

**ITB No-086/15, Supply and Installation of water pumps in Nahrawan Water Treatment, Baghdad.**

**Clarification No. 1**

**This Clarification is issued in response to questions raised by bidders.**

#	ITB section	Questions	Answers
1	Section 3a: Schedule of Requirements and Technical Specifications	Does each of the required operation boards contain only one soft starter to operate one 315 kw pump?	Yes, each required electrical operation board contains only one Soft Starter/soft stop
2	Section 3a: Schedule of Requirements and Technical Specifications	In item-2, Installation & operation of six pumps is required, while the total number of pumps in item-1 is eight. Please let us know which pumps are to be installed.	The work includes installation & operation 6 water pumps and 2 will be stored as standby The pumps will be installed as follows: - 2 Pumps 1500 rpm (2 pumps will be stored as standby) - 2 Pumps 1000 rpm - 2 Pumps 500 rpm
3	Section 3a: Schedule of Requirements and Technical Specifications	1-Is the construction of concrete foundation included in our scope of work? 2-Do we need to construct new foundation for the new supplied pumps? 3-Do we need to remove the old foundation?	There is already an old concrete bases for 6 old pumps, the contractor should install the new pumps with complete installation requirements with some additional civil works for new provided pumps.
4	Section 3a: Schedule of Requirements and Technical Specifications	We would like to know the NPSH Figure (Net Positive Suction Head Available). This figure is required to identify the pumps.	The NPSH figure (Negative positive suction head) is a round 7-8 Meter (Less than 10) (the Pumps are working with positive pressure).
5	Section 3a: Schedule of Requirements and Technical Specifications	1- What Liquid being handled? 2- What is the Ambient Temperature?	1- The liquid will be handled is water 2- Ambient temperature around 55 C degree
7		Which motor should be provided for the pumps? Electrical or diesel motor?	Electrical Motor should be provided for required water pumps, and not diesel.
8		Are there any photos of the existing old pumps	Yes, please refer to the attached Annex.

17th November 2015













