

COATED CORING SERVICE FOR 2 YEARS PERIOD

TECHNICAL SPECIFICATIONS

This service includes provision of personnel and equipment to perform coated coring services in 8 ½" 6" hole sections during 2 years in onshore Turkey.

Objectives of Service

- Selection of equipment and core heads. First selection of equipment will be made before the mobilization of equipment, in coordination between COMPANY and CONTRACTOR representatives, and will include submission of equipment history and inspection reports.
- Check of equipment before coring and establishment of an equipment description sheet by the coring engineer on the rig site.
- Selection of core heads, special equipment, BHA and coring parameters to be discussed with COMPANY and drilling contractor's representatives.
- Selection and justification of optimum POOH speed for each interval considering core structural and mechanical integrity and time.
- Picking up and making up of core barrel.
- In case there are problems associated with core slabbing at COMPANY's Lab, CONTRACTOR will provide technical support for taking the cores out of liners free of charge.
- Assisting the driller on the rig floor during the coring operations including the trip if there are any specific problems such as reaming, washing down or over pull.
- Recovering the core and laying down the core barrel utilizing core support cradles.
- Cutting (if needed) as per the instructions of the geologist and packing the core.
- Identifying jamming, breaking on the core.
- Perform the core processing e.g. gamma logging, foam stabilization and wax preservation.
- Establishing a complete coring report, including a penetration log, a coring log and a coring summary.
- CONTRACTOR will be responsible for transportation of its EQUIPMENT, spare parts, consumables, and PERSONNEL between CONTRACTOR's base and RIG.
- Achieve maximum recovery by utilizing coated inner liner.
- Good preservation of the core until to the final destination which is the core lab of TPAO Ankara Research Center. For further investigation without damaging at the laboratory, inner liners must be splittable into two half at the surface.

The coring service offer must include:

- Appropriate length of coring BHA for cutting core as **4" for 8 1/2" hole and 3 ½" for 6" holes** incl. back up;
- Suitable crossovers for the given BHA;
- Sufficient amount of core head incl. backup;
- Sufficient amount personal for coring and core processing;

- Circulation and float sub;
- Core recovering handling equipment;
- Core processing cradles;
- Air driven core saw;
- Pump out unit;
- Measuring and marking the core;
- Caps and Clips;
- Gamma Logger;
- Foam Stabilization;
- Wax preservation of one-meter sections;
- Core container incl. shock absorbing foam;
- 24h/7 operation office support;

Lithology at coring interval

- Will be determined later

DURATION OF THE AGREEMENT

The duration of the Contract is two (2) years.

EXECUTION OF WORK

Call out notification

The commencement date is accepted as contract signature date. Contractor shall be ready and fully functional in Turkey no longer than 4 weeks past commencement date.

For each well, Contractor shall take all necessary actions and start preparations ASAP upon TPAO's call out.

Upon TPAO's call out, Contractor shall be ready on the rigsite together with the tools and personnel within 3 days.

Call out notification by company by any means of channels stated in the contract shall be accepted as an official work order to commence work.

PRICING INFORMATION

Bidder's commercial quotation is prepared as unit price bases. In the cost sheet, quantity of materials, operating time, operating length were given by estimating with evaluation of the example of the previous DD jobs in TPAO's well. So quantity of materials, operating time and operating length are particularly uncertain.

In bidder's commercial quotation; the mobilization item for equipment shall mean the arrival of the required tools for required hole size from Contractor's base located in Turkey to the pointed worksite. The demobilization item for equipment shall mean the removal of the used tools from pointed worksite to Contractor's base located in Turkey. The evaluation will be made according to the Total Price.

Please prepare the proposal using the provided excel sheet. If you have any questions or concerns, please contact us.

Please include your ETA (Estimated Time Arrival) information in your proposal sheet.

Please DO NOT CHANGE EXCEL FORMULAS.

