

6695-CMG-G00-CA-0006

**TENDER FOR LSTK Package LSTK-1****Package Description: Bauxite storage, handling and secondary Crushing****SYNOPSIS OF TENDER**

SR. NO.	VOLUME NO.	NO. OF SECTIONS	DESCRIPTION
1	1	12	<b>COMMERCIAL</b>
			Contains Notice Inviting Tender (NIT) (BQC), Instructions To Bidders (ITB), General Terms & Conditions of Contract, General Conditions of Contract, Special Conditions (Part A) of LSTK Contract, Special Conditions (Part B) of LSTK Contract, Acknowledgement-Cum-Consent Letter, Proposal Forms, Schedule of Prices (SP) Forms, Commercial Questionnaire, Technical Questionnaire.
2	2	8	<b>PROJECT MANAGEMENT, SCOPE OF SUPPLIES &amp; SCOPE OF WORK</b>
			Project Management & Planning, Scheduling & Monitoring System, Vendor List, Spare Philosophy, Battery Limit, Scope of Work & Scope of Supplies.
3	3	3	<b>QA PLANS, CONSTRUCTION SPECIFICATIONS &amp; COMMISSIONING</b>
			QA Plan For Engineering & Shop Inspection, Construction Specifications, Construction QA & QC Requirements, Construction HSE Requirements, Construction Management Guideline, Commissioning & Performance Test Run
4	4	7	<b>FEED DOCUMENTS</b>
			Design Basis, System Description , Equipment List , PFDs, Equipment Datasheets, Technical Specifications, General Engineering Specifications, Overall Plot Plans (Conceptual), Piping Specification, Civil Standard drawings, Single Line Diagrams, Installation Standards etc.
5	5	1	<b>REFERENCE DOCUMENTS</b>
			Licensors BEP and Other Reference Documents

**VOLUME - 1****COMMERCIAL**

SECTION NO.	PART NO.	DOCUMENT NO.	DESCRIPTION	REV.
1		-	Notice Inviting Tender (BQC)	0
2		6695-PPM-0003	Acknowledgement-Cum- Consent Letter	2
3		6695-PPM-0004	Proposal Forms A - P	2
4		6695-PPM-0005	Instructions To Bidders - (I.T.B.)	2
5		6695-PPM-0006	Special Conditions of Contract (Part A & Part B)	2
6		6695-PPM-0007	Schedule of Prices (SP) Forms	2
7		6695-PPM-0008	Commercial Questionnaire	2
8		6695-PIP-552-CA-0001	Technical Questionnaire	1
9		-	General Terms And Conditions Of Contract	0
10		-	General Conditions Of Contract	0

SECTION NO.	PART NO.	DOCUMENT NO.	DESCRIPTION	REV.
<b>VOLUME - 2</b>				
<b>PROJECT MANAGEMENT, SCOPE OF SUPPLIES &amp; SCOPE OF WORK</b>				

<b>1</b>			<b>Project Management</b>	
	1	6695-PMG-G00-BD-0005	Project Execution Plan Requirement For Contractor	01
	2	6695-PIP-552-AB-0001	Document matrix	01
	3	6695-PDM-G00-BD-0002	Vendor's Documentation	00
	4	6695-PMG-G00-BD-0006	IT & Software Requirements	00
<b>2</b>			<b>Project Planning, Scheduling &amp; Monitoring System</b>	
	1	6695-PSC-G00-BE-0006	Project Planning, Scheduling & Monitoring System For Contractor	02
<b>3</b>			<b>Vendor List &amp; Spare Philosophy</b>	
	1	6695-PPM-552-BA-0001	Equipment Vendor List	00
	2	6695-PIP-552-CA-0002	Spare Philosophy	01
<b>4</b>			<b>Job Instruction</b>	
	1	6695-PIP-552-CA-0003	General Job Instructions to Contractor	01
<b>5</b>			<b>Battery Limit Documents</b>	
	1	6695-PIP-552-CA-0004	Battery Limit Drawing : General	01
	2	6695-ELT-552-CA-0002	Battery Limit & Interfaces - Electrical	01
	3	6695-INS-552-CA-0001	Battery Limit & Interfaces - Instrumentation - Bauxite	00
<b>6</b>			<b>Scope Of Work</b>	
	1	6695-PIP-552-CA-0005	Scope Of Work For Contractor -General	01
	2	6695-EQS-552-CA-0001	Scope Of Work For Contractor - Static	01
	3	6695-EQM-552-CA-0013	Scope Of Work For Contractor - Rotating Equipment	00
	4	6695-PIP-552-CA-0007	Scope of Work for Contractor - Piping & Material Handling	00
	5	6695-CVC-552-CA-0001	Scope Of Work For Contractor - Civil, Structural & Architectural	01
	6	6695-ELT-552-CA-0001	Scope Of Work For Contractor - Electrical	01
	7	6695-INS-552-CA-0002	Scope Of Work For Contractor - Instrumentation	01

