

Draft Agreement of the State Procurement

Contract terms can undergo clarification/modification at the time of the contract signature with the tender winner

Agreement #

Batumi

----- Year

On the one hand, The Ministry of Finance and Economy of Ajara Autonomous Republic, represented by the First Deputy Minister Mr. Tornike Kutchava, based on the authority granted by the decree N01-01-6/75, issued on 03 July 2019 by the current Minister of Economy and Finance (hereinafter called the „Buyer“) and on the other hand -----, represented by ----- (hereinafter called the „Supplier“) based on the results of an electronic tendering process (Tender Announcement NAT-----,(CPV) classifier code 45200000) conclude the agreement of state procurement on the following:

1. Price and Subject of a Contract

- 1.1. The subject of the present contract is delivery, project engineering, assembling, technical assistance, and commissioning (load test) of the equipment for FIXED GRIP CHAIRLIFT TYPE 4-CLF in the village of Gomarduli, Shuakhevi municipality. The equipment and services shall be under the general specifications and performance described in the attached Annexes.
- 1.2. The total cost of contract is -----GEL.
- 1.3. The technical assignment-Annex 1 and plan-schedule-Annex 2 are the integral parts of the current contract.
- 1.4. The total cost of the contract includes expenses related to the implementation of the works under the current contract, also all duties, charges, and taxes that may arise to the Supplier according to the Georgian legislation.

2. Monitoring Process

- 2.1. The Buyer or appointed legal representative is eligible to carry out technical supervision of the implementation of contract terms.
- 2.2. Paragraphs of the current article can not relieve the supplier from the other obligations imposed under this contract.
- 2.3. The fulfillment of the supplier's contractual obligations will be monitored by the working group appointed by the Ministry of Finance and Economy of Ajara Autonomous Republic (will be specified by the time of contract signature).

3. Timeframe, Place of Delivery and Other Terms

- 3.1. The Supplier should execute and complete Civil works no later than ---- from the signing of the contract.
- 3.2. The supplier undertakes to perform contract terms in compliance with the tender documents and all the standards and rules in force in Georgia.
- 3.3. The supplier is responsible to supply the buyer with Mechanical and electrical equipment (hereinafter EQUIPMENT) covered by the present Contract and in compliance with the technical specifications detailed in ANNEX 1.
- 3.4. The Equipment shall be packed in the customary manner suitable for long distance transportation by sea and land until it has reached the destination in order to prevent its being damaged under normal conditions and shall be sent along with installation and service manuals and technical drawings.
- 3.5. The equipment remains the supplier's property until it is transferred to the buyer and signed the final acceptance and delivery act.
- 3.6. All risks and obligations related to the construction transfer to the buyer after the commissioning of the construction for public use and the signing of the final acceptance and delivery act confirming the installation.

- 3.7. The Supplier is responsible to conduct all the researches and civil works, also for the assembling, installation and adjustment of the equipment up to the commissioning of the installation, including full load testing and training of the buyer's personnel as described in the ANNEX 1 (hereinafter WORKS).
- 3.8. The supplier shall provide adequate on-the-job training for the assigned service and maintenance personnel in the course of commissioning under the conditions set out in Annex 1. The supplier shall arrange relevant instructions to the service and maintenance brigade concerning the proper usage of equipment and maintenance services. The instructions should be in the form of practical on-the-job training and conducted in Georgian and English. The supplier undertakes to invite qualified personnel to Georgia in order to provide practical and theoretical training modules. after completion of training sessions, the buyer shall conduct informal testing and approve the results.
- 3.9. If the Buyer gives a valid claims or notices in reference to the quality and amount of the obligations fulfilled by the SUPPLIER, the SUPPLIER shall eliminate all flaws for its own expense in a period which shall be agreed by the Parties. Upon eliminating of all flaws the Parties shall sign the Handing/Taking-Over Protocol within the period of 1 month (with the participation of the local authority or expertizing organization) which will confirm the fulfillment of all SUPPLIER's obligations according to the present Contract. All costs related to the costs of returning the equipment, replacing it and providing expert services shall be reimbursed by the supplier.
- 3.10. Installation , test run and load testing must be performed by the specialists invited by the Supplier, with the participation of independent international (TUV, Bureau Veritas, etc.) as well as Georgian accredited organizations. The field of accreditation must cover the requirements defined by the legislation of Georgia. All the costs related to inspection / examination must be covered by the Supplier;
- 3.11. The supplier is obliged to secure construction site safety rules and regulations;
- 3.12. The Supplier is obliged to obtain all the necessary construction permits or agreement documents to ensure smooth-running construction process (Arranging a trench on the street / road pavement, temporary electricity and water supply, blocking the street if necessary, temporary use of sewerage and drainage canals, arranging a transport scheme for the supply / exit of materials on the construction site, if necessary, etc.

