

<b>ANNEX 1 TECHNICAL SPECIFICATION</b>				
<b>PN:19.1801.0-004.00</b>				
<b>giz</b> Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH				
<b>A. Technical Specification</b>				
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Comment</b>

**Supply of Submersible Pumps**

<b>1</b>	<b>Submersible borehole pump</b> <b>Brand: Grundfos</b> - suitable for pumping clean water. Can be installed vertically or horizontally - All steel components and pump, impeller, motor are made of stainless steel EN 1.4301 (AISI 304) to ensure high corrosive resistance. - LIQUID: <b>1. pumped liquid: drinking water</b> <b>2. max.temp.: 40 degree celsius</b> 3.max. at 0.15 m/sec: 40 degree celsius 4. selected liquid temp.: 20 degree celcius 5. density: 998.2 kg/m3  pump speed on which pump data should be based: 2900 rpm <b>actual flow: 8 m3/h</b> <b>resulting head of pump: 220 m</b>	<b>pieces</b>	<b>1</b>	
<b>2</b>	Same specifications as above, but with <b>H= 130 m Q= 17 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>3</b>	Same specifications as above, but with <b>H=165 m Q=17 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>4</b>	Same specifications as above, but with <b>H=205m Q=17 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>5</b>	Same specifications as above, but with <b>H=340m Q=17 m3/h</b>	<b>pieces</b>	<b>1</b>	
<b>6</b>	Same specifications as above, but with <b>H=110m Q=30 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>7</b>	Same specifications as above, but with <b>H=155m Q=30 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>8</b>	Same specifications as above, but with <b>H=194m Q=30 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>9</b>	Same specifications as above, but with <b>H=240m Q=30 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>10</b>	Same specifications as above, but with <b>H=272m Q=30 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>11</b>	Same specifications as above, but with <b>H=165m Q=7 m3/h</b>	<b>pieces</b>	<b>1</b>	
<b>12</b>	Same specifications as above, but with <b>H=145m Q=5 m3/h</b>	<b>pieces</b>	<b>1</b>	
<b>13</b>	same upper submersible pump but with <b>H=155m Q=15 m3/h</b>	<b>pieces</b>	<b>2</b>	
<b>14</b>	Same specifications as above, but with <b>H=180m Q=20 m3/h</b>	<b>pieces</b>	<b>1</b>	
<b>15</b>	Same specifications as above, but with <b>H=100m Q=20 m3/h</b>	<b>pieces</b>	<b>1</b>	
<b>16</b>	Same specifications as above, but with <b>H=170m Q=30 m3/h</b>	<b>pieces</b>	<b>2</b>	

**B. Remarks And Condition**

- 1 Certification of origin for all offered items should be provided before delivery.
- 2 Submit Manufacturer certification and test reports for all offered items should be provided before delivery.
- 3 Catalogues and tech. specifications should be provided with offers .