SECTION NO.	PART NO.	DOCUMENT NO.	DESCRIPTION	REV.
<b>VOLUME - 3</b>				
<b>QA &amp; HSE PLANS</b>				

<b>1</b>			<b>Quality Assurance Plan Requirement</b>	
	1	6695-IEX-G00-EC-0001	Project Inspection & Test Plan For Shop Inspection - Static Equipment & Packages (For Electrical, refer respective ELTech Specs)	00
	2	6695-CMG-G00-CA-0005	Construction Quality Assurance & Control Requirements	01
	3	6695-EQM-G00-QA-0001	Inspection Test Plan Requirements For Rotating Equipment	01
	4	6695-INS-G00-QA-0001	Inspection Test Plan Instrumentation	01
	5	6695-INS-G00-QA-0002	Quality Assurance plan for Instrumentation Erection	01
	6	6695-ELT-G00-QA-0001	QAP for Site Installation, testing & Commissioning - Electrical	00
	7	6695-PIP-552-CA-0006	Inspection categorisation plan	01
<b>2</b>			<b>Health, Safety &amp; Environmental Requirements</b>	
	1	6695-PRC-G00-BG-0001	Health, Safety & Environmental Requirements For Engineering	01
	2	6695-CMG-G00-CA-0003	Construction Health, Safety & Environmental Requirements	01
<b>3</b>	1	6695-CMG-G00-CA-0004	Construction Management Requirements	01

<b>VOLUME - 4</b>				
<b>FEED DOCUMENT</b>				

<b>1</b>			<b>PROCESS</b>	
	1	6695-PRC-G00-EC-0001	Project Design Basis	01
	2	6695-PRC-000-FB-0101 to 0105	Legend sheet P&ID's	00
	3		<b>Flow Diagram</b>	
	3.1	6695-PIP-552-FB-0001	Bauxite storage, handling and secondary crushing	01
	4	6695-PRC-552-PD-0005	Equipment List (Major)	01
	5	6695-PRC-G00-BG-0002	Commissioning & Performance Test Run	01

SECTION NO.	PART NO.	DOCUMENT NO.	DESCRIPTION	REV.
<b>2</b>			<b>ROTATING</b>	
	1		<b>General Engineering Specifications &amp; Other Technical Documents</b>	
	1.1	6695-EQM-G00-EC-0002	General Engineering Specification For Non API Pumps	01
	1.2	6695-EQM-G00-EC-0006	General Engineering Specification For Centrifugal Blower	01
	1.3	6695-HVA-G00-EC-0001	General Engineering Specification For HVAC	01
	2		<b>Technical specifications</b>	
	2.1	6695-EQM-G00-EC-0012	Technical Specification For Non API Centrifugal Pumps	00
	2.2	6695-EQM-G00-EC-0014	Technical Specification For Blower	00
	2.3	6695-HVA-G00-EC-0001	Technical Specification For HVAC & pressurisation unit	00
<b>3</b>			<b>STATIC EQUIPMENT</b>	
	1		<b>General Engineering Specifications</b>	
	1.1	6695-EQS-G00-EC-0004	GES for Tanks / Hopper / bin	01
	1.2	6695-EQS-G00-EC-0007	GES for Painting	01
<b>4</b>			<b>PIPING</b>	
	1		<b>Drawings / Specifications</b>	
	1.1	6695-LAY-G00-LD-0001	Overall Plot Plan	00
	1.2	6695-LAY-552-LD-0001	Conceptual plot plan of Bauxite storage and handling	01
	1.3		Piping rerouting sketch	00
	1.4	6695-LAY-552-LD-0002	Sectional Elevation, sections 1-1,2-2,3-3,4-4	01
	1.5	6695-LAY-552-LD-0003	Sectional Elevation, section 5-5,6-6,7-7	01
	1.6	6695-LAY-552-LD-0004	Sectional Elevation, section 8-8,9-9,10-10,11-11	01
	1.7	6695-PIP-552-EC-0002	Technical specification of Bauxite storage, handling and secondary crushing	01
	2		<b>Piping Specification</b>	
	2.1	6695-PIP-G00-EC-0003	Piping Specification	02
	2.2	6695-PIP-G00-EC-0006	Technical Specifications For 3-D Model	00
	2.3	6695-PIP-G00-EC-0007	Technical Requirement for Pipes, Fittings, Flanges, Gaskets & Fasteners	01
	2.4	6695-PIP-G00-EC-0008	Technical Requirement for Valves	02
	2.5	6695-PIP-G00-EC-0010	Technical Requirement for Special Parts	02

