

Procurement of Goods

**National Competitive Bidding
(Volume 2)**

Procurement of:

**Supply of Primary Equipment for 220kV Transmission
Lines Sataplia & Adjameti**

NCB No: IDA/TGSP/G/NCB/05-2015

Purchaser: Georgian State Electrosystem

Project: Transmission Grid Strengthening Project

Project: P147348

Country: Georgia

Issued on: December 23, 2015

Volume 2

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- 2. Section III – Evaluation and Qualification Criteria**
- 3. Section VII – Schedule of Requirements**
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- 5. Invitation for Bids (IFB)**

Section II. Bid Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General
ITB 1.1	The reference number of the Invitation for Bids is : <i>IDA/TGSP/G/NCB/05-2015</i>
ITB 1.1	The Purchaser is: <i>JSC Georgia State Electrosystem (GSE)</i>
ITB 1.1	The name of the NCB is: <i>Supply of Primary Equipment for 220kV Transmission Lines Sataplia & Adjameti</i> The identification number of the NCB is: <i>IDA/TGSP/G/NCB/05-2015</i> The number and identification of lots (contracts) comprising this NCB is: <i>Not Applicable</i>
ITB 2.1	The Borrower is: <i>Georgia</i>
ITB 2.1	Loan amount: <i>US\$ 61.88 mln</i>
ITB 2.1	The name of the Project is: <i>Transmission Grid Strengthening Project</i>
ITB 4.1	Maximum number of members in the JV shall be: <i>Not Limited</i>
IITB 4.4	A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr .
	B. Contents of Bidding Documents
ITB 7.1	For <u>Clarification of bid purposes</u> only, the Purchaser's address is: Requests for clarification should be submitted through the Georgian E-Government Procurement System. Requests for clarification should be received by the Employer no later than: <i>10 days</i> prior to the deadline for submission of bids.
ITB 7.1	The Employer will promptly publish its response at the Georgian E-Government Procurement System.

	C. Preparation of Bids
ITB 10.1	The language of the bid is: <i>English</i> All correspondence exchange shall be in <i>English</i> language
ITB 11.1 (j)	The Bidder shall submit the following additional documents in its bid: <i>Bidders schedule of item by item commentary of technical compliance to specifications</i>
ITB 13.1	Alternative Bids <i>shall not be</i> considered
ITB 14.5	The prices quoted by the Bidder <i>shall not be</i> subject to adjustment during the performance of the Contract
ITB 14.6	Prices quoted for contract shall correspond at least to <i>100%</i> percent of the items specified for contract. Prices quoted for each item of a lot shall correspond at least to <i>100%</i> percent of the quantities specified for this item.
ITB 14.7	The Incoterms edition is: <i>2010</i>
ITB 14.8 (iii)	Final destination Place: <i>SS Kutaisi, SS Tskaltubo, SS Zestaponi</i>
ITB 15.1	The prices shall be quoted by the bidder in: <i>Georgian Lari (GEL)</i>
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): <i>Fifteen years</i>
ITB 17.2 (a)	Manufacturer's authorization is: <i>Required</i>
ITB 17.2 (b)	After sales service is: <i>Not Required</i>
ITB 18.1	The bid validity period shall be <i>90 (ninety)</i> days.
ITB 18.3 (a)	The bid price shall be adjusted by the following factor(s): <i>Not Applicable</i>
ITB 19.1	A Bid Security <i>shall not be</i> required. A Bid-Securing Declaration <i>shall be</i> required. The Bid-Securing Declaration shall be for the following period of time: <i>1 (one) year</i> starting on the date of the bid opening stated in ITB 25.1. Bidders are reminded that the format of the Bid-Securing Declaration should be in accordance with the form of Bid-Securing Declaration included in Section IV. Bid-Securing Declaration shall be valid for 28 days beyond the validity of the Bid (i.e., 90 days + 28 days = 118 days).

