

# CLARIFICATIONS TO MORE QUESTIONS FROM BIDDERS

NO	LOT	QUESTION	RESPONSE
1	Presscane (Lot 2)	What is the assumption of Cane Yield	100Tons Cane per Hector
2		Type of Harvesting of Sugar Cane and Transport System as to decide Cane Handling System	Manual harvesting after burning or Green and to be transported by Tractor Trailers
3		We hope your existing distillery plant must have ETP, a Molasses based feedstock. Whether you need ETP for processing Syrup based feed stock to be installed at Distillery plant? You have asked the same Vinasse Treatment Plant in Lot 1 Also. Please let us know where we should consider	We are looking for a Zero Liquid Discharge Solution proposed by the bidder. This should be able to handle both Molasses based effluent and Syrup based effluent at any ratio.
4		The electrical data is provided in Page No40. Please let us know 1. Whether our scope includes transmission lines from factory to the Grid located about 2.5 kms from the factory. 2. We will not consider steam / power requirement for your Existing Distillery	Transmission line is out of this scope. 33KV line is already available on site; provision to be included is export equipment to be used to connect into the 33KV line within the factory premises.  Steam and power requirements for existing factory to be included in scope, ie Power - 700Kw Steam – 8TPH at 10bar
5	Presscane & EthCo (Lot 1 & 2)	Would like to know how much power generation these projects are expecting as they mentioned about surplus power to be connected to grid. So whether local electricity company pay the ethanol company for exporting power in malawi?	Bidder to determine how much power is capable to generate from available bagasse depending on the efficiency of boiler being offered and also to avoid run out of bagasse before finishing season. Variables are Boiler Efficiency Vs Bagasse availability. Bidders should optimize on power generation”.
6		As we are able to operate boiler up to 28tph with 1000 tcd crushing capacity. But steam required for this project (Up to Syrup Plant ) is very less as and even power requirement maximum for milling plant will be 1.5MW. But if we go for high pressure boiler power about 4-5 mw can be generated where balance power can be sold to grid but the exhaust steam utilisation will be not possible much.	Supplier to propose a cost effective solution
7		As in bid it is mentioned that the surplus power to be connected to the grid. Does it mean Selling power to electricity company?	YES
8		Syrup has its ability to ferment faster where molasses does not hence it is difficult to store syrup for 90 days as per LOT 1 requirement. Please suggest	Please propose solution
9		If you have to go for power export then will have to	Suppliers to propose

		include factory side switchyard. Transmission line and substation switchyard etc.. The turbine type for exporting power shall be double extraction cum condensing. 4 MW can be generated. what about balance machinery for power export? Please confirm	
10	EthCo (Lot 1)	Location of bore holes with respect to AREAS 'A' and 'B' are not mentioned on the map. This is necessary to decide the applicable bore hole results to the plant buildings. We are sending here with the site plot plan with grid lines, you are requested to locate the boreholes as taken by the surveyor, enabling us to decide heavy foundations coming in those areas	<b>There is a sketch map included in the report which locates the borehole positions and can be superimposed.</b>
11		Though SPT values and the particle size distribution is given ; laboratory tests like UCC (Un Confined Compression strength on undisturbed soil sample), Tri-axial shear, etc. are required	<b>We cannot get undisturbed sample from sandy soil and decomposed rock which was not very cohesive.</b>
12		In absence of data on suitability of the excavated soil for plinth filling ; a confirmation to this effect is needed	<b>You may need to import gravel from nearby for filling.</b>
13		There is no recommendation on the SAFE BEARING Capacity of soil. We will have to base the SBC at tendering stage on the SPT Values alone and this is not desirable	<b>Safe bearing capacity is arrived at by applying a factor of safety applied on the bearing capacity which can be obtained from SPT values depending on depth and location of foundations</b>
14		Plate load test near about the bore holes is desirable; so that settlement analysis based type of foundations can be planned	<b>The soil samples m in the lab are not cohesive therefore cannot be used for settlement tests. This would be a separate exercise if more field work is required. I assume any further investigations will depend on the type of foundations selected.</b>