4. Insurance and guarantees

- 4.1. The Supplier is responsible for the delivery of the equipment to the destination: village Gomarduli, Shuakhevi municipality, Ajara, Georgia;
- 4.2. The supplier shall ensure the property owner's liability insurance until the date of final acceptance and delivery act signature.
- 4.3. The Supplier is responsible for the transportation process including any transit taxes on the way to Georgia and its appropriate insurance.
- 4.4. The Supplier shall be responsible for suitable packing for surface transportation.
- 4.5. The Supplier shall be responsible for appropriate insurance of the Equipment transportation and delivery up to the site (CIP village Gomarduli, Ajara, Georgia).
- 4.6. The Supplier shall be responsible for and shall pay all expenses relating to any disease contracted or injury sustained by the SUPPLIER's employees when they are acting within the scope of the present Contract.
- 4.7. The Supplier warrants that the Equipment shall be made of first class materials, executed with first class workmanship, brand new and unused, and that, when installed, it shall comply in all respects with the quality standards and specifications set forth in the present Contract and the Annexes attached hereto and to EU ropeway regulations respectively CEN-norms as far as this is applicable for this project and shall be capable of continuous operation at maximum speed and capacity.
- 4.8. The Equipment, with the exception of the seals and wear parts, is guaranteed for a period of 2 (two) year from the date of signing acceptance and delivery act, This guarantee consists of the pure and simple exchange of parts recognized as being defective or of their reconditioning in a workshop recommended or accepted by the Supplier in the shortest possible time.
- 4.9. All rejected defective goods or parts transfer to the supplier at the supplier's expense.

- 4.10. The guarantee shall become null and void and the Supplier shall be discharged of any liability: a) If parts have been replaced by the Buyer by unapproved parts of other origin; b) If the lift has been transformed or modified in any manner whatsoever without the approval of the SUPPLIER; c) If the damage is due to negligence, incorrect use, incorrect maintenance; d) If the operating and inspection logbooks are not kept up to date; e) If incidents are due to natural causes, including but not limited to avalanches, landslides or subsidences, excessive accumulation of snow or ice, earthquakes or tornadoes;
- 4.11. The Supplier's liability shall be expressly limited to the guarantee defined above. As from the commissioning of the equipment the buyer shall be solely liable in the case of any accident and shall be responsible for obtaining the necessary insurance cover.

5. Health and Safety Issues

- 5.1. The Supplier is responsible for the ensure safe operation of the construction site and health care under applicable law and project documentation.

6. Cultural Heritage, Environmental and Social Impact Issues

- 6.1. The Supplier shall be responsible for all possible negative impacts that the current works may have on the environment, social environment, cultural heritage and society.
- 6.2. The Supplier and the Subcontractor (if any) are required to comply with the requirements and provisions of applicable law relating to environmental, social, cultural heritage, and community impact issues (which in turn include the prevention of environmental pollution, the protection of cultural heritage, etc.).
- 6.3. The supplier is obliged to make every effort to protect the adjacent construction environment, social environment, cultural heritage and society from negative impacts until the final acceptance and delivery act of the construction is signed.