ITB 19.3 (d)	Other types of acceptable securities: <i>None</i>
ITB 19.9	If the Bidder incurs any of the actions prescribed in subparagraphs (a) or (b) of this provision, the Borrower will declare the Bidder ineligible to be awarded contracts by the Purchaser for a period of <u>1 (one)</u> year.
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: <i>Written Power of Attorney of the signatory.</i>
	D. Submission and Opening of Bids
ITB 21.1	<p>Bidders shall submit their bids electronically through Georgian E-Government Procurement System.</p> <p>Government procurement procedures SHALL NOT apply for this procurement. Bid submission and bid opening will take place electronically using Georgian E-Government Procurement System with certain modifications. Major modifications to the Georgian E-Procurement System are:</p> <ul style="list-style-type: none"> - Functionality of the three rounds of e-Reverse auction is removed. Rounds will not be applicable. - The estimated cost of the contract is disclosed in the E-Procurement system and bidders can submit a bid price, which could be below or above the estimated cost, however pricing the bid is the responsibility of the bidder, which shall be based on the current market prices and any other factors which may influence the pricing of the proposed works. <p>Please note that bidding is conducted under National Competitive Bidding (NCB) procedures as specified in the World Bank's Guidelines: Procurement of Goods, Works and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, January 2011, revised July 2014 ("Procurement Guidelines").</p>
ITB 21.2 and 21.3	<i>Not Applicable</i>
ITB 22.1	Bidders shall follow the electronic bid submission procedures of Georgian E-Government Procurement System.
ITB 22.1	Bidders <i>shall submit</i> their bids <i>electronically</i> through Georgian E-Government Procurement System
ITB 25.1	<p>ITB Clause 25.1 is modified to read the following:</p> <p>Bid opening will take place electronically using Georgian E-Government Procurement System with certain modifications. Major modifications to the Georgian E-Procurement System are:</p> <ul style="list-style-type: none"> - Functionality of the three rounds of e-Reverse auction is removed. Rounds will not be applicable. <p>The estimated cost of the contract is disclosed in the E-Procurement</p>

	<p>system and bidders can submit a bid price, which could be below or above the estimated cost, however pricing the bid is the responsibility of the bidder, which shall be based on the current market prices and any other factors, which may influence the pricing of the proposed works.</p> <p>The Minutes of the Bid Opening will be uploaded in the E-Procurement System following the bid opening.</p>
ITB 25.3	<p>The Letter of Bid and Price Schedules shall be initialed by representatives of the Purchaser conducting Bid opening.</p> <p><i>Not Applicable</i></p>
	E. Evaluation and Comparison of Bids
ITB 32.2(a)	<p>Bids will be evaluated for each item and the Contract will comprise the item awarded to the successful Bidder. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. An item not listed in the Price Schedule shall be assumed to be not included in the bid, and provided that the bid is substantially responsive, the average price of the item quoted by substantially responsive bidders will be added to the bid price and the equivalent total cost of the bid so determined will be used for price comparison</p>
ITB 32.4	<p>The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria:</p> <ul style="list-style-type: none"> (a) Deviation in Delivery schedule: <i>Not Allowed</i> (b) Deviation in payment schedule: <i>Not Allowed</i> (c) The availability in the Purchaser's Country of spare parts and after- sales services for the equipment offered in the bid: <i>No</i>
	F. Award of Contract
ITB 37.1	<p>The maximum percentage by which quantities may be increased is: <i>None</i></p> <p>The maximum percentage by which quantities may be decreased is: <i>None</i></p>

**Section III. Evaluation and Qualification
Criteria**

This Section contains all the criteria that the Purchaser shall use to evaluate a bid and qualify the Bidders. in accordance with ITB 32 and ITB 34, no other factors, methods or criteria shall be used.

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1. Evaluation (ITB 32)

1.1. Evaluation Criteria (ITB 32.4)

The Purchaser's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Clause 14.8, one or more of the following factors as specified in ITB 32.2(e) and in BDS referring to ITB32.4, using the following criteria and methodologies.

- (a) Delivery schedule. (as per Incoterms specified in the BDS)

The Goods specified in the List of Goods are required to be delivered before the final date, as specified in Section VII, Schedule of Requirements. No credit will be given to deliveries before the latest date, and bids offering delivery after the final date shall be treated as nonresponsive.

