SUPPLEMENTAL INFORMATION #1
to RFQ/UNDP/39/2016
for supply and delivery of booster station

The RFQ/UNDP/39/2016 is hereby amended to read as follows:

1. Technical characteristics of booster station specified in item 1.2. (Pump thrust, m: 50-75;) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:

«1.2. Pump thrust, m: 65-75»

2. Technical characteristics of booster station specified in item 2.3. (Power, kW: 80-150;) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:

«2.3. Power, kW: 150-250;»

3. Technical characteristics of booster station specified in item 2. (**Type:**); Section **I General requirements** (Annex 1) are amended to read as follows:

«Type: Booster station including slurry (sludge) centrifugal pump or centrifugal and vortex pump with electric drive in the protective metal case of a container type. Booster station is mounted to the metal frame base or metal plate for fixation with bolted-type connection to the concrete horizontal base (foundation)».

4. Section **I General requirements** (Annex 1) the following parameter has to be added:

«4.3. Storage in the idle period of the year: At the place of operation in all seasons all year round;»

5. Technical characteristics of booster station specified in item 1. (**Pump**) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:

«1. Pump: Centrifugal pump or centrifugal and vortex pump for abrasive slurry;»

6. Technical characteristics of booster station specified in item 1.5. (**Pump seal**) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:

« 1.5. Pump seal: Face seal with supply of washing liquid or gland seal;»

7. Technical characteristics of booster station specified in item 2.8. (**Number of pairs of poles**) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:

«2.8. Number of pairs of poles: not less than 2;»

8. Section **II Performance and technical characteristics** (Annex 1) the following parameter has to be added:

«2.11. Moisture resistant cable from booster station to the control from dredger. Cable length 600 m»

9. Section **II Performance and technical characteristics** (Annex 1) the following parameter has to be added:

«2.12. Moisture resistant five-pole power cable for connection of booster station to the power source. Cable length 300 m»

10. Technical characteristics of booster station specified in item 3. (**Completeness of the station**) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:

«3. Completeness of the station:

Metal frame base or metal plate with holes for fixation with bolted-type connection. On the base electric motor and pump are mounted and enclosed into a protective metal case of a container type made from corrosion-resistant steel of 2-3 mm thick.

The side walls of the protective case are rising and are fixed on top side with the hinges to metal framework or removable. The opening or removable side walls of the protective case are equipped with locking devices. Steel extension of the pump suction pipe must have flanged connection at the end compatible with the flanged connection of the coastal slurry pipe and must reach outside the protective case of the booster station in the vertical position in relation to the ground.

Steel extension of the pressure branch pipe must have flanged connection at the end compatible with the flanged connection of the coastal slurry pipe and must reach outside the protective case of the booster station in the vertical position in relation to the ground. It has to be located on the left side along the path of pulp slurry moving in coastal slurry pipeline, which goes from the dredger.

For information:

Characteristics of the existing coastal slurry pipe:

SDR 21 corresponds to the described technical requirements in RFQ with the following characteristics: outside diameter of the pipe 225 mm; approximate internal diameter (nominal pipe bore) 200 mm; wall thickness 10,8 mm; pipe material PE 100. Pressure of pumped abrasive slurry, MPa: 0.8.

Joint flanges of coastal slurry pipe:

Location of flanges: on both sides of the pipe;
Flange type: ring-type, steel, flat;
Standard: 1-200-10 GOST 12820-80
Outer diameter, mm: 335;
Inner diameter, mm: 222;
Reference (circle) diameter on the centres of bolt circles, mm: 295;
Diameter of bolt circles, mm: 22;
Number of joint holes, pcs: 8»

11. Section **II Performance and technical characteristics** (Annex 1) the requirement under item **6. (Tool kit) is canceled.**

12. Technical characteristics (Annex 1) the following parameters have to be added:

Training of the Purchaser' s/End-user's staff in the operation and maintenance

The Supplier shall provide training of the Purchaser's staff on the Goods operation, servicing and maintenance in to the place of the Goods delivery on delivery of Goods according to the Supplier's standard program, if required by the Purchaser. Language of instruction: Russian, Belarusian or English.

Commissioning

The Supplier shall demonstrate that the Goods meet the performance requirements.

The Supplier shall dispatch experienced staff to the place of the Goods delivery to perform the following tasks:

-To start-up and field-test the Goods for proper operation, efficiency and capacity;

-To perform necessary field adjustments during the test period until the Goods operation is satisfactory to the Purchaser.

The Purchaser will sign the Goods satisfactory inspection and testing certificate (Goods acceptance certificate) following demonstrated satisfactory operation of the Goods

Preparation of foundation for installation of booster station: The end user is responsible for preparation of the concrete horizontal base (foundation) for installation of the booster station (the booster station is supplied mounted to the metal frame base or metal plate).

13. The requirement «Warranty for a minimum period of twenty four (24) months from the Goods acceptance date.» in section After-sales services required and in all the RFQ document is amended to read as follows:

Warranty for a minimum period of twelve (12) months from the Goods acceptance date.

14. Technical characteristics of booster station specified in item 1.9. (**Input pressure control:**) Section **II Performance and technical characteristics** of Technical requirements (Annex 1) are amended to read as follows:
«1.9. **Input pressure control:** Automatic control of speed according to input pressure of pulp supplied from the dredger;
Booster station must be equipped with automatic control of speed by change of rpm of the pump according to change of pressure of pulp through **frequency converter** in order to control speed of the pump**»**

15. **The deadline for submission of offers is changed**. The new deadline for submission of offers is

18 February, 2016, 17.00 local (Minsk) time

Amended Annex 1 (Technical Specifications) and Annex 2 (Form for submitting supplier's quotation) are attached.

February 5, 2016