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	3		<b>General Engineering Specification</b>	
	3.1	6695-PIP-G00-EC-0001	GES for Above ground steel piping	01
	3.2	6695-LAY-G00-EC-0001	GES for Plant Layout	01
	3.3	6695-PIP-G00-EC-0002	GES for Piping Flexibility Analysis	01
	3.4	6695-PIP-G00-EC-0004	GES for Material Handling Equipment	02
	3.5	6695-HES-G00-EC-0001	GES for Fire Fighting System (LSTK Packages)	02
	4		<b>Blank Datasheets of Major Equipments</b>	
	4.1		Datasheet for Belt Conveyor	00
	4.2		Datasheet for diverter / Prisms gate	00
	4.3		Data sheet for Apron feeder	01
	4.4		Data sheet for stacker	00
	4.5		Data sheet for Reclaimer	00
	4.6		Data sheet for Hammer mill (Crusher)	00
	4.7		Data sheet for Vibrating screen	00
	4.8		Data sheet for Motorized slide gate valve	00
	4.9		Data sheet for Magnetic separator	00
	4.10		Data sheet for EOT crane	01
	4.11		Data sheet for Hoist	01
<b>5</b>			<b>CIVIL</b>	
	1		<b>General Documents</b>	
	1.1	6695-CVC-G00-EC-0001	General Engineering Specification - Civil, Structural & Architectural	02
	1.2	6695-CVC-G00-EC-0002	Technical Specifications for Construction Works - Civil, Structural & Architectural	00
	1.3	6695-CVC-G00-EC-0003	Standard Instruction Design Calculation Documentation	01
	1.4	6695-CVC-G00-EB-0005	Standard Drawings - Architectural	00
	1.5	6695-CVC-G00-EB-0006	Standard Drawings - RCC	00
	1.6	6695-CVC-G00-EB-0007	Standard Drawings - Structural Steel	01
	2		<b>Reference Document</b>	
	2.1	6695-CVC-G00-DD-0001_Part A	Soil Investigation Report_DFR stage	00
		6695-CVC-G00-DD-0001_Part B	Geotechnological Investigation Report_April 2018	00
	2.2	6695-CVC-G00-DD-0002_Part A	Traverse & Topographic Survey (Contour Plan) Report	00
		6695-CVC-G00-DD-0002_Part B	Contour and Topographical Survey Report_April 2018	00