- (b) Deviation in payment schedule. *N/A*

- (c) Availability in the Purchaser's Country of spare parts and after sales services for equipment offered in the bid. *N/A*

An adjustment equal to the cost to the Purchaser of establishing the minimum service facilities and parts inventories, as outlined in BDS 32.6, if quoted separately, shall be added to the bid price, for evaluation purposes only.

- (d) Specific additional criteria. *N/A*

1.2. Multiple Contracts (ITB 32.4) – *N/A*

2. Qualification (ITB 34)

2.1 Qualification Requirements (ITB 34.1)

After determining the lowest-evaluated bid in accordance with ITB 33.1, the Purchaser shall carry out the post-qualification of the Bidder in accordance with ITB 34, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) Financial Capability

If Bidder is Manufacturer:

- (i) ***The successful Bidder*** shall furnish documentary evidence that the turnover during the last 3 years constituted for in average 48 million GEL (Georgian Lari).

If Bidder is not Manufacturer:

- (ii) ***The successful Bidder*** shall furnish documentary evidence that the turnover during the last 3 years constituted for in average 2,5 million GEL (Georgian Lari).

(iii) If a Bidder is not a manufacturer, but is offering the Goods on behalf of the Manufacturer under Manufacturer's Authorization Form (Section IV, Bidding Forms), the Manufacturer shall demonstrate the above qualifications a (i).

(b) Experience and Technical Capacity

If Bidder is Manufacturer:

- (i) **The successful Bidder** must demonstrate that it has at least 5 (five) years of experience in production and/or supply of goods as required under this IFB.
- (ii) **The successful Bidder must** have at least 2 successfully completed contracts for similar goods over the last 3 (three) years. References from beneficiaries on successful completion of contracts are mandatory.

If Bidder is not Manufacturer:

- (iii) **If a Bidder is not a manufacturer**, but is offering the Goods on behalf of the Manufacturer under Manufacturer's Authorization Form (Section IV, Bidding Forms), the Manufacturer shall demonstrate the above qualifications b(i).
- (iv) **The successful Bidder must** have at least 2 successfully completed contracts for similar goods over the last 3 (three) years. References from beneficiaries on successful completion of contracts are mandatory.

The details of Manufacturer's experience in production and/or supply of goods shall include:

- Name and address of Purchaser with contact details as e-mail address/phone no., etc.
- Contract no. and date.
- Equipment's/items ordered/supplied & installed with their respective quantities.
- Scheduled completion date and actual completion date.

Section VII. Schedule of Requirements

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Notes for Preparing the Schedule of Requirements

The Schedule of Requirements shall be included in the bidding documents by the Purchaser, and shall cover, at a minimum, a description of the goods and services to be supplied and the delivery schedule.

The objective of the Schedule of Requirements is to provide sufficient information to enable bidders to prepare their bids efficiently and accurately, in particular, the Price Schedule, for which a form is provided in Section IV. In addition, the Schedule of Requirements, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of contract pursuant to ITB 37.1.

The date or period for delivery should be calculated from the date from which the Supplier's delivery obligations start (i.e., contract signature) and until goods are delivered in the Final destination.

1. List of Goods and Delivery Schedule

Line Item N°	Description of Goods	Quantity	Physical unit	Final Destination Place as specified in BDS	Delivery Date*		
					Earliest Delivery Date	Final Date	Bidder's offered Delivery date [<i>to be provided by the bidder</i>]
1	220kV Circuit breaker with Steel support structures and anchor bolts	4	set	SS Kutaisi – 2 set SS TSkaltubo – 1 Set SS Zestafoni – 1 Set	N/A	180 days from the date of contract signature	
2	220 kV Disconnecting Switch with steel support structures- Type 1	10	set	SS Kutaisi – 5 set SS TSkaltubo – 3 Set SS Zestafoni – 2 Set	N/A	180 days from the date of contract signature	
3	220 kV Disconnecting Switch with steel support structures - Type 2	2	set	SS Zestafoni – 2 Set	N/A	180 days from the date of contract signature	
4	220 kV Disconnecting Switch with steel support structures - Type 3	4	set	SS Kutaisi – 2 set SS TSkaltubo – 1 Set SS Zestafoni – 1 Set	N/A	180 days from the date of contract signature	
5	Current Transformer Type 1	2 (6)	set unit	SS TSkaltubo – 1 Set SS Zestafoni – 1 Set	N/A	180 days from the date of contract signature	
6	Current Transformer Type 2	2 (6)	set unit	SS Kutaisi – 2 set	N/A	180 days from the date of contract signature	
7	Capacitor Voltage Transformer	4 (12)	set unit	SS Kutaisi – 2 set SS TSkaltubo – 1 Set SS Zestafoni – 1 Set	N/A	180 days from the date of contract signature	

