

შ.პ.ს. ალტა - LLC ALTA – 211380691

ბელიაშვილის ქ. 104

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Technical Assignment

Implementation of construction and MEP works in the leased area of Samgori Mall by developing project and BOQ documentation.

1. General Requirements:

- 1.1. The technical assignment determines the list and procedure of project, construction and MEP works of the leased space.
- 1.2. Location of performed works: Georgia, Tbilisi, Moscow avenue #2, Samgori Mall.
- 1.3. Type of works: Unit project, construction and MEP works.
- 1.4. Works to be performed: Construction, MEP works, project and BOQ documentation development (provision) for the store.

2. Requirements for the development of project and BOQ documentation:

- 2.1. Project and BOQ documentation must comply with the requirements of construction, fire protection, sanitary and hygienic, environmental and other standards valid in Georgia.
- 2.2. Project documentation will be delivered to the Customer in 4 (four) printed copies and in electronic form (* in .dwg and .pdf formats).
- 2.3. After finishing the construction work in the store, it is necessary to prepare and send to Customer the so-called of "as-built" drawings, which must include: date, name of project author, signature and stamp.
- 2.4. Must be provided exact specifications of:
 - ✚ Flooring.
 - ✚ Walls.
 - ✚ Ceiling.
 - ✚ Architectural.
 - ✚ MEP.
- 2.5. Architectural plan should include:
 - ✚ Store concept.
 - ✚ Unit plan with dimensions.
 - ✚ Flooring plan.
 - ✚ Lighting plan.
 - ✚ Ceiling plan.
 - ✚ Elevation of interior walls.
 - ✚ Brand zones.
 - ✚ Navigation/Inspirational elements.

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-  Furniture and equipment plan.
-  Detailed façade drawing.






2.6. The electrical system drawing should include the following components:

-  LVDB scheme.
-  Detailed electrical diagram of the distribution board.
-  Input cable section.
-  Output cable section.
-  Cable type/specification.
-  Characteristics/Specification of internal components.
-  Power and type of connected load.
-  Specification of LVDB should include all board internal components list with exact type and manufacturer.




The load calculation table should include the following:

-  Circuit breakers nominals.
-  All connected loads.
-  Voltage of each load.
-  Power of each load.
-  Current of each load (Amps).
-  Power factor of each load.
-  Demand factor of each load.



Lighting plan should include:

-  All light units.
-  All gang switches.
-  Cable connection scheme. Indicate the cable name and model.
-  Location of distribution load.
-  Exit and emergency lighting plan.

Socket plan should include:

-  All socket units.
-  Cable connection scheme. Indicate the cable name and model.
-  Location of distribution board.

Cable trays, cables and joints plan should include:

-  Cable tray plan.
-  Cable connection joint plan.

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2.7. Ventilation, cooling and heating system drawing should include the following components:

Fan coil plan should include:

- ✚ Fan coil cooling capacity.
- ✚ Fan coil type, manufacturer, model.
- ✚ Valve specification.
- ✚ Pipe diameter and material.
- ✚ Pipe insulation material.
- ✚ Condensing water drain pipe (diameter, material).
- ✚ Location of thermostat in the shop.
- ✚ FCU connection details with valve package.
- ✚ FCU supply and return duct size.
- ✚ FCU grill/diffuser sizes with air flow details.
- ✚ Heating/Cooling power calculations explanatory note.
- ✚ Specification for ducting and insulation material.
- ✚ Pipes insulation material specification.
- ✚ Pipes material, specification, manufacturer.

Ventilation plan should include:

- ✚ Supply and exhaust pipe diameters on each branch.
- ✚ Air supply quantity on each branch m³/h.
- ✚ Damper/diffuser/grill size or diameter.
- ✚ Air exchange calculation explanatory note.
- ✚ Specification for ducting and insulation material.
- ✚ Specification for damper/diffuser/grill.
- ✚ Proper calculation of negative pressure should be provided with capacities.

2.8. Fire Fighting system.

FF drawing should include:

- ✚ Pendent sprinkler location.
- ✚ Detailed bottom sprinkler connection drawing.
- ✚ Upright sprinkler drawings and details.
- ✚ Fire hose cabinet location (if applicable).
- ✚ Fire extinguisher location.
- ✚ Fire flammable material list.

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- ✚ Specification for sprinkler head type, manufacturer, model. The starting temperature, response time and water consumption.

2.9. Fire alarm system.

FA drawing should include:

- ✚ Smoke detector location.
- ✚ Heat detector and indicator location.
- ✚ Fire alarm speaker location.
- ✚ Manual Call Point (MCP) location near exit point of the shop.
- ✚ System type, manufacturer, model.

2.10. Water/Sewage system.

Water supply drawing should include:

- ✚ Hot//Cold pipe line plan.
- ✚ Pipe diameter.
- ✚ Valve specification.

Sewage system drawing should include:

- ✚ Sewage pipe line plan.
- ✚ All pipes diameter.
- ✚ Trap(s) location.

3. Requirements for performed work, material quality and technical characteristics:

- 3.1. The performed works and its quality must meet the requirements of the valid standards of Georgia for construction, fire protection and sanitary norms and rules established for this type of work.
- 3.2. Materials and equipment used must comply with state standards and technical specifications.
- 3.3. All used materials must be non-flammable, self-extinguishing and halogen free.
- 3.4. During the work performance stage, it is necessary to agree the list of materials with the Customer.

4. Requirements to the Contractor:

- 4.1. Construction waste must be removed from 22:00 o'clock.
- 4.2. Construction work should be carried out after the closure of the mall. Noiseless and not dusty works can be carried out during the daytime.

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- 4.3.** It is not allowed to use wooden material as a supporting structure in the suspended ceiling.
- 4.4.** Residual current operated circuit breaker without over-current protection (RCCB device) must be installed in the distribution board.
- 4.5.** Shutter door type must have as automatic mechanism also mechanical mechanism.
- 4.6.** The roller shutter must be connected to the individual uninterruptible power supply unit (UPS). Must be connected on UPS and on separate group.
- 4.7.** Water proofing must be done in the areas of kitchen and WC.
- 4.8.** In the case of gypsum board ceilings, it is necessary to arrange a catwalk structure.
- 4.9.** While connecting the cable, the bonding method should be taken into account. Connection shall be made in the distribution box by a wire contact element.
- 4.10.** All lighting must be grounded.
- 4.11.** It is not allowed to turn off the lights or other consumers from the electric shield, the lights should be turned on and off by a switch. A power contact switch must be installed on the door of the electric shield, which automatically turns on the voltage in the unit.
- 4.12.** In case of a suspended ceiling, technical lighting should be installed inside.
- 4.13.** The electrical shield must be metallic. The shield body and door must be grounded.
- 4.14.** All multi-pole cables should be connected with cable lug.
- 4.15.** The cable coming out of the circuit breakers must be connected to the contact element of the intermediate wire, to which the group cable will be connected.
- 4.16.** Loop Test- Cable Insulation Resistant and grounding Test certificate (together with company authorization docs) must be provided after works completion before shop opening. The test to be performed by authorized company.

5. Delivery of works to the Customer:

- 5.1.** Project, construction and MEP works will be handed over through the signed acceptance-act.
- 5.2.** In case of defects, the Customer has the right not to sign the acceptance-act of the works.
- 5.3.** The Contractor is obliged to eliminate the defects within 5 working days. If the defects prevent the store from operating, the defects must be eliminated on the same day.

Compiled by:

Nino Prangishvili – Head of Infrastructure

Signature:

A handwritten signature in black ink, appearing to read 'N. Prangishvili', written over a light blue horizontal line.