

REFERENCE: DM-DGDC-384816-CW-RFB

Updated Contractor's Representative and other Key Personnel for Section III and Section VII – 6 March 2024

Section III

1. Qualification

1.2 Qualification Requirements

The Bidder's qualification shall be assessed in accordance with the Qualification table included in this section.

1.3 Contractor's Representative and other Key Personnel

The Bidder must demonstrate that it will have suitably qualified Contractor's Representative and other suitably qualified (and in adequate numbers) key personnel, as described in the Employer's Requirements and shown below.

No.	Position/ specialization	Relevant academic qualifications and technical experience	Minimum years total work experience	Minimum years of relevant work experience
K 1	Contractor's Representative/Proj ect Manager (In case of Joint Venture or Consortium, the Representative must come from the majority shareholder of the JV or consortium)	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical Engineering or related engineering discipline - Must provide at least Two (2) verifiable references in the last seven (7) years of working on similar position <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Formal training in project management tools and techniques and/or Project Management Professional (PMP) certification. - Proficiency with MS suite and scheduling software	15	10

K2	Site Manager	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical or Construction Engineering or related engineering discipline - Must provide at least two (2) verifiable references in the last seven (7) years of working on similar position <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Formal training in project management tools and techniques and/or Project Management Professional (PMP) certification. - Technical expertise in High Voltage Underground Cable installations above 66kV. - Technical expertise in High Voltage Overhead line installations above 66kV - Technical expertise in substation Electrical equipment from LV to HV level: AIS and GIS High Voltage equipment, MV Metal clad Switchgears, HV Power & Distribution Transformers, Power and Control Cables and auxiliary equipment, Substation Automation System and Telecommunication Equipment - Proficiency with MS suite and scheduling software	15	10
K3	Resident Engineer (Substation)	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Civil/Construction Engineering - Experience on at least two (2) projects in handling, installation, testing and commissioning of AIS and GIS High Voltage equipment, MV Metal clad Switchgears, HV Power & Distribution Transformers, Power and Control Cables and auxiliary equipment <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Formal training and/or certification in Civil/Construction tools and techniques - Formal training and/or certification in Electrical tools and techniques - Experience on at least two (2) projects in substation civil works design	7	5

K4	Resident Engineer (Overhead Lines and Underground Cables)	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Civil/Construction Engineering - Experience on at least two (2) projects in construction of High Voltage Overhead Lines 66kV or greater <u>Additional Criteria</u> - Professional Engineering (PE) registration - Competent in High Voltage Underground Cable Construction, as well as design techniques, and implementation of designs, and HV Cable jointing expertise - Competent in High Voltage Overhead Line Construction, as well as design techniques, and implementation of designs emanating from: PLS Cadd, PLS Pole.	7	5
K5	Control and Protection Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical Engineering - Experience on at least two (2) projects in Design, Testing and Commissioning of substation control and protection system <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certification in substation control and protection relays tools/techniques	7	5
K6	SCADA Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical/Telecommunication Engineering - Experience on at least two (2) projects in Design, Testing and Commissioning of Substation Automation System and Telecommunication equipment <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certification in Substation Automation System and Telecommunication tools/techniques	7	5

K7	Social Protection Specialist	<u>Minimum Criteria</u> - Bachelor's degree in Sociology, or related fields - Experience on at least two (2) projects in the last five (5) years of working in a similar position on transmission and infrastructure projects	7	5
K8	Environmental Protection Specialist	<u>Minimum Criteria</u> - Bachelor's degree in environmental or natural sciences, environmental engineering, public health, or a related field - Experience on at least two (2) projects in the last five (5) years of working in a similar position on transmission and infrastructure projects	7	5

Section VII

Contractor's Representative and Key Personnel

Full Employer Requirements – Key Personnel

No.	Position/ specialization	Relevant academic qualifications and technical experience	Minimum years total work experience	Minimum years of relevant work experience
K 1	Contractor's Representative/Proj ect Manager (In case of Joint Venture or Consortium, the Representative must come from the majority shareholder of the JV or consortium)	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical Engineering or related engineering discipline - Must provide at least Two (2) verifiable references in the last seven (7) years of working on similar position <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Formal training in project management tools and techniques and/or Project Management Professional (PMP) certification. - Proficiency with MS suite and scheduling software	15	10
K2	Site Manager	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical or Construction Engineering or related engineering discipline - Must provide at least two (2) verifiable references in the last seven (7) years of working on similar position <u>Additional Criteria</u> - Professional Engineering (PE) registration or	15	10