8	Surge Arresters	4 (12)	set unit	SS Kutaisi – 2 set SS TSkaltubo – 1 Set SS Zestafoni – 1 Set	N/A	180 days from the date of contract signature	
9	Post Insulator	22	set	SS Kutaisi – 12 pc SS TSkaltubo – 4 pc SS Zestafoni – 6 pc	N/A	180 days from the date of contract signature	

*Delivery date will start from the contract signature date till the goods are delivered at the final destination place.

2. List of Related Services and Completion Schedule – *NOT APPLICABLE*

Service	Description of Service	Quantity ¹	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert physical unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert required Completion Date(s)]</i>

1. If applicable

3. Technical Specifications

Technical Data Sheets				
Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
1	220kV Circuit breaker with Steel support structures and anchor bolts			
1	Manufacturer			
	Standard		IEC 62271-100	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	
	Technical Characteristics			
	Number of breaks on pole		1	
	Nominal Voltage	kV	220	
	Rated voltage	kV	245	
	Arc-quenching		SF6	
	Rated frequency	Hz	50	
	Power frequency applied voltage test in dry weather and in rain/wet/			
	Relative to the ground and within poles	kV	460	
	Between disconnected contacts	kV	460	
	Lightning impulse withstand voltage			
	Relative to the ground and within poles	kV	1 050	
	Between disconnected contacts	kV	1 050	

Technical Data Sheets				
Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Rated current	A	2 000	
	Rated length of creepage distance	mm/kV	25	
	Short-circuit failure rated current	kA	40	
	Short-circuit peak point current	kA	100	
	Short-circuit duration	sec	3	
	Closing time	msec	< 55	
	Opening time	msec	17	
	Total break time	msec	40	
	Make-break time	msec	300	
	Nominal operating cycles		C-0,3s-CO-3m-CO Or CO-15s-CO	
	Control mode of circuit-breakers	pole	3	
	Type of insulator		porcelain	
	Phase-to-phase distance	mm	3500	
	height of supporting structure, at least	mm	2500	
	Supply/feed/ voltage of electric motors	V	=220	
	Supply/feed/ voltage of heating apparatus	V	~220	
2	220 kV Disconnecting Switch with steel support structures- Type 1			
	Manufacturer			
	Standard		IEC 62271-102	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	

Technical Data Sheets Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Technical Characteristics			
	Earthing Switch, side		1	
	Nominal Voltage	kV	220	
	Rated voltage	kV	245	
	Rated frequency	Hz	50	
	Rated current	A	2 000	
	Short time thermal current	kA	40	
	Electrodynamics stability current	kA	100	
	Short-time thermal current duration			
	for main circuit	sec	1	
	for earth circuit	sec	1	
	Switching-on (-off) time, less than or equal to	sec	10	
	.Control	pole	3	
	Electric drive	V	=220	
	Heating voltage	V	~ 220	
3	220 kV Disconnecting Switch with steel support structures - Type 2			
	Manufacturer			
	Standard		IEC 62271-102	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	
	Technical Characteristics			
	Earthing Switch, side		2	