7. Environmental Pollution

- 7.1. Removing all kinds of construction waste and garbage generated during the construction process is the supplier's obligation. The supplier is obliged to obey the buyer's request regarding cleaning measures during the works.
- 7.2. Upon completion of the works, the Supplier shall immediately remove the equipment, materials, scaffolding, temporary structures, and similar structures belonging to the supplier and the Subcontractor (if any) from the construction site.
- 7.3. The Supplier undertakes to protect the soil and water from contamination caused by (but not limited to) spills or leaks of fuel, engine lubricants, paints, primers, solvent spills, waste, rubbish, or other materials, which are owned or controlled by the Supplier or Subcontractor. Buyer's protection from any kinds of third party claims incurred by the supplier's fault or omission, negligence, or violation of the rights of third parties is the supplier's obligation.
- 7.4. The supplier undertakes that the construction and demolition waste (hazardous and non-hazardous) must be separated and properly collected, registered, and stored until it is transferred to the licensed waste recycling organization.
- 7.5. Any damage or loss caused to a third party's property through the supplier's fault shall be immediately restored to its original condition and/or replaced by a similar one and/or reimbursed at the appropriate cost.

8. Rules of Acceptance of Procurement Object

- 8.1. Acceptance and delivery act of the work performed shall be signed based on the technical assignment after the proper examination, and a positive expert conclusion presentation.
- 8.2. Acceptance and delivery will be conducting by the working group of the Ministry of Finance and Economy of A.R. (will be specified by the time of signing the agreement).
- 8.3. The date of submission of the acceptance act and related documents shall be the date of their official submission to the legal address of the buyer.

9. Terms of Payment

- 9.1. Payment will be made within 10 (ten) working days after the acceptance and delivery act submission and the tax invoice concluded between the supplier and the representative of the Procuring Entity.
- 9.2. The Supplier is entitled to submit a prior written request to the buyer for the advance payment.
- 9.3. The Supplier is obliged to submit a bank guarantee to receive an advance payment. The guarantee must be submitted in national currency - GEL, from a banking institution licensed by the National Bank of Georgia, or from a foreign banking institution that will be reinsured by a banking institution licensed by the National Bank of Georgia. The guarantee can also be submitted by an insurance company licensed by the Insurance State Supervision Service of Georgia. The unconditional and unclaimed bank guarantee must entitle the buyer to receive the same amount of the advance payment upon the first request from the bank guarantee institution, without any justification or documentation submitted by the buyer. The guarantee must be lettered on the title sheet of the guarantee institution, signed by an authorized person, and stamped. The validity period of the bank guarantee should be 60 calendar days longer than the completion period of the works stipulated in the contract.
- 9.4. The buyer will pay the advance amount within 10 (ten) working days after the submission of the bank guarantee and the advance tax invoice by the supplier;
- 9.5. In case of contract extension (regardless of the reason), the supplier has 5 (five) working days to extend the unconditional and unclaimed bank guarantee to uphold paragraph 9.3 demands after the submission of the buyer's written request.
- 9.6. If the contract is terminated, the buyer is entitled to reimburse the unused advance from the bank guarantee.
- 9.7. The total advance payment to the supplier shall not exceed 50% of the total contract value.
- 9.8. The buyer will pay no more than 2 000 000 Gel from 2021 budget year, the rest will be covered in 2022. In the case of free funds existence in the 2021 budget, the buyer accomplishes additional payment.
- 9.9. In the case of identified defective works, as well as fines or penalties imposed to the supplier, the buyer shall not reimburse contract payment until the drawbacks eliminate and the fines/fines (if any) are paid to the budget, otherwise it will be withheld from the amount to be reimbursed.

10. Performance Bank Guarantee

- 10.1. The supplier provides performance bank guarantee with amount of-----GEL, issued on-----year, to ensure fulfillment of the contract obligations.
- 10.2. The amount of bank guarantee equals to 2.5% of the total contract value, namely----- Gel. Bank Guarantee is valid from---- till-----.
- 10.3. The bank guarantee mentioned in paragraph 10.1 must be an unconditional and irrevocable obligation of the bank to reimburse the whole amount of the bank guarantee to the buyer. Performance Bank Guarantee should compensate any losses to the buyer caused by the supplier, namely: non-compliance with the contract terms, or improper performance, or contract termination, or defects detected after the completion of works, and other cases foreseen by the contract.
- 10.4. Payment made with a bank guarantee to ensure the performance of the contract does not release the supplier from the obligation to compensate the damage (loss) caused to the buyer by non-performance of the contract.
- 10.5. In case of contract extension (regardless of reason) the supplier is obliged to extend the bank guarantee within 5 working days after the buyer's written request to comply with the period specified in paragraph 6.3 of the tender documentation.
- 10.6. In case of non-fulfillment or improper fulfillment of the obligation under this contract by the Supplier, the buyer is entitled to fully use the bank guarantee , whether the contract is terminated or non-terminated.

