

ADDENDUM NO. 8

DOMINICA GEOTHERMAL RISK MITIGATION PROJECT II

TO BIDDING DOCUMENT

FOR

Design, Supply, and Installation

Procurement of

(i) New 2.2kV/11kV/33kV/69kV Substations and

(ii) New 11kV/33kV/69kV OHL and UGC

Transmission Lines

(Geothermal Power Plant to Fond Cole)

REFERENCE: DM-DGDC-384816-CW-RFB

March 8, 2024

No.	Reference	Section	Original or Previous Amendment	Amended
1	PART 2 - EMPLOYER'S REQUIREMENTS (UGC)	Section 6.2 Service Conditions Section 10.2 Service Conditions Annex A2-1 69kV XLPE Cable Guaranteed Technical Data Annex A2-8 11kV XLPE Cable Guaranteed Technical Data	The specified cables shall be designed to meet a 22.7kA (1s) earth fault duties for 69kV level. The specified cables shall be designed to meet a 25kA (1s) earth fault duties for 11kV level. Rated short circuit current (1s): Conductor 25kA Rated short circuit current (1s): Conductor 17.5kA	The specified cables shall be designed to meet a 22.56kA (1s) earth fault duties for 69kV level. The specified cables shall be designed to meet a 17.39kA (1s) earth fault duties for 11kV level. Rated short circuit current (1s): Conductor 22.56kA Rated short circuit current (1s): Conductor 17.39kA
2	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	Annex A2-17 33 kV Metal Clad Switchgear Guaranteed Technical Data	Rated peak withstand current: 80kA	Rated peak withstand current: 62.5kA
3	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	Annex A2-18 11 kV Metal Clad Switchgear Guaranteed Technical Data	Rated lightning impulse withstand voltage common value: 85kV	Rated lightning impulse withstand voltage common value: 75kV
4	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	3.1.4.2 Electrical design: MV switchgear (Trafalgar SS) 3.2.4.2 Electrical design: MV switchgear (Padu SS)	For 33kV Switchgear <u>Incoming feeder:</u> - One busbar disconnector with earthing switch 1250A <u>Outgoing feeder:</u> - One busbar disconnector with earthing switch 1250A <u>Busbar Coupling:</u> - Two earthing switch 1250A	For 33kV Switchgear <u>Incoming feeder:</u> - One busbar disconnector 1250A <u>Outgoing feeder:</u> - One busbar disconnector 1250A <u>Busbar Coupling:</u>

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			- Two busbars disconnectors with earthing switch 1250A <u>Measurement cubicle</u> - One busbar disconnector with earthing switch 1250A - One earthing switch 1250A <u>Station service auxiliary transformer</u> - One busbar disconnector with earthing switch 630A	- Two busbars disconnectors with earthing switch 1250A (Separate two earthing switches are removed) <u>Measurement cubicle</u> - One busbar disconnector (Separate earthing switch is removed) <u>Station service auxiliary transformer</u> - One busbar disconnector 630A
5	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	3.3.4.2 Electrical design: MV switchgear (Fond Cole SS)	For 33kV Switchgear <u>Incoming feeder:</u> - One busbar disconnector with earthing switch 1250A <u>Outgoing feeder:</u> - One busbar disconnector with earthing switch 1250A <u>Measurement cubicle</u> - One busbar disconnector with earthing switch 1250A - One earthing switch 1250A For 11kV Switchgear <u>Incoming Transfrmer feeder:</u>	For 33kV Switchgear <u>Incoming feeder:</u> - One busbar disconnector 1250A <u>Outgoing feeder:</u> - One busbar disconnector 1250A <u>Measurement cubicle</u> - One busbar disconnector (Separate earthing switch is removed) For 11kV Switchgear <u>Incoming Transfrmer feeder:</u>

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			- One busbar disconnector with earthing switch 1250A <u>Incoming feeder to connect existing 11kV switchgear:</u> - One busbar disconnector with earthing switch 1250A <u>Incoming high speed generator feeder:</u> - One busbar disconnector with earthing switch 1250A <u>Outgoing feeder:</u> - One busbar disconnector with earthing switch 1250A <u>Busbar Coupling:</u> - Two earthing switch 2000A - Two busbars disconnectors with earthing switch 2000A <u>Measurement cubicle</u> - One busbar disconnector with earthing switch 1250A - One earthing switch 1250A <u>Station service auxiliary transformer</u> - One busbar disconnector with earthing switch 630A	- One busbar disconnector 1250A <u>Incoming feeder to connect existing 11kV switchgear:</u> - One busbar disconnector 1250A <u>Incoming high speed generator feeder:</u> - One busbar disconnector 1250A <u>Outgoing feeder:</u> - One busbar disconnector 1250A <u>Busbar Coupling:</u> - Two busbars disconnectors with earthing switch 2000A (Separate two earthing switchs are removed) <u>Measurement cubicle</u> - One busbar disconnector (Separate earthing switch is removed) <u>Station service auxiliary transformer</u> - One busbar disconnector 630A