Technical Data Sheets				
Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Nominal Voltage	kV	220	
	Rated voltage	kV	245	
	Rated frequency	Hz	50	
	Rated current	A	2 000	
	Short time thermal current	kA	40	
	Electrodynamics stability current	kA	100	
	Short-time thermal current duration			
	for main circuit	sec	1	
	for earth circuit	sec	1	
	Switching-on (-off) time, less than or equal to	sec	10	
	Control	pole	3	
	Electric drive	V	=220	
	Heating voltage	V	~ 220	
4	220 kV Disconnecting Switch with steel support structures - Type 3			
	Manufacturer			
	Standard		IEC 62271-102	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	
	Technical Characteristics			
	Earthling Switch		without	
	Layout/ arrangement		Diagonal	
	Nominal Voltage	kV	220	

Technical Data Sheets Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Rated voltage	kV	245	
	Rated frequency	Hz	50	
	Rated current	A	2 000	
	Short time thermal current	kA	40	
	Electrodynamics stability current	kA	100	
	Short-time thermal current duration			
	for main circuit	sec	1	
	for earth circuit	sec	1	
	Switching-on (-off) time, less than or equal to	sec	10	
	Control	pole	3	
	Electric drive	V	=220	
	Heating voltage	V	~ 220	
5	Current Transformer Type 1			
5.1	Manufacturer			
	Standard		IEC 60044	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	
	Technical Characteristics			
	Installation		Outdoor	
	Nominal Voltage	kV	220	
	Rated voltage	kV	245	
	Rated frequency	Hz	50	

Technical Data Sheets				
Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Rated primary current	A	1200/600	
	Rated secondary current	A	1	
	Current of dynamic stability	kA	100	
	Short-time thermal current (1 sec),	kA	40	
	.Power frequency test voltage	kV	460	
	Lightning impulse withstand voltage	kV	1050	
	Quantity of secondary winding		4	
	Protection class		IP55	
	Accuracy class and capacity of secondary windings			
	Core -1, Coefficient 1200/1, Accuracy class and capacity 0,5 – 30 VA			
	Winding -1, Coefficient 600/1, Accuracy class and capacity 0,5 – 30 VA			
	Winding -2,3,4, Coefficient 1200/1, Accuracy class and capacity 10P – 50 VA			
	Winding -2,3,4, Coefficient 600/1, Accuracy class and capacity 10P – 50 VA			
	Ratio change - must be possible to change the ratios of the primary and secondary circuit		yes	
6	Current transformer - Type 2			
6.1	Manufacturer			
	Standard		IEC 60044	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	

Technical Data Sheets Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Technical Characteristics			
	Installation		Outdoor	
	Nominal Voltage	kV	220	
	Rated voltage	kV	245	
	Rated frequency	Hz	50	
	Rated primary current	A	1200/600	
	Rated secondary current	A	5	
	Current of dynamic stability	kA	100	
	Short-time thermal current (1 sec),	kA	40	
	Power frequency test voltage	kV	460	
	Lightning impulse withstand voltage	kV	1050	
	Quantity of secondary winding		4	
	Protection class		IP55	
	Accuracy class and capacity of secondary windings			
	Winding -1, Coefficient 1200/5, Accuracy class and capacity 0,5 – 30 VA			
	Winding -1, Coefficient 600/5, Accuracy class and capacity 0,5 – 30 VA			
	Winding -2,3,4, Coefficient 1200/5, Accuracy class and capacity 10P – 50 VA			
	Winding -2,3,4, Coefficient 600/5, Accuracy class and capacity 10P – 50 VA			
	Ratio change - must be possible to change the ratios of the primary and secondary circuit		yes	
7	Capacitor Voltage Transformer			
7.1	Manufacturer			
	Standard		IEC 60044	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	

Technical Data Sheets				
Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	
	Technical Characteristics			
	Installation		Outdoor	
	Rated voltage	kV	220	
	Maximum operating voltage	kV	252	
	Rated frequency	Hz	50	
	Specific length of creepage distance	mm/kV	≥ 22,5	
	Length of insulation creepage distance	mm	≥ 5670	
	Sparking distance/discharge gap/,	mm	≥ 1800	
	Winding – 1, measuring, voltage, V –100/√3 (winding sealed) Accuracy class and capacity, VA – 0,2/120			
	Winding – 2, metering, voltage, V –100/√3 Accuracy class and capacity, VA – 3P/600			
	C ₁	pF	≥ 8500	
	C _r	pF	≥ 8000	
	Total thermal capacity	VA	1500	
	Voltage transformer box should be equipped with fuse links			
	Voltage transformers box should be sealed			
8	Surge Arrester			
9.1	Manufacturer			
	Standard		IEC 60099-4	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	