		equivalent - Formal training in project management tools and techniques and/or Project Management Professional (PMP) certification. - Technical expertise in High Voltage Underground Cable installations above 66kV. - Technical expertise in High Voltage Overhead line installations above 66kV - Technical expertise in substation Electrical equipment from LV to HV level: AIS and GIS High Voltage equipment, MV Metal clad Switchgears, HV Power & Distribution Transformers, Power and Control Cables and auxiliary equipment, Substation Automation System and Telecommunication Equipment - Proficiency with MS suite and scheduling software		
K3	Resident Engineer (Substation)	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Civil/Construction Engineering - Experience on at least two (2) projects in handling, installation, testing and commissioning of AIS and GIS High Voltage equipment, MV Metal clad Switchgears, HV Power & Distribution Transformers, Power and Control Cables and auxiliary equipment <u>Additional Criterial</u> - Professional Engineering (PE) registration or equivalent - Formal training and/or certification in Civil/Construction tools and techniques - Formal training and/or certification in Electrical tools and techniques - Experience on at least two (2) projects in substation civil works design	7	5
K4	Resident Engineer (Overhead Lines and Underground Cables)	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Civil/Construction Engineering - Experience on at least two (2) projects in construction of High Voltage Overhead Lines 66kV or greater	7	5

		<u>Additional Criteria</u> - Professional Engineering (PE) registration - Competent in High Voltage Underground Cable Construction, as well as design techniques, and implementation of designs, and HV Cable jointing expertise - Competent in High Voltage Overhead Line Construction, as well as design techniques, and implementation of designs emanating from: PLS Cadd, PLS Pole.		
K5	Control and Protection Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical Engineering - Experience on at least two (2) projects in Design, Testing and Commissioning of substation control and protection system <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certification in substation control and protection relays tools/techniques	7	5
K6	SCADA Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical/Telecommunication Engineering - Experience on at least two (2) projects in Design, Testing and Commissioning of Substation Automation System and Telecommunication equipment <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certification in Substation Automation System and Telecommunication tools/techniques	7	5
K7	Social Protection Specialist	<u>Minimum Criteria</u> - Bachelor's degree in Sociology, or related fields - Experience on at least two (2) projects in the last five (5) years of working in a similar position on transmission and infrastructure projects	7	5
		<u>Minimum Criteria</u> - Bachelor's degree in environmental or natural		

K8	Environmental Protection Specialist	sciences, environmental engineering, public health, or a related field - Experience on at least two (2) projects in the last five (5) years of working in a similar position on transmission and infrastructure projects	7	5
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Full Employer's Requirements-non-Key Personnel

No.	Position/ specialization	Relevant academic qualifications and technical experience	Minimum years total work experience	Minimum years of relevant work experience
N1	Commissioning Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical Engineering - Experience on at least two (2) projects in Testing and commissioning of all Electrical equipment from LV to HV level: AIS and GIS High Voltage equipment, MV Metal clad Switchgears, HV Power & Distribution Transformers, Power and Control Cables and auxiliary equipment <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certifications in substation LV and HV equipment testing and commissioning tools/techniques	7	5
N2	Quality Assurance Manager	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in QA field <u>Additional Criteria</u> - Experience on at least two (2) projects in the last seven (7) years of working on similar position in the electrical transmission field - Strong experience in QA related to electrical transmission field	7	5

N3	Electrical Design Engineer - Substations	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical Engineering - Experience on at least two (2) projects in GIS or AIS substation electrical design <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certification/training in substation electrical design tools/techniques: AIS and GIS switchgear, MV metal-clad switchgear, HV Power transformers and control cables, ...	7	5
N4	Civil Design Engineer - Substations	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Civil/Construction Engineering - Experience on at least two (2) projects in AIS and GIS substation Civil/Construction design <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Certification/training in substation Civil/Construction design tools/techniques: AIS and GIS switchgear building, Control building, HV Power transformers foundations, Power and control cables trenches/ducts, ...	7	5
N5	Overhead line Design Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical / Civil/Construction Engineering - Experience on at least two (2) projects in construction OF High Voltage Overhead Lines 66kV or greater <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent - Competent in High Voltage Overhead Line Construction, as well as design techniques, and implementation of designs emanating from : PLS Cadd, PLS Pole. - Experience in design using : PLS Cadd, PLS Pole	7	5

N6	Underground Cable Design Engineer	<u>Minimum Criteria</u> - Bachelor's degree or equivalent qualifications in Electrical or Civil Engineering - Experience on at least two (2) projects in the design of high voltage Underground Cable installations of 66kV or greater <u>Additional Criteria</u> - Professional Engineering (PE) registration or equivalent	7	5
N7	Land Surveyor	<u>Minimum Criteria</u> - Bachelor's degree in Land Surveying or equivalent Experience on at least two (2) projects involving geo-reference surveys and setting out in civil works using GPS and Total Station	7	5