**Annex N2**

**Technical Assignment**

1. **Purchase of power cells for # 8 and # 9 850 kW engines in 6 KW** [**distributor injection pump**](https://techdict.ge/ka/word/distributor%20injection%20pump/) **of “Bagebi” Pumping Station**

Size (cm)

* + Height: 200 (± 5)
	+ Width: 90 (± 5)
	+ Depth: 100 (± 5)
* The distribution box should be equipped with the following devices:
	+ switch: 6-10 kV voltage, 400 amps, with stationary grounding
	+ Line switch: 6-10 kV voltage, 400 amps, with stationary grounding
	+ Power transformer: ТПЛ-10, coefficient - 150/5, in two phases
	+ Vacuum circuit breaker: BB / TEL 10-20 / 630 with protection and control equipment. Nominal voltage - 10 kV. Rated current - 630 A.
	+ Relay protection: use REST-02 type relay.
	+ Voltage limiter: OPN / TEL in all three phases.
	+ Power Zero-sequence current transformer: ТЗРЛ-150
* Must be new, in service
* Warranty: 2 years
* Must submit: Certificates of compliance with the standard of used equipment, factory measurement protocols (on circuit breakers and power transformers)
* Delivery time: 45 days
1. **Purchase of power cells for 800 kW motors in the 6 kV voltage distribution device of the pumping station "Bakhtrioni"**
* (Size (cm)
	+ Height: 230 (± 5)
	+ Width: 100 (± 5)
	+ Depth: 100 (± 5)
* The distribution box should be equipped with the following devices:
	+ Jump switch: 6-10 kV voltage, 400 amps
	+ Power transformer: ТПЛ-10, coefficient - 100/5, in two phases
	+ Vacuum circuit breaker: BB / TEL 10-20 / 630 with protection and control equipment. Nominal voltage - 10 kV. Rated current - 630 A.
	+ Relay protection: use REST-02 type relay.
	+ Voltage limiter: OPN / TEL in all three phases
	+ Zero-sequence current transformer: ТЗРЛ-150
* Must be new, in service
* Warranty: 2 years
* Delivery time: 45 days
* Certificates of compliance with the standard of used equipment, factory measurement protocols (on circuit breakers and power transformers)
1. **630 kW capacity transformer substation with 1000 kW capacity transformer substation located at "Funicular I" pumping station.**

Transformer substation settings and parameters:

* Capacity: 1000 kW
* Nominal voltage on high voltage side: 6 kV
* Switching device on high voltage side – 1
	+ Load breaker: ВНАП 10 / 630-20-У2 - 1 piece
* Nominal voltage on the low voltage side: 0.4 kV
* Switching device on low voltage side -1

- Power automatic circuit breaker: Siemens 1600a - 1 piece

* Power transformer:

- Capacity: 1000 kW

- Voltage: 6 / 0.4 kV

- Scheme and connection group: Y / Y 0

* Automatic circuit breakers for 0.4 kV output lines (rated current, total quantity) - Siemens 630a (regular) - 3 pieces
* High voltage switch set - 3 pieces (6 kV)
* Power transformer: 2000/5 - 3 pieces
* Voltage and current control devices: Yes, all three phase voltage control
* High voltage guard: rated current - 140 A, - 3 pieces
* Must be new, in service
* Warranty: 3 years
* Certificates of compliance with the standard of used equipment, factory measurement protocol (on power transformer)