



Invitation To Bid (ITB)

Subject: UNDP HIST 029-2017 Establishment of an Invitation to Bid (ITB) for the Comprehensive design, manufacture, delivery, installation and commissioning of carton conveyor system, supporting requirements, maintenance manuals and warranties.	DATE: December 20, 2017 REFERENCE: ITB UNDP HIST 29-2017
--	---

CLARIFICATIONS TO BIDDERS. Nr. 1

Important: All bidders are kindly requested to take note of the following clarifications in response to enquiries.

Q1. Regarding description of Conveyor # 102 “Hydraulic assisted Lift”, please clarify what is the Hydraulic assisted Lift? How much distance should it be lifted?

A1. The assistance is to assist an operator in lifting the conveyor gate. The operator should not have to lift above 7kg.

Q2. From the requests we understood there are a lot of conveyors need Side Guarding, please clarify the height of the side guarding?

A2. Height of side guarding can be 100mm.

Q3. For “Conveyor # 310 Gravity Decline Conveyor”, please clarify the height for both the lower side and higher side.

A.3 You will need to supply adjustable supports. High side 700mm low side sufficient for cades to gravitate.

Q4. For the convey direction, do you only need one side convey? No need to convey back and forth?

A4. Single direction only.

Q5. For the electrical process, which function do you need? For instance, it should have the function of start, stop, emergency stop, speed adjustment? Do you need any sensor? If yes, what kind of action should it be used for? Emergency stops are required on all conveyor drive sections:

A5: Emergency stops are required on all conveyor drive sections and in accordance with standards. Each motor should have a start stop. You have accumulation conveyors which are zero pressure, so you will need sensors as well as on the merge section and lift up gate. Sensor also requires at the outbound gravity conveyor for an die back condition.

Q6: The throughput of 2500 totes or cases per hour is very high for a system like this with a manifest setup like indicated. The merge setup as represented on the drawing will not be able to cope with that type of throughput in a merging scenario and will only be able to cope if only one side of the merge is able to run on its own. Please clarify that the 2500 totes or cases per hour is the correct throughput required.

There is no electrical specification for this equipment. However, there is mention of a MMI in the training requirements. We would need a specification of what is expected from the MMI. We will assume that there is no specific requirement or preference for electrical equipment as there is no specification.

If the system is specified at 2500 totes or cases per hour then the speeds of the conveyors will be very high (around 40 to 45 meters per minute in normal conveying area) and this will make interfacing with the conveyor challenging and a lot of energy will be wasted if it is not used at the specified throughput.

A6: The general speeds of the conveyor are between 20-25m/min, this will actually achieve under certain conditions up to 2500 totes per hour. The MMI must indicate motor status, emergency stop status, photo eye status and diagrammatically show overall conveyor status. Any special support information should be indicated on the MMI.

Yours sincerely,

Alfonso Buxens, Procurement Advisor, GF Partnership PSM Team