

Clarification-1

Tender Enquiry No. PROC-FE-CB/PROD-4439/2019

Description : CPI Separator for produced water disposal system at Kunnar.

Bidder Query:

Please confirm the following parameters from end client in order to offer a feasible recommendation.

- *Flow rate (Design and Maximum.)*
- *Oil inlet concentration*
- *Specific gravity of oil at design temperature:*
- *Viscosity of carrier fluid in centipoise at design temperature:*
- *Suspended solids concentration (mg/l):*
- *Oil concentration and TSS limits in effluent (mg/l):*

➤ *CPI Separator are designed to remove the Free Oil and Total Suspended Solid (TSS). In your inquiry specification TSS are missing and but the TDS inlet content is too high (67.200 ppm). Please note that we cannot remove TDS with CPI Separator, if your target is that maybe you have to consider a Reverse Osmosis Plant. Moreover, the oil content is too high (1000 ppm) to be treated with CP, in this case we suggest to use a API separator to reduce the oil content, followed by CPI to reach the outlet specifications.*

OGDCL Clarification:

- Flow rates are already mentioned in the provided datasheet for CPI Separator (0404177-PRO-DT-002).
- Oil concentration in Influent and Effluent is already provided in the above mention datasheet.
- Vendor shall design the CPI Separator according to the properties at operating conditions that are already in the above mentioned datasheet. However, design temperature is provided for the mechanical integrity of CPI Separator.
- Since carrier fluid is water. Vendor choose viscosity for the water at operating conditions from m a range of 0.79-1cp.
- There are no suspended solids present in the feed for CPI separator.
- Our Primary Objective for CPI Separator installation is to remove free oil content. However, vendor can advise us removal capacity of TSS & TDS by the proposed CPI separator.