

Nr. inreg.: 37463 / 21. OCT. 2016

Referința: clarificari 3 DIALOG COMPETITIV – ETAPA I, organizat de CONPET SA in vederea atribuirii contractului de realizare a unei instalatii (sistem) pilot pentru detectarea si localizarea scurgerilor de produs din sistemul de conducte Poiana Lacului-Siliste-Ploiesti (proiectare, furnizare, instalare, configurare, testare)

Reference: Clarification answers 3 – COMPETITIVE DIALOGUE, organized by CONPET SA in view of awarding the works contract „execution of a pilot LDS for Poiana Lacului-Siliste-Ploiesti oil pipeline (design, supply, installation, configuration, testing)”

Urmare a clarificarilor solicitate de catre operatorii economici interesati cu privire la documentatia publicata pentru procedura de achizitie mai sus mentionata, va comunicam urmatoarele:

Following the clarifications requested by the interested economic operators on published documentation for procurement procedure mentioned above, we communicate the following:

1. Intrebare: Solicitam cateva clarificari privind Informatiile Tehnice (incluse in Sectiunea 3 din documentele furnizate):

4.2. Descrierea conductelor

Ne puteti transmite o schema mai detaliata a conductelor din care sa reiasa statiile care contin ventile de sectionare, gari de godevil, statii de pompare, statie de protectie catodica si tipul statiei: ex. subteran/suprateran sau cladire si daca este posibil si diagramele P&ID? Dorim sa aflam daca si unde sa instalam controlerile LDS si echipamentele de masura de inalta precizie.

Raspuns: Nu exista “block valve station” pe conducta. Exista ventile manuale de izolare ingropate de obicei la traversari de rauri sau drumuri. Exista gari de godevil in Poiana Lacului, Siliste pe F1 si F2 la intrare si iesire si Petrobrazii doar pe F2. Conductele sunt ingropate cu exceptia traversarilor de rauri. Cladiri exista decat in Poiana Lacului si Siliste. Va rugam sa primiti schemele tehnologice disponibile atasate (PFD includ tip pompa, capacitate mc/h, head, npsh etc.).

Vizita in teren: Pentru orice alte clarificari se vor organiza vizite in teren pe 2 si 3 Noiembrie 2016. Persoana de contact: ing. Cosmin Dumitran, Sef Serviciu SCADA si Automatizari, tel. +40 (0)728.993.780, mail: cosmin.dumitran@conpet.ro, CC: sinziana.zecheru@conpet.ro; florina.popescu@conpet.ro.

1. Question: Could we get a more detailed pipeline map showing block valve stations, Scraper stations, pump stations, Cathodic Protection station and the type of station: e.g. underground/over ground or building and if possible P&ID diagrams? We would like to know if and where to install our LDS controllers and high precision measurement equipment.

Answer: There are no “block valve station” on the pipeline. There is isolation buried hand valves mainly on crossings. There are scraper stations only in Poiana Lacului, Siliste on F1 and F2 inlet and outlet and Petrobrazii on F2 on the inlet. Pipeline are buried except the river crossings. There are buildings only in Poiana Lacului and Siliste. Please receive the attached available PFD’s (pump type, capacity in cm/h, head, npsh a.s.o.).

Site visit: For any other clarification site visit are organized on 2nd and 3rd November 2016. Contact person: Eng. Cosmin Dumitran, Head of SCADA and Automation, tel + 40 728 993 780, email: cosmin.dumitran@conpet.ro; CC: sinziana.zecheru@conpet.ro; florina.popescu@conpet.ro.

2. Intrebare:

4.2.1. Scenarii de pompare frecvente

Ne puteti transmite informatii detaliate cu privire la statiile de pompare (numar de pompe per conducta, tip, putere si capacitate/debit)?

Raspuns: Schemele atasate contin numarul de pompe, tipul acestora si capacitatea acestora (debitul). Cele trei pompe cu surub (F2) din Poiana Lacului au puterea nominal de 200 KW/pompa iar cele 2 pompe centrifuge (F1) au puterea nominal de 132KW. Oarja are o pompa cu piston cu puterea nominala de 80KW, Saru 2 pompe PCP de 66mc/h, putere nominal de 90KW. Bucsani are 2 pompe tip PCP (cavitati progresive), 30mc/h fiecare, cu putere nominala de 37 Kw fiecare.

2. Question:

4.2.1 Frequent Pumping Scenarios

Could we get also some more detailed information about pump stations (number of pumps per pipe, type, power, and throughput)?