<b>Section / Paragraph</b>	<b>Queries</b>	<b>Vendor's Remark</b>	<b>RESPONSE</b>
BID DOCUMENT CLARIFICATIONS Point no. 8 Page no 3	Ethco (Lot 1) Distillery Capacity basis is 60 KLPD but a provision should be made for expansion to 90KLPD.	We have considered 60 KLPD distillery capacity for designing the syrup mill for Ethco case. Please confirm the above understanding.	<b>Yes, Correct</b>
BID DOCUMENT CLARIFICATIONS Point no. 8 Page no 3	At PressCane (Lot 2) initiative towards upgrading to 90 KLPD has started, hence necessary to consider expansion to 90 KLPD in the next 2 to 3 years.	Please confirm <b>PressCane plant</b> capacity (60 KLPD or 90 KLPD) for designing of the syrup mill.	<b>We should consider capacity of 90KLPD for PressCane</b>

Section / Paragraph	Queries	Vendor's Remark	RESPONSE
BID DOCUMENT CLARIFICATIONS  Page no 4 Point no. 1	Query Date - 20/07/2015 Page 37 Lot 2, Assumptions, first bullet point What is the design capacity of distillery to be considered for mill sizing? 60 KLPD		
Section 5 Scope of Work Page no 35 Point no 1	1. Design, manufacture, deliver, install and commission a syrup plant (complete with civil works), comprising of a complete juice extraction plant and a sugar processing plant, capable of delivering a syrup equivalent of 1000 TCD of fresh sugarcane juice for 330 days a year and is capable of easily being expandable by 40%.	As per our understanding capacity of Syrup Mill shall be sufficient for existing plant capacity. Expansion of Syrup mill by 40% is possible by addition of new milling train in future. Space shall be provided for the same?  Please confirm the above understanding.	<b>Confirmed, Correct</b>
Section 5 Sugar Cane and Plant data Page no 35  BID DOCUMENT CLARIFICATIONS	Effluent Data  Appendix 2 - Spent Wash Analysis for Press Cane	Please provide more details of Spent wash Analysis -Clarify Solid Conc in vinasse (TSS & TDS), <b>Temperature</b> , Viscosity data etc.  Effluent Treatment Plant shall be designed to treat only spent wash from distillation section. Please confirm the above understanding.  Please review and confirm the TSS and TDS values mentioned in Spent Wash Analysis (Appendix 2). These values are very high. If these values remain same, then we need to have Sludge separation unit before Evaporation section.  Please clarify 1L-1S, 2L-2S and so on philosophy mentioned in the spent wash analysis.  We are considering same specifications of Spent Wash Analysis for Ethco case too. Please confirm this understanding.	<b>The plant to treat both Spent was from Distillation and fermentation washing water. For design purpose consider a temperature of 60Deg C.</b>

Section / Paragraph	Queries	Vendor's Remark	RESPONSE
Section 5 Scope of Work Page no 41 Point no 2	2. Design, manufacture, supply, install and commission a flexible vinasse treatment and handling plant used for treating vinasse from 100% molasses effluent (0% syrup effluent) through all combinations to 100% syrup effluent (0% molasses effluent) that will result in zero effluent discharge	There are two cases for Effluent Treatment Plant (for molasses as feedstock and Syrup as feed stock). Considering the worst case, ETP shall be designed only for the treatment of vinasse generated from molasses based distillery.  Please confirm the above understanding.	<b>This is OK if the understanding that Molasses based vinasse is worst case scenario i.e. We assume that the plant can handle syrup based vinasse with ease.</b>
-	Please provide site data for Ethco case.	Seismic Zone, Wind Velocity, site Altitude etc	<b>Seismic Zone - Both Chikwawa and Dwangwa are in the Great rift valley which is considered to be in a highly active fault zone, Wind velocity - 4.8 m/sec to 5.6 m/sec</b>
-	Please provide site data for PressCane case.	Seismic Zone, Wind Velocity etc	<b>Seismic Zone - Both Chikwawa and Dwangwa are in the Great rift valley which is considered to be in a highly active fault zone, Wind velocity - 4.8 m/sec to 5.6 m/sec</b>
Section 2 Bid Data Sheet Page no 16 ITB 3.1.4.2	Point no. 4 - Personnel Selection Approach	This requirement is not clear. Please provide more clarification.	<b>Justification of Key staff required for Projects Construction and the roles they will play in the project</b>
Section 2 Bid Data Sheet Page no 17 ITB 3.1.4.2	Point no. 9 - Verifiable technology transfer arrangements	This requirement is not clear. Please provide more clarification.	<b>Operational and Maintenance skill transfer proposal</b>