11. Contract Price

- 11.1. Changes to the contract value parameters are not permitted if the total value of the contract increases or the terms of the contract for the Procuring Entity deteriorates.

12. Amendments to Contract

- 12.1. All the changes, appendices, additions to the present Contract are considered valid only if they are made in the written form and duly signed by authorized representatives of both parties.
- 12.2. If there is a necessity of making changes to contract terms due to any unforeseen circumstances, the initiator is obliged to notify the other party in writing form.
- 12.3. Any kind of changes, which will lead to the deterioration of buyer's rights is forbidden, except for the cases provided for in Article 398 of the Civil Code of Georgia, the Law of Georgia on State Procurement, and the requirements of this Regulation.
- 12.4. Any changes in the contract terms must be presented as an additional annex to the contract, which will be considered an integral part of the contract.

13. Transfer of Rights

- 13.1. The Supplier may not assign or otherwise transfer any of its rights or obligations under this Agreement without obtaining the prior written consent of the buyer.

14. Subcontractors

- 14.1. The Supplier is authorized to ensure the performance of the work with the participation of the subcontractor(s);
- 14.2. The Supplier has the right to carry out the work through the subcontractor (s) only upon notification of the agreement with the buyer. To qualify for this right, the Supplier must submit a contract with the subcontractor (s);
- 14.3. The supplier is responsible for the work delivery by a subcontractor (s).
- 14.4. Buyer will pay remuneration for the work performed by the subcontractor (s) to the Supplier under the terms of this Agreement;
- 14.5. A subcontract entered into by a party (main contractor) to a contract (main contract) shall not release the supplier from its obligations under the contract.

15. Consequences of Non-Compliance with the Contract

- 15.1. The supplier shall pay to the buyer a delayed delivery penalty calculated at 0.2% per day of the total value of the contract for each calendar day of delay.
- 15.2. If the Supplier terminates or refuses to provide services to the buyer, the Supplier shall pay a penalty of 5% of the total cost of a contract.
- 15.3. If the supplier violates contract terms, under article 16 the buyer has the right to terminate the contract and use the bank guarantee to ensure the fulfillment of the contract.

16. Common Grounds for Contract Termination

- 16.1. Under the legislation of Georgia, the Purchaser has the right to terminate the contract in advance if the Supplier does not fulfill (violates) the obligations under this contract, including: 1. The supplier failed or did not comply with the requirements set out in the defect rectification notice; 2. the supplier violates the terms specified in the project documentation during the implementation process; 3. The amount of the penalty to be paid by the supplier will exceed 5% of the total contract value; 4. The Supplier fails to ensure the extension of the terms of the contract performance guarantee and/or the advance bank guarantees, the validity period of which must coincide with the period specified in clauses 9.3 and 10.5 of the agreement; 5. If a buyer becomes aware that the data submitted by the supplier's condition, qualifications, and experience and the data supporting documents turn out to be false; 6. In case of insolvency, bankruptcy case, or other similar proceedings against the supplier; 7. Due to its fault, the supplier was lagging in the works envisaged by the Schedule, and the supplier was not able to fulfill the obligations under the Schedule within the period specified in the notice due to receiving the Proper Notice;

- 16.2. The buyer and supplier can terminate a contract by mutual consent at any stage of its duration.
- 16.3. In the case of contract termination, supplier is obliged to leave the site within the reasonable time, ensuring security of construction facility.
- 16.4. The Supplier is obliged to compensate the buyer and all third parties within 1 (one) month period if the contract is terminated as a result of non-fulfillment or improper fulfillment of his/her contract obligations.