Technical Data Sheets Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	
	Technical Characteristics			
	Installation		Outdoor	
	Rated voltage	kV	215	
	Maximum expected voltage	kV	245	
	Rated frequency	Hz	50	
	Permitted values of voltage in time			
	10 sec	kV	264	
	1 sec	kV	445	
	Residual voltage when impulse current is equal to 0,5 kA and with wave front 30/60 mcsec	kV	432	
	Residual voltage when impulse current $I_{max} = 5$ kA and with wave front 8/20msec	kV	480	
	Specific length of creepage distance	mm	≥ 7000	
9	Post Insulator			
	Manufacturer			
	Standard		IEC 60273	
	Type tested		yes	
	Climatic Conditions			
	Maximum Ice thickness	mm	20 (Third region)	
	Maximum Wind velocity –	m/s	40 (Fifth region)	
	Maximum ambient air temperature	°C	+40	
	Minimum ambient air temperature	°C	-25	
	Seismic Level			
	Seismic Scale (MSK)		8	
	Richter Magnitude Scale –		5.3 - 6	

Technical Data Sheets				
Procurement Of Primary equipment for SS Kutaisi, SS Zestafoni and SS Tskaltubo				
BIDDER'S / CONTRACTOR'S DATA – MINIMUM REQUIREMENTS		Bidder / Contractor		
No.	Description	Unit	Required	Offered
1	2	3	4	5
	Technical Characteristics			
	Installation		Outdoor	
	Rated voltage	kV	220	
	Maxim Min. failing load – Bending	kN	6	
	Min. failing load – Bending moment underhung	kNm	4	
	Lightning impulse withstand voltage dry kV peak value	kV	1050	
	Power frequency withst. voltage. wet	kV	460	
	Specific length of creepage distance	mm	≥6300	
10	Supporting documents for all Lots			
	– Full technical specification		Yes	
	– Operational manual		Yes	
	– Outline drawing of each Equipment type		Yes	
	– Test report for the tested Equipment		Yes	

4. Drawings

These Bidding Documents includes ***no*** drawings.

5. Inspections and Tests

The goods shall be inspected by manufacturer.

Upon completion of the inspection and testing of the Goods or components thereof, Supplier shall submit to Purchaser, a **factory inspection report** with a detailed description of the results indicating that the Goods are in compliance with the Technical Specifications

Section IX. Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(i)	The Purchaser's country is: <i>Georgia</i>
GCC 1.1(j)	The Purchaser is: <i>JSC Georgia State Electrosystem (GSE)</i>
GCC 1.1 (o)	The Final Destinations Place are: <i>SS Kutaisi, SS Tskaltubo, SS Zestafoni</i>
GCC 4.2	The version edition of Incoterms shall be <i>2010</i>
GCC 5.1	The language shall be: <i>English</i>
GCC 8.1	<p>For <u>notices</u>, the Purchaser's address shall be:</p> <p>Attention: <i>Guranda Machaidze, Procurement Specialist</i></p> <p>Address: <i>2 Baratashvili Str,</i></p> <p>Floor/ Room number: <i>Floor III, Room 304</i></p> <p>City:<i>Tbilisi</i></p> <p>ZIP Code: <i>0105</i></p> <p>Country: <i>Georgia</i></p> <p>Telephone: <i>(995 32) 251 02 64</i></p> <p>Facsimile number: <i>(995 32) 298 37 04</i></p> <p>Electronic mail address: maya.pitskhelauri@gse.com.ge; guranda.machaidze@gse.com.ge;</p>
GCC 9.1	The governing law shall be the law of: <i>Georgia</i>
GCC 10.2	<p>The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows:</p> <p>In the case of a dispute between the Purchaser and a Supplier, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Purchaser's country.</p>

