

NIGERIAN ELECTRICITY REGULATORY COMMISSION (NERC)

REGULATIONS ON NATIONAL CONTENT DEVELOPMENT FOR THE POWER SECTOR

SCHEDULE TO THE REGULATION - PART A

MINIMUM SPECIFICATION OF NIGERIAN CONTENT

S/N.	DESCRIPTION		MINIMUM NIGERIAN CONTENT % TARGET			
			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
1.0	POWER GENERATION****					
	1.0.0	Electrical/Mechanical	SPEND			
	1.0.1	Turbines	"	-	-	-
	1.0.2	Instrument Panels	"	10	15	30
	1.0.3	Boilers & Pipes	"	20	30	50
	1.0.4	Balance of Plant (BOP)	"	25	50	75
	1.0.5	Pumps	"	10	10	25
	1.0.6	Motors	"	-	10	25
	1.0.7	Heat Exchangers	"	-	30	50
	1.0.8	Bearings	"	-	-	25
	1.0.9	Instrumentation & Control	"	0	10	30
	1.0.10	Transformers: Power & Instruments	"	0	20	20
	1.0.11	Protection Devices	"	0	10	20
	1.0.12	Earthing Devices/Materials	"	10	30	50
	1.0.13	Cables: POWER & Control	"	20	30	50
	1.0.14	Water Treatment Plants	"	30	50	75
	1.0.15	Hydrogen Generation Plants	"	10	25	50
	1.0.16	Interface Energy Meters	"	10	20	30
	1.0.17	Bolts & Nuts	"	10	30	50

**** The Regulations fully recognise that hi - tech OEM Equipment e.g. Turbines have little scope for National Content in the near term. However, it is expected that the maintenance of such Equipment have significant scope for National Content.

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
	POWER GENERATION					
	1.1.0	Civil Works	SPEND			
	1.1.1	Construction of Turbine Foundations	"	100	100	100
	1.1.2	Construction of Transformer Plinths	"	100	100	100
	1.1.3	Construction of Control Rooms	"	100	100	100
	1.1.4	Constrcution of Cable Trenches	"	100	100	100
	1.1.5	Construction of Various foundations & other Civil Works in power plants	"	100	100	100

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
	POWER GENERATION					
1.2.0	Automation**** (installation, service works, integration)		SPEND			
1.2.1	Station Automation		"	20	50	75
1.2.2	Communication Infrastructure		"	20	50	75
1.2.3	Control Centres		"	20	50	75
1.2.4	Performance & Diagnostics		"	20	50	75
1.2.5	Intelligent Electronic Devices & Sensors		"	20	50	75
1.2.6	Automatic Fault Tracing & Diagnosis		"	20	50	75

**** These refer to system integration and/or installation and service works and not materials or OEM Equipment

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
2.0	<u>POWER TRANSMISSION</u>					
	2.0.0	Electrical/Mechanical (Materials and Equipments)	SPEND			
	2.0.1	Switchgear such as CBS.	"	0	10	20
	2.0.2	Sub-Station equipment	"	0	10	20
	2.0.3	Transformers: Power & Instruments	"	10	10	20
	2.0.4	Reactors, SVCs & other Compensators	"	-	10	20
	2.0.5	Protection Devices	"	0	10	20
	2.0.6	Earthing Devices/Materials	"	10	30	50
	2.0.7	Cables: Power & Control	"	20	30	50
	2.0.8	Conductors	KM	30	50	100
	2.0.9	Energy Meters	SPEND	10	20	30
	2.0.10	Instrument Panels	"	0	10	30
	2.0.11	Erection of Transmission Towers	"	30	70	100
	2.0.12	Galvanized Steel Structures	TONNES	15	50	100
	2.0.13	Line Fittings such as Insulators & other accessories	SPEND	10	20	30
	2.0.14	Vegetation control		100	100	100
	2.0.15	Bolts & Nuts	SPEND	10	30	50

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
	POWER TRANSMISSION					
	2.1.0	Civil Works	SPEND			
	2.1.1	New & Expansion	"	100	100	100
	2.1.2	Digging of Tower Foundations	"	100	100	100
	2.1.3	Construction of Tower foundations	"	100	100	100
	2.1.4	Construction of Transformer Plinths	"	100	100	100
	2.1.5	Construction of Control Rooms	"	100	100	100
	2.1.6	Construction of cable trenches	"	100	100	100
	2.1.7	Gravelling of sub-stations	"	100	100	100
	2.1.8	Construction of various foundations & other civil works in sub-stations	"	100	100	100