17. Force Majeure

- 17.1. Failure to comply with the contract terms will not lead to penalties if the delay in performance is a result of force majeure.
- 17.2. Force Majeure is understood to be any act or event which is either unforeseeable or, if foreseeable, is beyond the SUPPLIER's control, and which could impede the execution of the present Contract, such circumstances are war or natural disasters, epidemics, quarantine and embargo on the supply of goods, a sharp reduction in budget allocations.
- 17.3. The party which puts forward the circumstances referred to hereinabove shall without delay advise the other party in writing of their intervening as well as of their cessation of the event constituting the situation of Force Majeure. If the other party does not reply, this can be considered, that fulfillment of contractual obligations continues independently of the circumstances of force majeure.

18. Resolving Disputes

- 18.1. The parties shall try to find an amicable way to resolve any kind of disputes, including disputes arising between them in connection with the Contract or any other related component.
- 18.2. In the event Parties fail to reach an agreement within 30 (Thirty) days from the notification of such dispute by one Party to another, dispute shall be referred to Batumi city Court.

19. Applicable law

- 19.1. The contract is concluded in accordance with the legislation of Georgia and will be interpreted in accordance with the legislation of Georgia.

20. Taxation

- 20.1. Non-resident supplier shall be responsible for the payment of all taxes, fees and other charges related to the working performed and which are payable within Georgia and out.
- 20.2. Resident supplier shall pay all duties, charges, taxes according to legislation of Georgia, unless otherwise conditions are provided in accordance to this contract.

21. Effective Date of Contract

- 21.1. The present contract is valid from the date of signing to -----, 20---- included.

22. Additional Conditions

- 22.1. Neither of the parties is entitled to assign its rights and obligations under the present Contract to a third party without written consent of the other Party.
- 22.2. The language of the contract is Georgian. All correspondence relating to the present Contract shall be written in Georgian.
- 22.3. Any notice given by one party to the other pursuant to the Contract shall be sent in writing or by /e-mail. The parties shall notify each other of any changes in the faxes or addresses given below no later than within 5 working days of their changing. The notices and announcements shall be considered to be forwarded to the

other Party properly if they are forwarded to the below mentioned addresses and emails if there is no notice of their change.

22.4. All the changes, appendices, additions to the present Contract are considered valid only if they are made in the written form and duly signed by authorized representatives of all parties.

23. Permanent Addresses and Requisites of the Parties

<u>„BUYER“</u>	<u>„SUPPLIER“</u>
Ministry of Finance and Economy Autonomous Republic of Ajara, Georgia	
Tel: (422) 27-35-10	
119, M. Komakhidze str. Batumi, Ajara	
ID - 245429200	
First Deputy Minister	
Tornike Kutchava	

ANNEX 1 – Technical Task

Lift Gomarduli - Fixed-grip 4-passenger Chair lift

Specifications

Top Elevation (Platform)	1284 Meters
Bottom Elevation (Platform)	1157 Meters
Vertical Rise	127 Meters
Horizontal Length	700 Meters
Inclined Length	N/A
Average Slope	N/A
Initial Uphill Rated Capacity	600 Passengers/Hour
Maximum Uphill Rated Capacity	1000 Passengers/Hour
Downhill Rated Capacity	100%
Rope Speed	TBD by manufacturer (Meters/seconds)
Trip time	TBD by manufacturer
Carrier Interval (Initial)	TBD by manufacturer
Carrier Interval (Ultimate)	TBD by manufacturer
Drive machinery	
Location	Bottom
Rotation CCW (Counter Clockwise) or CW(Clockwise)	CW(Clockwise); Left side goes UP
Type	Electric
Evacuation	yes
Tensioning system	
Location	Top or Bottom TBD by Manufacturer
Type	Hydraulic
Gearbox	

Heater	Yes
Carriers	
Type of Carrier	Chair.
Carrier Capacity	4 Passengers
Grip	Fixed
Carrier Parking Location	NO
Operator Huts	Yes (Made in EU)
Additionally have to be include	
<ul style="list-style-type: none"> * Control cable and Fiber Optic cables have to be in the air. * All responsibility for underground infrastructure, including gas, water etc. that may be damaged during construction, must be carried by the contractor * Lightning protection system. * Maintenance platform * Moving carpet/conveyor on bottom station. * Every second chair must have a bicycle hook/kit * Audio system on towers and stations * Complete documentation required for project approval in accordance with Georgian legislation. 	