Answer: The attached PFD's contain the number, type and capacity of pumps (flow). The three screw pumps (F2) from Poiana Lacului with the nominal power of 200KW and the two centrifugal pumps (F1) with the nominal power of 132KW. Oarja has a piston pump with the nominal power of 80 KW, Saru 2 PCP (positive cavity pump) pumps with the capacity of 66 cm/h and the nominal power of 90 KW. Bucsani has 2 PCP pumps, 30cm/h with the nominal power of 37KW.

3. Intrebare:

4.1.2. Sisteme de masurare automate

Pana in prezent nu detinem informatii cu privire la masuratorile de debit. Unde sunt instalate skid-urile de masura? Dorim sa stim locatiile pentru a decide daca si unde va fi nevoie sa instalam echipamente de masurare suplimentare? Ce tip de dispozitive utilizati in prezent (Coriolis, magnetic -inductiv, ultrasonic etc.)? Cum ne putem conecta la sistemul de masura automat pentru a primi datele disponibile in sistemul SCADA existent (ex. Modbus RTU sau TCP, IEC870-5-104)?

Raspuns: Sistemul de masura automat se refera de fapt la skidurile de masura. Conform cu Anexa 1 Skiduri de masura exista in Poiana Lacului pe F1 si F2 si la Siliste pe iesire. Acestea sunt de tip PD-meter (comunicatie Modbus RTU). Skidul din Siliste este folosit numai pentru pomparile din Siliste. Conexiunile se pot face local in cabinetul skidului de masura.

3. Question:

4.1.2 Automatic Measuring System

We have no information about flow measurements so far. Where the automatic measurement system kids are installed? We would like to know the locations to decide if and where we need to install additional flow measurements? What type of flow measuring is currently available (Coriolis, magnetic inductive, ultrasonic, etc.)? How we can connect to the automatic measurement system to receive data available in the existing SCADA (e.g. Modbus RTU or TCP, IEC870-5-104)?

Answer: Automatic measuring system actually refer to metering skids. According to Annex 1 there are metering skids on the outlets only on Poiana Lacului F1 and F2 and in Siliste. Type of the meters are PD-meter (Modbus RTU). The metering skid from Siliste it is used only for pumping from Siliste. The connections can be made in the metering skids cabinet on site.

4. Intrebare: pct. 5. Specificatii cu privire la implementarea sistemului

Care este calitatea titeiului pompat din diferite locatii in rafinarie? Dorim sa ne comunicati densitatea titeiului pompat pe fiecare ruta de transport.

Comunicatia de date mobile GSM acopera toate segmentele de conducta planificate? Sunt disponibile alte sisteme de comunicatie bazate pe IP (sisteme de comunicatii pe baza de fibra optica, care pot asigura comunicatii bazate pe IP catre sistemul SDSL principal)?

Raspuns: Conform cu Anexa 3 densitatea titeiului la 15 grd C, vehiculat variaza intre 830 si 940 Kg/mc. Conform datelor inregistrate in Scada "Densitatea Statiei" (valoare instantanee) asa cum este ea inregistrata pe skidurile de masura in Poiana Lacului este F1 733-959kg/mc si F2 822-957kg/mc.

Este acoperire GSM in statiile de pompare si in zonele cu claviaturi. Testele efectuate cu terminale mobile in fiecare locatie vor fi furnizate pentru informare la deplasarea in locatie.

Porturi de telecomunicatie IP pe retea VPN dedicate, prin sistemul de telecomunicatie Conpet, pot fi puse la dispozitie in Poiana Lacului (in approx. 60 de zile), Siliste, Petrobrazi (approx. 2km) si in Ploiesti Sediul 2.

4. Question: 5. Specification of implementing the system

What is the quality of the crude oil pumped from the different locations to the refinery? We would like to know the density of the crude oil which is pumped per transport route.

Does GSM coverage for mobile communication for all planned pipeline segments exist? Are there other IP-based communication systems available (fiber Optic based communication systems which can provide IP-based communication to the main SDSL system)?

Answer: According to Annex 3 the corrected density at 15dgr C varies between 830 and 940kg/cm. According to the recorded historical data within SCADA, the metering skids "Station density" (instantaneous density) in Poiana Lacului is F1 733-959kg/cm and F2 822-957kg/cm.

There are GSM coverage for pipeline at the inlet, outlet (pumping stations) and at the manifolds. Tests made with hand held terminal will be forwarded during site visit.

