Technical requirement

for projection and supply accumulating table, transportation lines, control and packing lines for line 5.4

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| № | Basic data of requirements | | Requirements |
| 1 | The basis for the work | | Order № 739 dated October 31, 2018 «Realization of the Project “Line 5.4» |
| 2 | Address | | 8a Dargomizhskiy st., Novosibirsk, Russia |
| 3 | Name of object | | Line № 5.4 from glass forming machine EMHART NIS Machine 12 sections 5'' TG |
| 4 | Characteristic of object | 4.1 | Type of products: production of glass bottle with a capacity of 1 l. to 0,1 l. made glass melt (glass grade: amber, green, flint), process PB, BB, NNPB way in the triple-gob mode |
| 5 | Stages of project | 5.1 | To provide two stage of works.  First stage: To ensure transportation, control and packing glass products from line 5.4 use:  - existing line 5.3 of transportation, control and packing with automatic operation system  - one stream of transportation, control and packing of line 5.4 equipped with inspection equipment and equipment of packing equipped with automatic palletizer (performance of the palletizer is not less than 2-3 layers per minute), accumulating table with system of supply of pallets, gasket laying system, system of roller tables and automatic operation system |
| 5.2 | Second stage: To ensure transportation, control and packing glass products from line 5.4 use two streams of transportation and control of line 5.4 equipped with inspection equipment |
| 6 | Initial data | 6.1 | Speed of line at least - 540 pcs / minute  Size of bottle:  - diameter Max. = 121 mm and Min. = 32 mm,  - height Max. = 400 mm and Min. = 125 mm |
| 6.2 | Completeness of the line according to the layout  СК-3.18.5.4.01В1.000ТП |
| 6.3 | Required performance of the palletizer is not less than 2-3 layers per minute |
| 7 | Requirement for supply | 7.1 | Scope of delivery:  **First stage:**  - cascade conveyor for supply of glass on the transporter 5.3 и 5.4  - line of transportation and control 5.4  - accumulating table  - palletizer  - automatic line control system 5.4  - spare parts for 1 year of trouble-free operation  - installation supervision and commissioning of the first stage  **Second stage:**  - line of packing 5.4 (accumulating table, stacker, system of supply of pallet, system of roller tables  - automatic operation system of packing line integrated in automatic operation system of transporting and control line  - spare parts for 1 year of trouble-free operation  - installation supervision and commissioning of the second stage |
| 8 | Installation supervision and commissioning and training | 8.1 | To provide installation supervision and commissioning of each stage |
| 8.2 | Provide training for operation personnel. |
| 9 | Requirement to offer | | In the offer to divide the cost, deadlines and payment procedure, taking into account 2 stages of project |
| 10 | Term of realization | | First stage - second quarter of 2019  Second stage - first quarter of 2021 |