Scope of works

General

Construction of following ski lift is envisaged under the contract: Lift Gomarduli - Fixed-grip 4-passenger Chair lift;
Contract for construction of Gomarduli 4 passenger Chair lift is based on turn key principles and includes:

- Topographical Survey
- Authorized Geological Survey for the purpose of project engineering and commission
- Survey and investigation work (detailed topographic and geological survey) of the line
- Project Engineering; Concept and Detail design
- Complete civil works for construction of the lift
- Supply of equipment CIP Gomarduli, Ajara, Georgia
- Complete installation of equipment
- Testing, commissioning and start-up of ski lifts. Commissioning process must be attended by independent foreign (TUV, Bureau Veritas or other) as well as accredited Georgian entity. Respective conformity certificates must be issued.
- The supplier shall be responsible for maintain working of the facility after commissioning.

Tentative schedule of works:

- No later than -----, 20----, the Contractor shall submit for approval to the client results of survey investigation works, as well as concept design showing all alignments, main technical solutions and parameters of proposed ski lifts
- The client will send comments and remarks within 15 calendar days after receiving the documents
- The contractor has 30 calendar days for submitting revised documents after receiving the comments and remarks
- No later than -----, 20----, the Contractor shall submit detailed engineering design for ski lift's construction, which includes complete documentation required for project approval (construction permit) in accordance with Georgian legislation, in Georgian language
- The client will send comments and remarks within 15 calendar days after receiving the documents;
- Date of commissioning of installation no later October 20, 2022
- In case of failure by contractor to deliver in above stated time frame respective considerable penalties are envisioned

Responsibility/Mandate of the client:

- Obtaining all permissions necessary for construction of ski lifts, based on the documentation submitted by seller
- Resolution of land ownership issues if any related to construction of ski lifts
- Provision of required corridors for the contractor, for necessity occasion
- Bringing electricity at the destination point - nearby of cadastral code 24.08.34.034
- Mediation to the government organs within the scope of competence

Contractor shall be responsible for (but not limited to):

- 4 passenger Fixed Grip Chair lift design and production
- Transportation CIP Gomarduli
- Disembarking of tracks on the storage area
- Disembarking/Embarking and delivery of materials from storage area to the stations and to towers
- Vehicles for delivery of materials
- Preparation of storage area
- Security of storage area
- Installation of the lift
- Supervision
- Civil works
- Concrete works, foundations (Contractor must present Expert Report issued by the organization that is authorized by the unified national body of accreditation – accreditation center of Georgia)
- Provide all necessary information and technical details, including connection locations, capacities, voltage etc. for external power supply of ski lifts
- Preparation/ adaptation of the documentation for obtaining all necessary permissions (obtaining independent experts conclusion)
- On-site training of local employees (up to 5 persons in total).

Technical Details to be collected:

- Detailed interference with operators building (reducing snow/rain/water impacts on the ground)
- Mode of rescue operations
- Wind /freezing limits during operations (and warning or preventing systems)
- List of tools for maintenance incl. grips maintenance
- List of spare parts provided
- List of rescue equipment provided
- Noise level (for employees, clients)
- Fire risks prevention disposal
- Optic fiber and safety line data in the air
- Details regarding electrical components: type of engine, transformer, consumption
- Training period for operations/electrical-hydraulic-mechanical current maintenance
- Presence of experts for the launching period
- Remote assistance system for machine and electrical equipment
- Signing and design for vehicles and stations (covering, languages, signs in Georgian/English).

