Questionnaire for Ordering Equipment of

Booster Pump Station, Preliminary Water Removal Unit (Tanks or Tube End Phase Splitters), Oil Treatment Unit, SBVG (Separation Unit for Oil with High Gas Factor)

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| **No.** | **Indices**  | **Values** |
| **1** | **2** | **3** |
| 1. \*
 | \*Throughput, m3/day (at t=20 оС, Р): |  |
| - liquid (oil + water) |  |
| - oil |  |
| - water (for GPS) |  |
|  | \*Pressure, MPa: |  |
| - at inlet to the plant |  |
| - at output from the plant |  |
|  | \*Temperature, °С: |  |
| - at inlet to the plant |  |
| - at output from the plant |  |
|  | Oil Properties: |  |
| - oil density, °С, kg/m3 |  |
| - viscosity, mm2/sec (MPa×с) | at 20°С |  |
| at 50°С |  |
| - component composition of in-place and degassed oil |  |
|  | \*Content, % weight: |  |
| - wax |  |
| - total sulfur |  |
| - mercaptan sulfur |  |
| - hydrogen sulfide |  |
| - resins and asphaltenes |  |
|  | Content of Mechanical Impurities in Liquid at Inlet To the Plant, mg/dm3  |  |
|  | Gas Composition (% mol) and Properties: |  |
| N2 (nitrogen) |  |
| СО2 (carbon dioxide) |  |
| \*Н2S (hydrogen sulfide)  |  |
| СН4 (methane)  |  |
| С2Н6 (ethane)  |  |
| С3Н8 (propane)  |  |
| iC4H10 (isobutane) |  |
| nC4H10 (n-butane)  |  |
| iC5H12 (isopentane)  |  |
| nC5H12 (n-pentane) |  |
| С6+higher (hexane)  |  |
| Gas Factor, m3 /ton (m3/m3) |  |
| Gas Density, kg/m3 |  |

|  |  |  |
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| **1** | **2** | **3** |
|  | Water Properties: |  |
| - stratum water salt composition |  |
| - рН |  |
| - density at \_\_\_\_\_ °С, kg/m3 |  |
| -total salt content, g/dm3 |  |
|  | Water Cut, % |  |
| - during the first year of operation |  |
| - by years of operation |  |
|  | **Requirements to Treatment Quality** |  |
|  **\*Output Oil:** |  |
| - water content, % |  |
| - content of chlorine salts, mg/dm3 |  |
| - saturated vapor pressure, mm Hg |  |
| **\*In-Place Water at Treatment Unit Outlet:** |  |
| - content of dissolved gas, l/m3 |  |
| - content of mechanical impurities, mg/dm3 |  |
| - content of oil products, mg/dm3 |  |
| **\*Associated Gas:** |  |
| - pressure at plant outlet, MPa |  |
| - content of dripping liquid, mg/dm3 |  |
|  | Oil Accounting: | - operational |  |
| - commercial |
|  | \*Indicate Gas Utilization Method: |  |
| - gas-diesel power station |  |
| - gas-turbine power station |  |
| - flare |  |
| - supply to Gas Processing Plant: | compressor-type |  |
| non-compressor type |  |
|  | \*Temperature of Product Operation Area: |  |
| - mean temperature of the coldest consecutive days, 0С |  |
| - absolute minimal temperature, 0С |  |
|  | \*Specify Type of Construction: |  |
|  - reconstruction |  |
|  - new construction |  |
|  | In case of reconstruction, please send the current process flow diagram of the project with a brief description of functions, list of basic technological parameters and equipment |  |
|  | Completion: (Availability of automation and control and measuring instruments, set of piping and stop valves, steps and service platform)  |  |
|  |  Anti-Corrosion Coating (suggestion) -outer -inner |  |
|  | The name of the design institute, contact telephone numbers |  |
|  | Whether additional services are required | Erection supervision |  |
|  | Start-up operations |  |
|  | Transportation (point of destination) |  |
|  | Requirements to control and measuring equipment and automation |  |