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9	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	Annex A2-2 69kV GIS Circuit Breaker Guaranteed Technical Data Annex A2-3: 69kV GIS Disconnect Switch and earth Switch Guaranteed Technical Data	Rated current Coupler: 2000A Rated current Coupler: 2000A	Rated current Coupler: 1250A Rated current Coupler: 1250A
10	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	Annex A3-8 - DGDC-EL-FC-SLD-001	3 cores CT for 69kV Transformer Bay	4 cores CT for 69kV Transformer Bay
11	FOND COLE SUB Price Schedule	Schedule 4	Parapets a) Parapets all around the two buildings c) /	Parapets a) Parapets all around the two buildings b) Waterproofing of the roof
12	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	Annex A2-3: 69kV GIS Disconnect Switch and earth Switch Guaranteed Technical Data	Operating duty cycle: O - 0.3sec – CO - 3min – CO	Removed from table
13	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	Annex A2-4: 69kV GIS Current transformers Guaranteed Technical Data	One minute power frequency withstand voltage between sec. Terminal & earth: 5kV	One minute power frequency withstand voltage between sec. Terminal & earth: 3kV
14	PART 2 - EMPLOYER'S REQUIREMENTS (SUBSTATIONS)	26.2 Low voltage cables	each core with one solid round copper conductor with colored insulation	each core with one solid round or stranded copper conductor with colored insulation
15	RFB Part I (Bidding Procedures) and III (Conditions of Contract and Contract Forms)	Section VII –Employer's Requirements Contractor's Representative and Key Personnel	(a) Full Employer Requirements – Key Personnel K1 Minimum years total work experience: 20 (b) Full Employer Requirements Non-Key Personnel	(a) Minimum years total work experience: 15 (b) Minimum years total work experience: 7

No.	Reference	Section	Original or Previous Amendment	Amended
		<u>11kV XLPE Cables</u> 10.3. Design and construction requirements	“Steel wire armor has high short circuit current handling capacity ...” “Minimum bending radius shall be 10xD” “Armouring shall be provided consisting of galvanized strip steel wires conforming to IEC 60502 Part – 2 ...” “Steel wire armor has high short circuit current handling capacity ...” “Minimum bending radius shall be 10xD”	“Galvanized Steel tapes armor has high short circuit current handling capacity ...” “Minimum bending radius shall be 15xD” “Armouring shall be provided consisting of galvanized steel tapes conforming to IEC 60502 Part – 2 ...” “Galvanized Steel tapes armor has high short circuit current handling capacity ...” “Minimum bending radius shall be 15xD”
19		<u>10. 33 kV Air insulated Metal-clad Switchgear</u> 10.4 Earthing <u>11. 11 kV Air insulated Metal-clad Switchgear</u> 11.4 Earthing	Only earthing switch are described in these sections	Title of the section changed and addition of specifications for Busbar Disconnecter: 10.4 Busbar Disconnecter and Earthing Switch 11.4 Busbar Disconnecter and Earthing Switch
20	RFB Part I (Bidding Procedures) and III (Conditions of Contract and Contract Forms)	<u>Section III</u> <u>1.2 Contractor’s Representative and other Key Personnel</u> <u>Section VII</u> <u>Contractor’s Representative and Key Personnel</u>	Relevant academic qualifications and technical experience for positions K1 to K8 Relevant academic qualifications and technical experience for positions K1 to K8 and N1 to N7	Relevant academic qualifications and technical experience for positions K1 to K8 has been reformatted to show Minimum Criteria and Additional Criteria

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				Relevant academic qualifications and technical experience for positions K1 to K8 and N1 to N7 has been reformatted to show Minimum Criteria and Additional Criteria. See attachment: Updated Contractor’s Representative and other Key Personnel for Section III and Section VII – 6 March 2024  Adobe Acrobat Document