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6			<b>ELECTRICAL</b>	
	1		<b>General</b>	
	1.1	6695-ELT-G00-EC-0002	General Engineering Specification - Electrical	03
	1.2	6695-ELT-G00-FA-0001	Overall Key SLD	03
	1.3	6695-ELT-G00-FA-0003	Typical Detail Single Line diagram	02
	1.4	6695-ELT-526-LH-7001	Substation arrangement layout - Substation US-501 (LSTK)	01
	1.5	6695-ELT-G00-FA-0002	Block Diagram for earthing & lightning protection concept	00
	1.6	6695-ELT-G00-EC-0003	Guidelines For Electrical Equipment Numbering System	02
	1.7	6695-ELT-G00-FS-0001	Typical I/O list for SCADA	01
	1.8	6695-ELT-G00-EB-0001	Standard Formats for Lists (Consumer, cable, feeder, LCS, Operation mode list)	00
	1.9	6695-ELT-G00-EC-0004	Design Guidelines For Electrical Facilities	02
	1.10	6695-ELT-G00-FA-0004	Typical SCADA Block diagram for unit substation level networking	01
	2		<b>Technical Specifications of Electrical equipments</b>	
	2.1	6695-ELT-G00-EC-0006	Technical Specifications - Distribution Transformers (Energy Efficient)	00
	2.2	6695-ELT-G00-EC-0007	Technical Specifications - High Voltage Switchgear Panels	02
	2.3	6695-ELT-G00-EC-0009	Technical Specifications - Low Voltage Switchgear Panels	02
	2.4	6695-ELT-G00-EC-0010	Technical Specifications - Low Voltage Busduct	01
	2.5	6695-ELT-G00-EC-0011	Technical Specifications - High Voltage Induction Motors	00
	2.6	6695-ELT-G00-EC-0012	Technical Specifications - Low Voltage Induction Motors	00
	2.7	6695-ELT-G00-EC-0013	Technical Specifications - HV power factor improvement Capacitors	00
	2.8	6695-ELT-G00-EC-0015	Technical Specification for Un-Interruptible Power Supply System (UPS)	00
	2.9	6695-ELT-G00-EC-0016	Technical Specifications - VRLA	00
	2.10	6695-ELT-G00-EC-0017	Technical Specifications - Battery Charger	00
	2.11	6695-ELT-G00-EC-0018	Technical Specifications - High Voltage Cables	00
	2.12	6695-ELT-G00-EC-0019	Technical Specifications - Low Voltage Cables	00
	2.13	6695-ELT-G00-EC-0020	Technical Specifications - Miscellaneous Low Voltage Switchgear	00
	2.14	6695-ELT-G00-EC-0021	Technical Specifications - Local Control Stations	00
	2.15	6695-ELT-G00-EC-0022	Technical Specifications - Industrial Light Fittings	00
	2.16	6695-ELT-G00-EC-0024	Technical Specifications - LV Variable Frequency Drive	01

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	2.17	6695-ELT-G00-EC-0025	Technical Specifications - Goods cum Passenger Elevator/Lift	01
	2.18	6695-ELT-G00-EC-0026	Technical Specifications - EOT Crane	01
	2.19	6695-ELT-G00-EC-0027	Technical Specifications - Electrical Installation	00
	2.20	6695-ELT-G00-EC-0028	Technical Specifications - Lighting Transformers (Dry Type)	00
	2.21	6695-ELT-G00-EC-0029	Technical Specifications - Electric hoist	01
	2.22	6695-ELT-G00-EC-0030	Technical Specifications - GI Cable Trays	01
	2.23	6695-ELT-G00-EC-0031	Technical Specifications - High mast for lighting	00
	2.24	6695-ELT-G00-EC-0032	Technical Specifications - HV Variable Frequency Drives	02
	2.25	6695-ELT-G00-EC-0033	Technical Specifications - Bulk Material	00
	2.26	6695-ELT-G00-EC-0023	Technical Specifications - Neutral Grounding Resistor	00
	2.27	6695-ELT-G00-EC-0034	Technical Specifications - Distribution Transformer	00
	2.28	6695-ELT-G00-EC-0035	Technical Specifications - LV Power factor Capacitor	00
<b>7</b>			<b>INSTRUMENTATION</b>	
	1		<b>General</b>	
	1.1	6695-INS-G00-EC-0001	General Engineering Specification For Instrumentation & Control	02

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**VOLUME - 5**

**REFERENCE DOCUMENTS**

1			Licensors BEP and Other Reference Documents	
	1.1	Z02-231-1-SP-001	Technical Specification - Secondary crushing Unit	A
	2.1		Existing equipment drawing-BC_GA03_CONV_2 sheets	
	2.2		Existing equipment drawing-Crusher_Grindingsilos_exst_3 sheets	
	2.3		Existing equipment drawing-Existing_Reclm_CV06	
	2.4		Existing equipment drawing-STANDBY_HOPPER	
	3.1		Environmental documents-CTE Order	
	3.2		Environmental documents-Final EC letter dated 12-04-17	
	4.1		Topographical survey for Red Mud slurry pipe line & Pump House : Sheet1	
	4.2		Topographical survey for Red Mud slurry pipe line & Pump House : Sheet2	
	4.3		Topographical survey for Red Mud slurry pipe line & Pump House : Sheet3	