures must be removed upon completion of the project, and all distributed features must be reinstated, as per the existing conditions. If any temporary on-site access measures require approval from governing authorities, it is the responsibility of the Contractor to obtain these approvals/permits and submit them to the Departmental Representative prior to the start of work.

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1.17 PROJECT MEETING	.1	Departmental Representative meetings and assume respons and recording minutes.		
	.2	Project meetings will take p so directed by Departmental		
	.3	Departmental Representative for recording minutes of meet to all parties present at m	ings and forwarding copies	
	.4	Have a responsible member of : Meetings.	firm present at all Project	
1.18 PROTECTION	.1	Store all materials and equ into work to prevent damage		
	. 2	Repair or replace all mater in transit or storage to th no cost to, the Departmenta	e satisfaction of, and at	
1.19 DOCUMENTS REQUIRED	.1	<ul> <li>Maintain at job site, one (1)</li> <li>1 Contract drawings.</li> <li>2 Specifications.</li> <li>3 Addenda.</li> <li>4 Reviewed shop drawings.</li> <li>5 List of outstanding shot.</li> <li>6 Change Orders.</li> <li>7 Other modifications to</li> <li>.8 Field test reports.</li> <li>.9 Copy of approved work states.</li> <li>.10 Site specific Health and safety related documents.</li> <li>.11 Permits and Regulatory Requirements.</li> </ul>	op drawings. contract. schedule. nd Safety Plan and other	
		.12 Other documents as sti Contract Documents.	pulated elsewhere in the	
1.20 TAXES AND PERMITS	.1	Obtain and pay for all perm licenses as required by Munic and other authorities.		
	.2	Provide appropriate notific Municipal and Provincial in		
	.3	Obtain compliance certifica legislative and regulatory Provincial and Federal auth the performance of work	provisions of Municipal,	

the performance of work.

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	.4	Submit to Departmental Represent application submissions and appr received for above referenced au	oval documents
	.5	Submit to Departmental Representa permit, if applicable, prior to operations.	
	.6	Comply with all requirements, re advice by all regulatory authorit agreed in writing by Departmenta Make requests for such deviations sufficiently in advance of relat	ties unless otherwise l Representative. to these requirements
	.7	See Appendices for Regulatory App already obtained by Canada for t	
1.21 EXISTING . SUB-SURFACE CONDITIONS	.1	There is no previous informatic existing sub-surface conditions.	
1.22 CONTRACTOR'S USE . OF SITE	1	The contractor is advised the operations, including storage of contract must not interfere with at the site.	materials, for this
	2	The contractor will be solely resp the storage of materials on or o	
	3	Exercise care so as not to obstr or private property in the area.	

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1.23 WORK COMMENCEMENT		.1	Mobilization to project site is to commence immediated after acceptance of bid and submission of site specifi Safety Plan, unless otherwise directed by Departmenta Representative.	
		.2	Construction activities/pro commence until after Septem continuous reasonable workf directed by Departmental Re	ber 15, 2017, with a orce unless otherwise
		.3	Weather conditions, winter restrictions, delivery chall the work site may require t days and additional workford within the specified comple	lenges and the location of he use of longer working ce to complete the project
		.4	Make every effort to ensure and equipment is delivered possible date after acceptar as required.	to site at the earliest
1.24 ACCEPT	<u>FANCE</u>	.1	Prior to the issuance of the Performance, in company wit Representative, make a check discrepancies before final i	h Departmental of all work. Correct all
1.25 WORKS	COORDINATION	.1	Responsible for coordinatin trades, where the work of su each other.	
		.2	Convene meetings between tra and ensure that they are ful the extent of where interfac each trade with the plans a interfacing trade, as requi planning and carrying out t	lly aware of the areas and bing is required. Provide nd specifications of the red, to assist them in
		.3	Canada will not be responsib for any extra costs incurred to carry out coordination we various trades as a result o of the areas and extent of i sole responsibility of the Ge be resolved at no extra cos	as a result of the failure ork. Disputes between the f their not being informed nterface work shall be the eneral Contractor and shall
1.26 INTERE DOCUMENTS	PRETATION OF	.1	Supplementary to the General 01 sections of the specifica technical specification in specifications.	tions take precedence over

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- 1.27 BIODEGRADABLE <u>HYDRAULIC OILS</u> .1 Equipment working in and adjacent to water way shall be equipped with biodegradable hydraulic oils specifically intended for environmentally sensitive areas. Contractor shall submit MSDS and Technical Data sheets on hydraulic oil to be used for approval by the Departmental Representative.
- 1.28 MEASUREMENT FOR<br/>PAYMENT.1No separate measurement for payment shall be made for<br/>items under this section. Include costs for General<br/>Instructions in the Lump Sum portion of the work on<br/>the Bid and Acceptance Form.
  - .2 <u>Site Access</u>: No separate measurement for payment shall be made for site access. Include all costs in the lump sum portion of the work on the bid and acceptance form.

## PART 2 - PRODUCTS

2.1 NOT USED

PART 3 - EXECUTION

3.1 NOT USED