

QUESTIONS AND ANSWERS REPORT (3)

<u>To:</u>	Bidders
<u>From:</u>	UNDP Lebanon
<u>Subject:</u>	Supply and Installation of briquetting plants to prepare, process and condition the agroforestry residues and other residues of agriculture and forestry origin
<u>Reference:</u>	LEB/CO ITB/2/15
<u>Date:</u>	05 February 2015

UNDP Lebanon Procurement Unit has received several questions regarding the subject Tendering Procedure. All questions received to-date are documented below with respective answers.

Questions and Answers		
1	Q.	The renting or purchase of adequate land (above 600m2) and building (above 200m2) for the installation of the plant and the storage of raw material and finish products is not part of this bid? Please confirm.
	A.	Confirmed.
2	Q.	The installation of any shedding (to protect from rain the raw material and finish product stocks) is not part from this bid? Please confirm.
	A.	Confirmed.
3	Q.	The installation of a diesel generator and its fuel tank with sufficient power capacity for the plant is not part of this bid? Please confirm.
	A.	Confirmed.
4	Q.	The electrical network between the diesel generator and the plant Main control panel is not part of this bid? Please confirm.
	A.	THE WOOD CRUSHER REQUIRED MUST BE SUPPLIED WITH ITS DIESEL GENERATOR (AUTONOMOUS CRUSHER). THE REST OF THE PLANT SHOULD BE POWERED FROM THE 3 PHASE SUPPLY TO BE AVAILABLE ON SITE.
5	Q.	The packing machine for finished product shall be included in this bid? Please confirm.
	A.	This should be included as an optional item.
6	Q.	Will Client provide the building for installation of plant, raw material storage yard, and final product storage building?

	A.	Yes these will be provided by the municipality.
7	Q.	Will Client provide the raw material for preparing of machine foundation like as (concrete, cement, re-bar, sand, etc...)?
	A.	The contractor here has to include in its bid and supply all the necessary materials to enable the requested machinery to operate under the specified conditions.
8	Q.	Is the building where the machine to be house, does it exist or it needs to be built?
	A.	It is going to be built by the municipality.
9	Q.	is there POWER suppliers for operating the tools
	A.	Power (and/or fuel) will be supplied by the municipalities for running the process.
10	Q.	Is there Water supply for domestic usage/machine usage
	A.	Water supply will be supplied by municipality.
11	Q.	Is the drainage at site?
	A.	Drainage requirements will be managed by municipality.
12	Q.	Is there power/light supply? i.e. is the lights ? Sockets available?
	A.	Yes these can be secured given that the municipality will secure the power supply.
13	Q.	Do you have any pictures for either lots or both?
	A.	At this moment, no pictures are available.
14	Q.	Is it OK to provide items that are made in the USA for the machine. The issue the tenders call for CE markings and this is not possible for American products.
	A.	US products are also acceptable.
15	Q.	In scope clause 1.1 chips will be stored for ambient drying for 5 months, does this clause will allow the production after such period?
	A.	Under normal conditions of humidity and temperature in the work zones chosen, five months should be enough to decrease the wood moisture from 50% to 20%, but there is a certain degree of uncertainty, as there are no similar previous experiences in the country. The dryer is requested to optimize the process during the testing time of these facilities. The more moisture drying naturally decreases, less energy consumption will be registered in the dryers.
16	Q.	In clause 1.2 Relative humidity is considered 95%, but there is nothing clear about dryer equipment, normally ambient temp is considered at 30°C with 10% humidity. On the other side there is limitation in Drying section of fuel. These conditions are vice-versa.
	A.	95% is the maximum Relative humidity to be considered in the zone.

17	Q.	Outdoor component should withstand with wind speed of 120km/hour. Is this plant is going to be installed in open or under covered shed?
	A.	Covered shed for the machinery and covered shed for stockpiles of chips.
18	Q.	In clause 2.2.3 whole tree without roots with size of 6" dia (200mm-8"). Such mentioned power i.e. 18-30 hp is not enough sufficient to handle this size for shredding. Kindly confirm.
	A.	The figure of 18-30 is in kW, and we're expecting diameters of 100-150 mm, for the first years of forest exploitation, and 200 mm will be only in some cases. Bidders are free to offer more powerful machinery, at their own discretion.
19	Q.	Belt conveyor required capacity is mentioned next to this about 500ton/hour? Is that required for 500ton/year briquetting plant?
	A.	The figure is 500kg/hour or 0.5 ton/hour.
20	Q.	To handle 20-50% moisture there is Rotary Drum Dryer is required. But on the other hand they are focusing for 5 months storage to reduce the moisture from 50 to 20%. Kindly clear.
	A.	Please refer to the answer of question no. 15 above. The experience in Lebanon in cutting trees, drying, and chipping is limited and the seasons to cut and to do the subsequent drying are not clearly determined. Then we prefer to have artificial dryers to test and ensure the optimal solution adapted to Lebanon.
21	Q.	In briquetting plant, they are looking for excess feeding to return in silo, whether 500t/year is just a demonstration plant or production plant.
	A.	It's a demonstration plant so near to a production plant to test and find the best solution in terms of conversion of forest and agriculture wastes to energy adapted to local needs in Lebanon.