Administrative conditions:

- Equipment certification regarding European regulation (CE marking, etc.)
- Operational manuals and technical plans to be provided (also translated into Georgian language)
- Spare parts references to be provided

- Provided an authorization letter of the offered equipment by the manufacturer (MAF) and/or the client shall have signed a license/accreditation agreement with the manufacturer.
- Guaranty for equipment provided – the offered equipment shall cover at least 2 (two) years warranty issued by the manufacturer, from the signing of the final acceptance act between the parties under the present contract
- Reception/delivery process as described under general conditions

Design shall comprise (but not limited to):

Principles

- To design in the way to have the minimal impact on environment
- while designing the top station take into account planned panorama café place near it

General documents

- System description
- Safety Analysis
- General drawings of stations (exterior & interior)

Concrete works

- Line foundations
- Drawings
- Calculation Notes

Stations: Drawings

- Layout plan
- Anchorage racks

Steel structures - Civil engineering

- Towers, cross arms, links
- Towers calculation note
- Towers drawings
- Cross-arm assemblies

Tower equipment

- Tower accessories
- Life lines
- Sheave trains catwalks
- Catwalks assemblies
- Catwalks adjustment

Driving station: Structure

- Station modules
- Station structure

Return station: Structure

- Station module
- Station structure

Rope and splicing

Safety components

- Rope
- Rope anchors
- Second Splice (when needed)
- Tightening after 100 hours of operation, Commissioning and everything that is necessary for final commissioning

Stations Safety elements

- Bull wheel + Drive & Tension assembly
- Tension system
- Rope deflections

Line mechanical devices

- Safety components
- Support saddles

Other components of the line

- Carrier
- Sub-systems
- Safety components
- Carriage
- Hanger

Electrical Part shall include (but not limited to):

Characteristics of the device

- Net mechanical power (electrical motor)
- Power required at the transformer

Characteristics of the power supply

- Frequency
- Main transformer voltage (vn)
- Main transformer minimum rating
- Secondary transformer voltage
- Secondary transformer minimum rating

Cabinet room ventilation

Power supply

- Electrical supply characteristics
- Harmonics
- Compensation of reactive energy
- Raising the medium voltage
- Raising the low voltage Power supply cables Transformer calculation

- Schematic diagram
- On board power supply

General safety analysis shall comprise (but not limited to):

- Safety of boarding/unloading
- Safety of users in line
- Safety of the positions of moving elements
- Safety of movement
- Safety of eco-system third parties
- Safety of recovery within stated deadlines
- Safety of operation ability and maintainability

List of installation subsystems

- Power supply
- Automatic controller for command control/safety
- Power equipment
- Tensioning system
- Drive train
- Brakes
- Drive sheave
- Return sheave and deflection sheaves
- Terminal infrastructure
- Station equipment
- Line infrastructure
- Line equipment
- Hauling rope
- Track rope
- Carrier
- Boarding/unloading zone layouts
- Boarding platform doors
- Providing power supply during the building process
- Installation of required transformer for operation

The contractor has to provide complete documentation required for project approval in accordance with Georgian legislation, in Georgian language.

Scope of Delivery

Standard services

Included in these services are all of the following, which are necessary for the design, installation, certification, and approval of the entire installation:

The complete project, consisting of:

- All necessary information for permit application (profile and technical data)

- Basic design criteria, engineering parameters for ropeway (ropeline calculation, foundation drawings, calculation of towers and foundations). In case of special geological soil conditions such as swamp, river, glacier, rock and etc., our services include only a provision of design forces resulting from the ropeway.
- Detailed workshop drawings for local manufacturing (anchors, towers, yokes, ladders, working platform, front masts, supports/hangers for parking rails and for service rail(S)). Complete operating manuals and electronic version in pdf format including data sheets, functional description, and maintenance schedule.
- Supervision of mechanical and electrical installation work.
- Supervision of load test.
- All documentation will be supplied in triplicate in English and Georgian.

Scope and Assembling works

Equipment and Personnel

- One experienced and qualified supervisor for civil constructions.
- Assembly fitters which are necessary to make the mechanic and electrical installation of the lifts.
- Technician who will make the splice of the rope of lifts.
- All tools which are necessary for the mechanic and electrical installation of the lifts.
- All tools for the rope pulling process to pull the rope of the lifts and the signal cable.
- Technician who will make the splice of the rope of the new lifts..
- Transport of our equipment from and to Georgia incl. custom formalities.