Please prepare your quotations regarding to the **terms & conditions** stated below:

- 1) TP will **NOT** pay any **DBR (Damage Beyond Repair)** charge for Contractor's equipment. In case of acidizing operations, Company may require Contractor to provide 3rd party inspection reports evidencing the DBR is caused by acidizing operations. As a result of the inspection report or determination by TPAO, if DBR is found to be caused by acidizing operations, upon Company's approval a DBR cost may be paid.
- 2) TP will **NOT** pay any **REDRESS** charges for Contractor's equipment.
- 3) TP will not pay **STAND BY** charges for Contractor's equipment.
- 4) Partial quotation is not going to be accepted.
- 5) Equipment's daily operating rate will only be applied when the equipment is below rotary table. Partial days will be calculated as a full operating day for the first day. For jobs lasting longer than one day, hourly rates are charged.
- 6) Personnel charges will start with the arrival of personnel to the location and continue until the release from worksite. Company representative should be responsible to send release notice to Contractor side prior to complete the job. If the Contractor's tools pulling out of hole is completed after 15:00 o'clock and Contractor's personnel couldn't leave the worksite at the same day then, TPAO accept to pay daily operational charge of personnel for the next day when they leave from worksite. If the Contractor's tools pulling out of hole is completed before 15:00 o'clock, TPAO doesn't accept to pay operational charge of personnel for the next day even if personnel leave the worksite on next day.
- 7) Only daily rate proposals will be accepted. Alternative proposals will not be evaluated.
- 8) The operating day in the sheets is assumed value (just for cost comparison) so it may be different than drilling program & actual value which might be more/less. In addition, TP will NOT accept any change in operating rate which means rates in the proposal sheet will remain same in case of exceeding estimated day.
- 9) All related personnel will be provided from Contractor.
- 10) It is required to use splittable inner liner in both sections.

- 11)** Mobilization & Demobilization of the equipment will be lump sum which means any other additional price except the amount in the proposal sheet will NOT be accepted by TP unless any major change in well program approved by TP. In case of unsatisfactory performance of Contractor's equipment, Contractor shall replace such equipment at no cost (mobilization, demobilization, import- export etc.) to TP.
- 12)** There is no work guarantee, but it is thought that 600 meters of core will be taken in 8 1/2" section and 400 meters of core will be taken in 6" section in 1 (one) year. The cost sheet was created according to this prediction.
- 13)** All meterages mentioned in these technical documents are accepted as drilled meterages.
- 14)** Inspection reports of the tools will be required during planning and programming phase or whenever TP request. Technical data sheets of the tools must be supplied to TP with in a CD or USB that Contractor is proposing to provide.
- 15)** Contractor will have to use their proposed tools/ equipments whose technical informations correspond to TP's requirements declared in tender documents. Contractors aren't allowed to use any different equipments/ tools than they proposed which are submitted within a CD/print out.
- 16)** Minimum 4 year experience in the related job is required for the day engineer personnel. Minimum 2 year experience in the related job is required for the night engineer personnel CV's will be supplied to TP for approval before the job start and TP has right to change the unqualified personnel.
- 17)** As per the established requirements, each job necessitates the presence of 3 (three) personnel as 2 engineers and 1 technician. However, for low-meterage jobs, an exception may be made, allowing for 2 (two) personnel, provided that prior approval is obtained from TPAO.
- 18)** Daily job tickets and daily reports will be prepared by contractor personnel and signed by Company field representative on daily basis. Then will be forwarded to TP Headquarters via e-mail.
- 19)** Contractor shall pay custom duties and import fees or similar charges for the importation of the goods to be used in this project.
- 20)** All the prices that is proposed for tools, personnel and other items shouldn't be higher than in the MSA's price list.
- 21)** In the event that TPAO cannot be able to retrieve the tools (BHA Assembly and Drill string) LIH prices will be applied and Contractor will not charge operating rates for the tools during fishing operations.
- 22)** In the event that TPAO is able to retrieve the tools (BHA Assembly and Drill string), Contractor will charge %30 of daily operating rate for the days of fishing operations.
- 23)** In the event that NPT(non productive time) is caused by failure of Contractor's equipment, TP shall pay zero rate for the equipment for the duration of the NPT that is caused by Contractor's equipment. The duration and proof of failure shall be documented and reported to both Contractor and Company by Company representative at the work site within 3 days of the occurrence of the failure.
- 24)** Company may terminate contract/ work order any time with prior written notice in accordance with the terms of the applicable MSA.