GCC 13.1	<p>Details of Delivery and other Documents to be furnished by the Supplier are:</p> <ol style="list-style-type: none"> 1. Two originals and three copies of the Supplier's invoice, showing the Purchaser as a Party responsible for payments, the Contract number, the Goods description, lot numbers, quantity, unit price and total amount. Invoices must be signed in original and stamped or sealed with the company stamp/seal, 2. Electronic copy of waybill (If Goods Forwarded by Supplier / Manufacturer by rail/truck), 3. Three copies of Packing list identifying contents of each package, 4. One original and three copies of the Manufacturer's/Supplier's warranty certificate, 5. One original and three copies of the Certificate of origin covering all items supplied, 7. Certified copied of Certificates of Conformity to the standards mentioned in the Section VI, Technical Specifications, if required, of Georgia. <p>The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p>
GCC 15.1	<p>The prices charged for the Goods supplied <i>shall not</i> be adjustable.</p>
GCC 16.1	<p>The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <p>Payment for Goods and Services supplied from within the Purchaser's country shall be made in Georgian Lari (GEL), as follows:</p> <ol style="list-style-type: none"> (i) Advance Payment: Twenty (20) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract against a simple receipt and a bank guarantee for the equivalent amount and in the form provided in the bidding documents or another form acceptable to the Purchaser. (ii) On Acceptance: Payment of eighty (80) percent of the Contract Price shall be made within thirty (30) days following receipt of the Goods, upon submission of claim supported by the acceptance certificates issued by the Purchaser, as per delivery schedule specified in Section VII, Schedule of Requirements.
GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 60 days.</p> <p>The interest rate that shall be applied is 5% per annum.</p>
GCC 18.1	<p>A Performance Security <i>shall be required</i>.</p>

	Performance Security shall be: <i>10% of the Contract Price.</i>
GCC 18.3	<p>If required, the Performance Security shall be in the form of: <i>Bank Guarantee.</i></p> <p>If required, the Performance Security shall be denominated in the currency of the <i>Contract Price.</i></p>
GCC 18.4	Discharge of the Performance Security <i>shall</i> take place: <i>Not Applicable</i>
GCC 23.2	The packing, marking and documentation within and outside the packages shall be: <i>standard packing&marking</i>
GCC 25.2	Incidental services to be provided are: <i>Operational and Maintenance manuals</i>
GCC 26.1	<p>The inspections and tests shall be:</p> <p>Supplier shall notify Purchaser at least 20 days prior to the beginning of any tests to be performed on the Goods. Purchaser reserves the right to observe during the course of a normal working day the process of manufacturing, quality assurance standards and testing of the Goods at the manufacturing plant. Inspection by the Purchaser at the manufacturing site shall not disturb Supplier's normal production procedure. The Purchaser will bear the cost of travel and stay of his experts during the inspections and tests.</p> <p>The goods shall be inspected by manufacturer. Upon completion of the inspection and testing of the Goods or components thereof, Supplier shall submit to Purchaser, a factory inspection report with a detailed description of the results indicating that the Goods are in compliance with the Technical Specifications</p>
GCC 26.2	<p>The Inspections and tests shall be conducted at:</p> <p>First test shall be conducted at Manufacturer's plant and final test at Goods' final destination site.</p>
GCC 27.1	The liquidated damage shall be: 0.5% per week
GCC 27.1	The maximum amount of liquidated damages shall be: 10%
GCC 28.3	<p>The period of validity of the Warranty shall be:</p> <p>For items # 1-4 specified in the List of Goods and Delivery Schedule – at least <i>24 months</i></p> <p>For items # 5-9 specified in the List of Goods and Delivery Schedule – at least <i>18 months</i></p>

	<p>For purposes of the Warranty, the place(s) of final destination(s) shall be: Final project site destination as stated in the list of goods and delivery schedule.</p>
GCC 28.5	<p>The period for repair shall be: <i>20 days</i> The period for replacement shall be: <i>4 months</i></p>