IP-Based communication port, on VPN based on CONPET telecom system can be provided in the following locations Poiana Lacului (in 60 days from now), Siliste, Petrobrazi (2km) and Ploiesti Headquarter 2.

5. Intrebare: Va rugam sa specificati in detaliu care sunt cerintele de disponibilitate ale sistemului de detectare scurgeri (LDS): "Trebuie asigurata continuitatea functionarii sistemului in cazul in care apare o defectiune la sistemul de comunicatii sau la orice alt instrument." In cazul in care controlerul LDS nu este conectat la sistemul LDS, atunci sistemul de detectarea scurgerilor nu va functiona pentru acest segment de conducta. Functionalitatea Sistemului LDS, totusi, pentru toate celelalte segmente de conducta nu va fi in niciun fel influentata – sistemul va functiona corespunzator. Asadar, interpretarea noastra este ca "sistemul LDS va functiona corespunzator pe toate conductele care nu sunt afectate de defectiune...." Va rugam sa ne confirmati ca interpretarea noastra este corecta.

Raspuns: In cazul in care granularitatea controlerelor LDS este de 20-25km si pe un segment de 50 km controlerul din mijloc nu are comunicatie (chiar daca este redundanta) segmentul isi pierde din precizia de localizare dar continua sa detecteze potentialele avarii/scurgeri. In cazul in care este controlerul din capat segmentul respectiv nu va fi monitorizat.

5. Question:

Chapter 6

Please specify in more detail the requirement of availability of the LDS system: "The system must continue to function if a malfunction occurs to the communication system or to any other instrument." If a LDS controller is not connected to the LDS system, then Leak Detection will not work for this pipeline segment. The LDS function however for all other pipeline segments are not influenced and will work properly. So our interpretation is that "LDS system should work properly for all pipelines those are not affected by a malfunction". Please confirm our interpretation?

Answer: *In case that the granularity of the LDS controllers is 20-25 km and in one segment of 50km the middle controller does not have communication (even if it is redundant) the segment loose the initial accuracy but continue to detect potential damages/leakages. In case the controller affected is first the respective segment cannot be monitored.*

6. Intrebare:

„In locatiile din teren de unde sistemul colecteaza informatiile de proces...”

Senzorii de proximitate si cei montati la intrari fac obiectul contractului? Sau trebuie sa achizitionam noi senzorii din controlerile noastre LDS pentru transmitia catre sistemul principal? Camerele cu senzor montat pe gard si camerele PTZ fac obiectul contractului? Trebuie sa fie sistemul in vreun fel conectat la camerele PTZ pentru a transmite fluxuri audio si video catre dispeceratul central?

Raspuns: *In toate locatiile senzorii de proximitate si de deschidere usa si in scopul contractului. Gardul si camerele video PTZ sunt solicitate in locatiile din camp sau oriunde nu este gard si exista pericolul ca echipamentele sa fie furate sau deteriorate.*

6. Question:

"In field locations from where the system takes process information ..."

Do proximity and door sensors belong to the scope of supply? Or should we acquire the signals in our LDS controllers for transmission to the main system only?

Do fence and PTZ camera belong to the scope of supply? Should the system be anyhow connected to the PTZ camera to transmit the video or picture streams to the dispatch center?

Answer: *In all the location proximity sensors and door opening sensors are in scope of supply. The fence and PTZ cameras are required in the field and in any location where there is possibility for damage or theft.*

NOTA: *Va amintim ca documentele ofertei se depun in limba romana, completate si semnate in original si traduse autorizat.*

NOTE: *Remember that tender documents be submitted in Romanian, filled in and signed in original and in authorized translation.*

Anexe:

1. Amplasare statii de protectie catodica
2. Schema tehnologica – Statie Petrobrazii
3. Schema tehnologica – Statie Poiana Lacului
4. Schema tehnologica – Statie Siliste.

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CUI: 1350020; Cod CAEN 4950; Înregistrată la Registrul
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Capital social subscris și vărsat 28 569 842,40 lei

*Annexes:*

1. Cathodic protection stations
2. Technological scheme – Petrobrazi Station
3. Technological scheme – Poiana Lacului Station
4. Technological scheme - Siliste Station.

