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 | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 | | |  |