

APPENDIX No. 1. TECHNICAL SPECIFICATION

Functional and technical parameters of the granite aggregate processing plant:

I-tem No.	Functional and technical parameters	Parameter values
1	2	3
1.	Processing plant capacity and products	The granite aggregate processing plant operates efficiently at a capacity of 310 t/h when producing 0/22 mm material and at 230 t/h when producing 0/16 material. The plant is designed to produce the following fractions: 0/2, 2/5, 5/8, 8/11, 11/16 and 16/22.
2.	FLSmidth Raptor 450 cone crusher	– capacity: 190–650 t/h; – power supply: 400/690 V, 50 Hz; – maximum size of material to be crushed: 270 mm; – minimum size of material to be crushed: 5 mm; – electric motor power: 320 kW; – electric motor speed: 1,400 rpm; – drive speed: 690 rpm; – gap between the cones: 10–50 mm; – hydraulic oil tank capacity: 200 L; – lubrication tank capacity: 600 L; – automatic lubrication and hydraulic system; – protection against uncrushable material; – crusher control system; – crusher weight: 33,000 kg; – crusher height: 3,000 mm
3.	25 m ³ hopper with 100 × 300 feeder	– hopper capacity: 25 m³; – vibrating feeder nominal size: 1,000 × 3,000 mm; – vibrating feeder power: 2 × 2.7 kW; – supporting metal structure, galvanised
4.	Three-deck vibrating screen 240 × 600/3	– motor power: 2 × 22 kW – vibrating screen nominal size: 2,400 × 6,000 mm; – metal screen mesh; – dust cover, easily removable; – electric brake; – galvanised supporting metal structure with maintenance platform; – armoured metal chutes;
5.	Two-deck vibrating screen 240 × 600/2	– motor power: 30 kW; – vibrating screen nominal size: 2,400 × 6,000 mm; – metal screen mesh; – dust cover, easily removable; – electric brake; – galvanised supporting metal structure with maintenance platform; – armoured metal chutes;
6.	Two-deck vibrating screen 240 × 700/2	– motor power: 37 kW; – vibrating screen nominal size: 2,400 × 7,000 mm; – metal screen mesh; – dust cover, easily removable; – electric brake; – galvanised supporting metal structure with maintenance platform; – armoured metal chutes;
7.	Stationary conveyor T-1	– Covered conveyor with galvanised structure; – Maintenance walkway on one side; – Length: 10 m; – Belt width: 1 000 mm;

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		– Angle: 7°; – Capacity: 320 t/h; – Power: 5,5 kW; – Belt speed: 1,27 m/s
8.	Stationary conveyor T-2	– Covered conveyor with galvanised structure; – Maintenance walkways on both sides; – Length: 31 m; – Belt width: 1 000 mm; – Angle: 14°; – Capacity: 345 t/h; – Power: 2 × 11,0 kW; – Belt speed: 1,18 m/s
9.	Stationary conveyor T-3	– Covered conveyor with galvanised structure; – Maintenance walkways on both sides; – Length: 55 m; – Belt width: 650 mm; – Angle: 18/3°; – Capacity: 96 t/h; – Power: 2 × 7,5 kW; – Belt speed: 1,14 m/s
10.	Stationary conveyor T-4	– Covered conveyor with galvanised structure; – Maintenance walkway on one side; – Length: 8 m; – Belt width: 650 mm; – Angle: 5°; – Capacity: 96 t/h; – Power: 2,2 kW; – Belt speed: 1,10 m/s
11.	Slewing conveyor T-5	– Covered conveyor with galvanised structure; – Maintenance walkway on one side; – Length: 25 m; – Belt width: 800 mm; – Angle: 18°; – Capacity: 147 t/h; – Power: 2 × 5,5 kW; – Slewing mechanism: 0,75 kW; – Belt speed: 1,34 m/s
12.	Stationary conveyor T-6	– Covered conveyor with galvanised structure; – Length: 7 m; – Belt width: 650 mm; – Angle: 15°; – Capacity: 69 t/h; – Power: 3 kW; – Belt speed: 1,15 m/s
13.	Slewing conveyor (T-7, T-15), 2 units	– Covered conveyor with galvanised structure; – Maintenance walkway on one side; – Length: 25 m; – Belt width: 650 mm; – Angle: 18°; – Capacity: 63–69 t/h; – Power: 7,5 kW; – Slewing mechanism: 0,75 kW; – Belt speed: 1,34 m/s

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14.	Stationary conveyor T-8	– Covered conveyor with galvanised structure; – Length: 10 m; – Belt width: 1 000 mm; – Angle: 15°; – Capacity: 230 t/h; – Power: 7,5 kW; – Belt speed: 1,14 m/s
15.	Stationary conveyor T-9	– Covered conveyor with galvanised structure; – Maintenance walkways on both sides; – Length: 57 m; – Belt width: 1 000 mm; – Angle: 18/0°; – Capacity: 230 t/h; – Power: 2 × 15 kW; – Belt speed: 1,18 m/s
16.	Stationary conveyor T-10	– Covered conveyor with galvanised structure; – Maintenance walkways on both sides; – Length: 40 m; – Belt width: 800 mm; – Angle: 18/0°; – Capacity: 142 t/h; – Power: 2 × 9,2 kW; – Belt speed: 1,16 m/s
17.	Stationary conveyor T-11	– Covered conveyor with galvanised structure; – Length: 6 m; – Belt width: 650 mm; – Angle: 13°; – Capacity: 50 t/h; – Power: 3 kW; – Belt speed: 1,15 m/s
18.	Slewing conveyor (T-12, T-16, T-19), 3 units	– Covered conveyor with galvanised structure; – Maintenance walkway on one side; – Length: 25 m; – Belt width: 650 mm; – Angle: 18°; – Capacity: 38–50 t/h; – Power: 7,5 kW; – Slewing mechanism: 0,75 kW; – Belt speed: 1,34 m/s
19.	Stationary conveyor (T-13, T-17), 2 units	– Covered conveyor with galvanised structure; – Length: 10 m; – Belt width: 650 mm; – Angle: 15°; – Capacity: 38 t/h; – Power: 3 kW; – Belt speed: 1,15 m/s
20.	Stationary conveyor T-14	– Covered conveyor with galvanised structure; – Length: 27 m; – Belt width: 650 mm; – Angle: 7°; – Capacity: 38 t/h; – Power: 5,5 kW; – Belt speed: 1,08 m/s

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21.	Stationary conveyor T-18	– Covered conveyor with galvanised structure; – Length: 20 m; – Belt width: 650 mm; – Angle: 9°; – Capacity: 38 t/h; – Power: 4 kW; – Belt speed: 1,07 m/s
22.	Dust-suppression water spraying system	– designed for and installed on the granite aggregate processing plant; – installed on the movable conveyors at the discharge points into the stockpiles (6 points); – the dust-suppression water spraying system is integrated with the control system of the entire processing plant.