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
	POWER TRANSMISSION					
	2.2.0	Automation (Installation, Service works, Integration)	SPEND			
	2.2.1	SCADA Systems Optical Fibres	"	20	50	75
	2.2.2	sub-station Automation	"	20	50	75
	2.2.3	Communication Infrastructure	"	20	50	75
	2.2.4	Control Centres	"	20	50	75
	2.2.5	Performance and Diagnostics	"	20	50	75
	2.2.6	Intelligent Electronic devices & sensors	"	20	50	75
	2.2.7	Automatic Fault Tracing & Diagnosis	"	20	50	75

**** These refer to system integration and/or installation and service works and not OEM materials

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
3.0	DISTRIBUTION					
	3.0.0	Electrical/Mechanical	SPEND			
	3.0.1	Switchgear	"	25	50	75
	3.0.2	Transformers	"	25	50	75
	3.0.3	Protection devices	"	10	30	50
	3.0.4	meters	"	40	75	100
	3.0.5	Instrument panels	"	15	25	45
	3.0.6	Switchgear such as CBS	"	10	25	50
	3.0.7	Sub-station equipment	"	25	50	80
	3.0.8	Transformers: Distribution & Instruments	"	20	50	80
	3.0.9	Reactors, SVCs, and other Compensators	"	-	10	30
	3.0.10	Earthing Devices/Materials	"	30	60	100
	3.0.11	Cables: Power & Control	"	20	50	75
	3.0.12	Condcutors	"	40	75	100
	3.0.13	Energy Meters	"	40	75	100
	3.0.14	Instrument panels	"	15	25	45
	3.0.15	Poles: Concrete, Wood, Galvanized Steel	"	70	100	100
	3.0.16	Galvanized Steel Structures	"	30	100	100
	3.0.17	Vegetation Management	"	100	100	100
	3.0.18	Line Fittings such as Insulators & other accessories	"	10	45	75

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
	DISTRIBUTION					
	3.1.0	Civil Works	SPEND			
	3.1.1	New Sub-Station and sub-station upgrades	"	100	100	100
	3.1.2	Distribution network (New and Expansion)	"	100	100	100
	3.1.3	Cutting and Drilling of Channel/Angle Iron	"	100	100	100
	3.1.4	Digging of and backfilling of Pole foundations	"	100	100	100
	3.1.5	Construction of Transformer Plinths	"	100	100	100
	3.1.6	Construction of Control Rooms	"	100	100	100
	3.1.7	Construction of Cable Trenches	"	100	100	100
	3.1.8	Graveeling & Fencing of sub-stations	"	100	100	100
	3.1.9	Construction of various foundations & other civil works in sub-stations	"	100	100	100

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			Measured Unit	2019 Start	2020-2023 3 years	2024 above
	DISTRIBUTION					
	3.2.0	Automation**** (System, Integration and Installation)	SPEND			
	3.2.1	SCADA Systems Optical Fibres	"	20	50	75
	3.2.2	Sub-Station Automation	"	20	50	75
	3.2.3	Communication Infrastructure	"	20	50	75
	3.2.4	Control Centres	"	20	50	75
	3.2.5	Performance and Diagnostics	"	20	50	75
	3.2.6	Intelligent Electronic devices & sensors	"	20	50	75
	3.2.7	Automatic Fault Tracing & Diagnosis	"	20	50	75

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REQUIREMENT FOR LABOR

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			Measured Unit	2019 Start	2020-2023 3 years	2024/ above
4.0		REQUIREMENT FOR LABOR				
	4.0.1	Design Engineering	Man-hour	60	75	100
	4.0.2	Information Systems, Technology & Communication Services	SPEND	40	60	75
	4.0.3	Health, Safety and Environment and Services	SPEND	75	100	100
	4.0.4	Operation & Maintenance Services	SPEND	25	50	75
	4.0.5	Haulage Services	SPEND	100	100	100
	4.0.6	Stringing of Conductors	"	75	100	100
	4.0.7	Supply and Installation of Meters	"	75	100	100
	4.0.8	Supply and installation of other lines and sub-station equipment & materials	"	75	100	100
	4.0.9	Supply of materials such as transformer or lube oils, chemicals, etc.	"	50	75	100
	4.0.10	Laying of cables	"	100	100	100
	4.0.11	Cable Jointing	"	100	100	100
	4.0.12	Testing and Certification of Power Transmission Towers	"	0	30	75
	4.0.13	Installation of Tower Fittings	"	80	100	100
	4.0.14	Earthing works	"	80	100	100
	4.0.15	Funding	"	10	15	20
	4.0.16	Other Financial Services (Accounting, Auditing, Consulting)		100	100	100
	4.0.17	Insurance		80	100	100
	4.0.16	Legal Services	"	80	100	100
	4.0.17	Training & capacity development services	"	40	60	75
	4.0.18	Other Technical Consultancy Services	"	40	60	75
	4.0.19	Administrative Services such as procurement, recruitment, security, etc.	"	80	100	100

