## Notes on Pilot Project needs

Due to resolution of the Cabinet of Ministers of Ukraine, which adopted Decree No. 883, dated August 6, 2024, titled "On the Implementation of a Pilot Project for the Distribution of Humanitarian Aid in the Form of Liquefied Natural Gas (LNG) to Meet Household Needs during Martial Law."

Priorities:

| N⁰ | Туре                          | Volume               | Number of        |                           |
|----|-------------------------------|----------------------|------------------|---------------------------|
|    |                               |                      | units            |                           |
| 1  | gas cylinders for households  | Priority- 27 liters, | 8-17 thousands   | Find some <i>examples</i> |
|    | Specification: <u>propane</u> | Also considerable-   |                  | with pictures below       |
|    | plastic composite cylinder    | 18, 24, 35, 47/      |                  |                           |
|    | Additionally: gas regulators, |                      | To each cylinder | Find some <i>examples</i> |
|    | valves,                       |                      |                  | with pictures below       |
|    | adapters,                     |                      |                  |                           |
|    | gas system                    |                      |                  |                           |
|    | connector,                    |                      |                  |                           |
|    | tourist plates.               |                      |                  |                           |
| 2  | Filling station               | Performance- any     | 4 at least       |                           |

## Domestic gas cylinders

| Nº | Name                                             | Volume<br>L | Country of manufacture | Appearance         |
|----|--------------------------------------------------|-------------|------------------------|--------------------|
| 1  | Propane plastic composite<br>cylinder with valve | 24          | India/Ukraine          |                    |
| 2  | Propane plastic composite<br>cylinder with valve | 35          | India/Ukraine          |                    |
| 3  | Propane plastic composite<br>cylinder with valve | 47          | India/Ukraine          |                    |
| 4  | Metal propane-butane cylinder                    | 27          | Bulgaria/Ukraine       | IPD NAH<br>AFE GAS |
| 5  | Metal propane-butane cylinder                    | 50          | Bulgaria/Ukraine       |                    |

| Gas regulators | - | Regulator type 694 Propan-butane household<br>purpose with pressure gauge up to 30mbar<br>Cavagna       |
|----------------|---|---------------------------------------------------------------------------------------------------------|
|                |   | Regulator Cavagna Italy. Propane-butane for<br>thermal heaters up to 500 mBar, 3 kg/h, G 1/4            |
|                |   | Regulator Cavagna Italy. Propane-butane<br>household up to 30 mBar, 1.5 kg/h                            |
| valves         |   | Oxygen valve Cavagna Italy                                                                              |
|                |   | Carbon dioxide valve with safety valve Cavagna<br>Italy                                                 |
|                |   | Medical oxygen valve W27,8 Cavagna Italy                                                                |
|                |   | Medical oxygen valve W19,2 Cavagna Italy                                                                |
|                |   | Adapter for refueling oxygen valves medicalCAVAGNA Italy                                                |
|                |   | Gas valve Cavagna Italy with safety valve<br>(W19.2 – 21.8 LH)                                          |
|                |   | Gas valve Cavagna Italy with safety valve<br>(W27.8 – 21.8 LH)                                          |
|                | Ŧ | Orson gas valve India with safety valve (W27.8<br>– 21.8 LH)                                            |
|                |   | Gas valve Cavagna Italy with safety valve for<br>Ragasco composite cylinders (W27.8 – 21.8 LH)          |
|                |   | Gas valve Cavagna Italy with liquid fraction<br>sampling valve on forklifts (W27.8 – 21.8 LH)           |
| Gas hose       |   | Gas hose for oxygen and other technical non-<br>aggressive gases Safegas, 6/9 mm.<br>In the bay – 50 m. |
|                |   | Gas hose for combustible gas (propane,<br>acetylene) Safegas, 6/9 mm.<br>In the bay – 50 m.             |
|                |   | Paired gas hose Safegas, For gas welding works.<br>6+ 6/9+ 9 mm.<br>In the bay – 50 m.                  |

| Adapters   | ~                                       | Propane-butane refueling adapter, for filling of household cylinders at AGZS                                            |
|------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|            | ~                                       | Propane-butane refueling adapter, for filling of household cylinders at AGZS (Poland)                                   |
|            | • † Ø                                   | Ramp nut                                                                                                                |
|            | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Refueling adapter for collet                                                                                            |
| Gas system |                                         | Regulator Cavagna Italy. Propane-butane up to 30<br>mBar, 3 kg/h, G 1/2                                                 |
|            |                                         | Controller with automatic switching of power<br>supplies Cavagna Italy. Propane-butane up to 30<br>mBar, 10 kg/h, G 1/2 |
|            |                                         | Rigid ramp for connecting 2 cylinders Cavagna Italy.<br>Propane-butane                                                  |
|            | « <del>* · · · · · · · ·</del>          | Rigid ramp for connecting 3 cylinders Cavagna Italy.<br>Propane-butane                                                  |
|            | 9 <del>4</del>                          | Rigid ramp for connecting 4 cylinders Cavagna Italy.<br>Propane-butane                                                  |
|            |                                         | Tee fitting valve (T-shaped) Cavagna Italy. Propan –<br>butane                                                          |
|            |                                         | Gas system (basic)                                                                                                      |
|            |                                         | Gas system with automatic switching between power supplies                                                              |