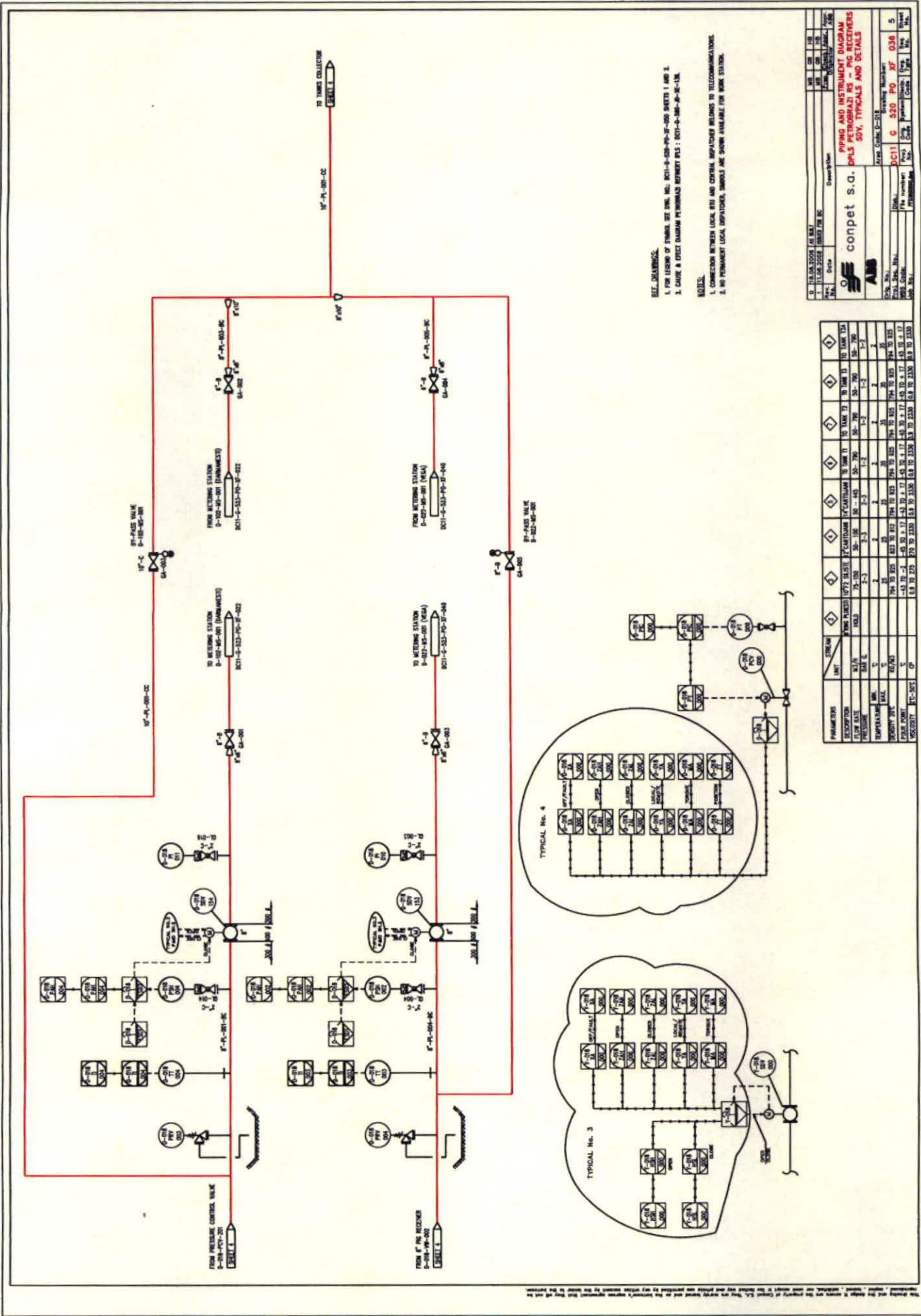
*Va mulțumim.
Thank you.*

SEF SERVICIU ACHIZITII
Ing. Florina Popescu

SERVICIUL ACHIZITII
Sînziana Zecheru







- LEGEND**
1. FOR LEGEND OF SYMBOLS, SEE ENCL. NO. DC11-6-520-P3-2-500 SHEETS 1 AND 2.
 2. CAUSE & EFFECT DIAGRAM PERMANENT REPORT P3: DC11-6-520-P3-2-500.
- NOTES**
1. CONNECTION BETWEEN LOCAL RTU AND CENTRAL DISPATCHER BELONGS TO TELECOMMUNICATIONS.
 2. NO PERMANENT LOCAL DISPATCHER, SIGNALS ARE SHOWN AVAILABLE FOR METER STATION.

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