List of Works

- Lift line survey and ground working for the towers and the stations.
- Preparation of storage area for equipment
- Founding of stations, include excavating, concreting and backfill to the bottom and top stations.
- Founding Parking garage at the bottom station.
- Preparation of the foundation for the carrier, including excavating, concreting and backfill to the bottom and top stations.
- Responsibility for underground infrastructure – In case of possible damage during construction works.
- The elevator and lorries which are necessary for installation of the stations and working place.

The process flow is based under normal working conditions without any delays and interruptions. Some works can be done parallel.

Equipment of Standart Ropeway

Drive Station

Complete drive station, consisting of:

- Machinery frame for gearbox and electric motor;
- Gearbox;
- Bullwheel, split design;

- Main drive with DC motors with variable speed;
- Main electric cabinets and controls;
- Service and emergency brake units;
- Tensioning system;
- Service platform;

Return Tension Station

Complete return tension station, consisting of:

- Machinery frame;
- Bullwheel, split design

Carriers

- Chairs, Model „E“ for seated passengers, steel frame galvanized with thermal pads, fold-down back rest
- Fixed grip;
- Service carrier with hanger and grip

Haul Rope

- Galvanized steel wire rope, with fibre core

Towers

- Tubular steel towers
- Cross beams with rope lifting frames
- Ladders
- Working platform
- Anchor bolts

Shave Assemblies

With adjusting facility to ensure proper rope tracing

- Boltless sheaves with conductive rubber liners
- Rope catching shoes and break fork switches and all sheave assemblies
- Frames and suspension galvanized

Loading Carpert

- Machine frame, galvanized
- Conveyor belt made of specific synthetic material
- Sideway tracking of the belt
- Coloured track marking
- Electric motor including Gearbox
- Electric controls
- Tacho generator
- Rubber matting
- Conveyor belt cover

Wiring Material

- Electric cables from main disconnect switch of electric cabinet in the chair stations to the electrical equipment of the subject ropeway
- Control cable on line between the stations

Electric Controls

- For main drive
- For emergency drive
- For tension unit
- Overvoltage protection
- Wind speed meter and direction indicator
- Speed control
- Fault indicators for launching/conveying all control circuits, brake system, hydraulic unit
- Communication system between stations
- Derailment switches on towers

Tools and Special Equipment

- Complete tool box for service work;
- Hoisting equipment for rope lifting frames
- Sheave liner mounting tool
- Rescue devices
- Hydraulic grip relocation device

Wear parts

- Mechanical parts, sufficient for 2 years normal operation
- Electrical parts, sufficient for 2 years normal operation

Rust Protection

- Hot-dip galvanizing (steel structure, sheave assemblies, chairs, rope)
- Rust protection + cover of paint (motor and Gearbox housings, electrical cabinets)

Packing and transportation

- The equipment shall be suitable packed for shipping.

Staff Training

- Training for local staff at the working place (6 personnels).

Transportation and logistics

- The contractor shall be responsible of all equipment delivery until it has reached the destination
- The supplier has the liability for the complete transport including transit taxes and its appropriate expenses
- The supplier shall be responsible for equipment unloading and placing on the storage area. Storage area will be selected through coordination with the Buyer.

Test run, Commissioning and Training

- After completion of the installation works, full load-test and braking test have been carried out by specialist of this field (from the supplier parties), independent expertise of the international organizations (TUV, Bureau Veritas and etc) and also with the participation of Georgian accredited organizations. According to inspection

result, the relevant certificate will be issued. The supplier shall be responsible for the payment of all expenses related to above-mentioned part.

ANNEX 2

Time Schedule

№	List of works	Fill in date
1	Project design	
2	Submission final project for building permission	
3	Load testing and commissioning	No later than 20.10.2022

Note: The bidder should take into account the complexity of the technical assignments when setting the deadlines for the work to be performed and should indicate reasonable deadlines.

Name of the Bidder:

Sign of the Bidder: