

## **گزارش شناخت برگزاری مناقصه اجاره یک دستگاه دکل حفاری دریایی ۳۵۰ فوتی و یا بالاتر با کانتیلیور ۷۰ فوتی / مناقصه عمومی دو مرحله ای**

### **۱- عنوان، مشخصات کلی، اهداف کیفی و کمی فعالیت**

با توجه به برنامه ریزی انجام شده بر اساس برنامه های مصوب حفاری، به منظور استمرار عملیات حفاری، تعمیر و ایمن سازی چاهها در راستای اجرای برنامه نگهداشت و افزایش توان تولید اجاره یک دستگاه دکل حفاری دریایی ۳۵۰ فوتی و یا بالاتر با کانتیلیور ۷۰ فوتی مورد نیاز می باشد. همچنین با توجه به دکل های موجود در ناوگان شرکت نفت فلات قاره ایران، به منظور انجام عملیات حفاری و تعمیر چاهها، اجاره دستگاه فوق الذکر مطابق شرح کار اعلام شده به پیوست ضرورت خواهد داشت. نحوه واگذاری به صورت مناقصه عمومی دو مرحله ای و با حضور شرکت های داخلی و نوع هزینه ارزی می باشد.

### **۲- سازمان کارفرمایی**

شرکت نفت فلات قاره ایران، مدیریت امور فنی

### **۳- برنامه زمانی کلی اولیه**

مدت چهار سال (۴۸ ماه)

### **۴- اطلاعات تأمین مالی پروژه**

تخصیص از محل اعتبار برنامه مصوب ۳ ساله حفاری در طرح نوسازی و نگهداشت تولید (منابع داخلی)

### **۵- اسناد فنی و نقشه های لازم**

مشخصات فنی مورد نیاز شامل شرح کار، جداول نرخ، شرایط خصوصی و ... به پیوست ارسال می گردد.

## ۶- برنامه تدارکاتی پروژه

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## ۷- قوانین خاص و مقررات اختصاصی پروژه (نظیر بیمه یا الزامات ایمنی و

زیست محیطی خاص):

- الزامات HSE

شرح کار

**Scope of Work**

## A. PREFACE

The information herein provides an overall view of the Iranian Offshore Oil Company's projects to the prospective Contractor:

Iranian offshore oil company (I.O.O.C), in order to achieve the targets of its commitment production in its own Oil and Gas-fields in Persian Gulf, intends to hire one Offshore Drilling Jack Up Unit (MODU with at least 350 ft. operational water depth) **manufactured equivalent or newer than 2005 (Rig shall have a valid Certificate of Fitness)** suitable for Persian Gulf's conditions and its deep water for **4 years contract (48 Month)**.

Proposed drilling unit shall be furnished with experienced Personnel having valid certificates including IWCF (or WELLCAP) , BOSIET ,HUET, Offshore working permit, health ticket and all necessary facilities, tools and Equipment as hereinafter is mentioned to properly perform drilling/workover operations against to the latest international standards.

**Proposed drilling unit shall have a drilling package/cantilever with at least  $\pm 70$  feet applicable skid out and 20 feet off center skid capability**

### General Environmental condition

Water depth:	up to 300 feet
Max wind in area	30 m/sec (gust)
Max wave	+12m
Wave period	11sec
Max summer temp	50°C
Max humidity	100%

## B. GENERAL Terms

1. The project is based on a daily rate, according to the terms and conditions of contract.
2. The Contractor is responsible for providing one Mobile Offshore **Drilling Unit with the specifications declared in this tender documents** for the Work under a program approved by the Company in such timely manner that no delays occur in the Work and:
  - a) Rig-Up on Location,

- b) Drilling of all new well(s) and/or workover/re-entry of all old well(s) as specified by Company on different Company's fields,
  - c) Testing of wells as specified by Company,
  - d) Completion of wells as specified by Company,
  - e) Suspension or plug and abandonment of wells as specified by Company,
  - f) Assistance (provide attendance and facilities) to Company's Drilling Services Contractors (Third Parties) in performing their services on the Unit,
  - g) Moving the Rig to the new location as specified by Company,
3. The duties and responsibilities of the Contractor include but not are limited to the followings:

**3.1. General Responsibilities**

- 3.1.1. Organize a team of fully qualified Personnel for preparing and management of the Drilling Unit. contractor shall submit **Key Personnel Resume and valid related certificates** in its Technical proposal.
- 3.1.2. Set up the necessary Base & warehouse in Persian Gulf Area to accommodate any materials, goods, and services related to Drilling Unit.
- 3.1.3. Assign qualified Personnel to coordinate the provision of these services with the Company Representative on the Well site and Company Representative.

**3.2. Responsibilities on the Drilling Unit:**

- 3.2.1. Submit a daily and monthly report to Company Representative showing all Service Contractor's Personnel and machinery on the Drilling Unit during their use and lengths of their operation/standby on the Drilling Unit.
- 3.2.2. Provide Facilities and services during the performance of the Work at the Drilling Unit as set out below:
  - a) For Company Drilling Supervisor – Geologist Supervisor (Each one separately) , air-conditioned fully furnished office spaces. The drilling supervisor's office shall directly view the rig floor and have a standard dimension with at least 10 square meters of office spaces. These offices are separate from Company representative's bunkhouses.

- b) The drilling supervisor's office shall be equipped with two sets of All-In-One desktop computers. The minimum specification of these computers are as follows:

CPU= Core-i7 RAM= 8GB Cashe= 16MB Screen= 27" HDD= 1 TB SSD + 2 TB HDD

- c) Availabilities of necessary radio and other telecommunication/telephone (Satellite telephone for the use of senior/junior drilling supervisors) facilities for company personnel free of charge.
- d) Safety and protective clothing for Company personnel, including safety helmets, boots, glasses, gloves, and coverall suit as required.
- e) Bunkhouse for Company personnel with all related services and facilities

### **3.3. Responsibilities on the Base**

- a) Coordinate the requirements of the services to be supplied from the Base and ensure that the arrangements for delivery of Equipment, machinery and tools to the Base for dispatch to the Drilling Unit are performed in such a timely manner to any delay.
- b) Have a Central Office in Tehran for local Contractor. The Contractor Manager should participate in COMPANY Drilling Operation meetings when required.
- c) Contractor shall provide, maintain and keep available all safety appliances required by law and those necessary under the oil field and engineering practice and NIOC Procedures to protect the Company and Contractor's Personnel, Material, and Equipment.
- d) The Contractor shall have full responsibility of Contractor's drilling operations to take any and all appropriate steps to comply with any and all provisions regarding health, safety and environment.
- e) Contractor shall furnish Personnel for carry out the Work.

### **3.4. The Contractor warrants to:**

- 3.4.1. Possess the skilled Personnel and Equipment necessary for performing or carrying out the Work or other work essential ancillary thereto.
- 3.4.2. Take total responsibility for carrying out the Rig Services & Maintenance so that there shall not be any delays or waiting time due to lack of water, materials, Spare parts, Equipment or those services provided by Contractor during the performance of the Work.
- 3.4.3. Contractor should provide certificates of personnel according to their position

3.4.4. Documentation to be provided by Contractor as in both softcopy(CD) and hardcopy:

- Contractor's Safety Management System
- Contractor's QA - Manual(s)
- Contractor's Drilling Units Operating Manual(s)
- Vessel specification(include minimum company requirement specification)
- Contractor's Drilling Unit Safety Manual(s)
- Contractor's Drilling Unit Maintenance Manual(s)
- C.V & certificates of Contractor's Personnel
- General Drawings of the Drilling Units.
- Drilling equipment inspection's valid document,
- Handling equipment inspection's valid document,
- Safety inspection,
- Rig technical specification
- Last Rig Main Component overhaul and Maintenance and Shipyard/Dry dock documents.
- NPT formal report in last year of his last contract.
- Rig should have ABS (or any valid ) certificate

3.4.5. During Operational Period Contractor is responsible for Inspection of Drilling String (on his own cost) periodically (each nine months) and lifting slings and cranes as per API standards and submit the report.

## **C. WORK SPECIFICATIONS**

### **1. Objective/ Scope**

The scope of Work for the Contractor is to provide at well Site one Drilling Unit and Equipment to cover the objectives of Company. The wells will be drilled/re-

entry/workover in COMPANY specified offshore fields in accordance with the well program. However, this program can be changed at the discretion of COMPANY. The Drilling Units will be mobilized at Persian Gulf in and around Iranian Border.

### 1.1. General Well Specification

Depth	UP TO 5000 Md
	TD Section: +/- 1500 mt
Hole sizes	36" to 4-1/8" H.S
Well deviation	0-90
Mud type	All types of WBM, OBM
Mud Density	56 PCF to 150 PCF
Mud viscosity	38 to 70 sec
Mud Solid Content	4% to 45%
Potential Problems	H <sub>2</sub> S, Loss, Flow, Chert, stuck, twist off
Casing Spec.	30", 20", 18-5/8", 13-5/8", 13-3/8, 9-5/8, 7, 5, 4-1/2 slot, 3-1/2", 2-7/8"
Completion	Mono bore, dual, etc.
Max shut – in W.H.P	10,000 psi

Drilling is to be carried out using conventional mud drilling fluid (Water Based). COMPANY's subcontractors have responsible for mud services but preparation of mud material space, handling and conditioning services shall be the responsibility of Contractor under the supervision of COMPANY. COMPANY will provide mud chemicals.

Material Safety Data Sheets (MSDSs) for all products supplied by the Contractor (if any) that are to be used will be made available at the Rig by the Contractor.

Contractor shall utilize Equipment and Personnel described in this contract respectively, as a minimum, to carry out all operations required to drill, test and case the well(s) or perform repair operations at the well(s) at locations designated by COMPANY.

Contractor shall implement the drilling program agreed with COMPANY prior to spud in over the well. COMPANY reserves the right to change/modify the drilling



programs as and when required. Contractor shall drill each well to the depth specified by COMPANY.

**Geophysical Logging (enough space on Rig), Well testing stimulation** allow use of Rig and Equipment and Personnel for well testing.

شرایط خصوصی

**Particular Conditions**

## **1. Mobilization**

- 1.1.** Contractor shall provide the Drilling Unit, which is appropriately equipped to perform the Work. All necessary drilling and associated Equipment, spare parts, materials, expendable and other supplies and personnel as set out in this Contract shall be mobilized with the Rig at Site. (as per responsibility allocation of the matrix of responsibility)
- 1.2.** Before Mobilization, Contractor shall, at its own cost, make the necessary alterations, modifications, or additions to Contractor's Rig and Equipment to meet the full compatibility of Company's operational needs.
- 1.3.** Before Commencement Date, Contractor shall demonstrate to the satisfaction of COMPANY, or COMPANY nominated third party inspection agency, the functional and pressure testing and Non-Destructive Test (NDT) of all rig equipment and tubular. All deficiencies that could prevent Equipment from being used for its intended purpose shall be corrected to COMPANY satisfaction before Mobilization, at Contractor's cost. The possible third-party inspection services requested explicitly by COMPANY shall be included in rig rate cost.
- 1.4.** Completion of Mobilization shall include the arrival of the Equipment at the Work Site, all permits, clearances, licenses required under Iranian laws obtained, inspection and acceptance of the Rig by COMPANY and Rig is positioned and spudded in over the specified location by the COMPANY and ready to start operations on the first well.

## **2. Demobilization**

"Commencement of Demobilization" means the date and point of time when the last well is completed/terminated or the well is plugged and abandoned as per COMPANY instructions. No compensation will be made for Demobilization. Irrespective of the next rig location, Contractor is responsible for the Demobilization of the Rig. After rig release, Contractor must demobilize its Rig within 30 days.

### **3. Incomplete Work**

- 3.1.** No well shall be left incomplete by Contractor before reaching target depth as given by COMPANY. If a well is abandoned due to the Contractor's gross negligence, a new well shall be drilled by Contractor. No payment shall be made for the drilling of the abandoned well to Contractor.
- 3.2.** Contractor shall be solely responsible for covering all the wells on the nominated platforms to perform all the required operations as per well programs.

### **4. Weather**

Contractor shall inquire and analyze weather conditions daily at its expense, and it should be reported to COMPANY's representative on a daily basis.

### **5. Instructions by COMPANY**

Contractor shall follow COMPANY instructions consistent with this Contract. Such instructions will be confirmed by COMPANY under the terms of this Contract and may include instructions on drilling methods or stoppage of operations in progress.

### **6. Well Program**

For each well, COMPANY shall provide Contractor with a "Well Plan" which shall include (but not necessarily limited to) the activities like Drilling Rig positioning, drilling, casing, testing and stimulation of well, plugging & abandonment, and the details like well depth, hole sizes, drilling fluid program. COMPANY may modify these Well Programs any time before or while operations are in progress. COMPANY has the right to terminate the drilling and complete/abandon the well at any depth. COMPANY shall provide details of the various tests to be carried out by COMPANY or COMPANY other Contractor (s) using Equipment during Work performance.

## **7. Scope of Operations**

Contractor is responsible for complete operations of the Rig, and overall supervision/direction of preparation of Rig move during Mobilization at first well location, inter location move and Demobilization from the last Well location. (as per responsibility matrix)

Contractor shall carry out all activities in accordance with the latest international Oil and Gas wells industry practices, IOOC Drilling Policy and ensure that safe conditions and methods of Work are provided and maintained for the entire period of operations with crew compliance to safety and procedures.

Contractor shall store and maintain a readily available stock of maintenance and repair parts, tools, and operating supplies on the Rig sufficient to ensure the Equipment's continuous operation.

Contractor shall provide the consumables and lubes requirement for the Rig, operations, and associated Equipment at his own cost and responsibility.

- 7.1 The Contractor shall provide a Pick-up Truck (shall be approved by Company) without driver for the transportation of operational personnel. The truck shall be available 24 hours a day throughout the duration of Contract. The location for its use will be one of the Company's operational areas (Bahregan, Kharg, Lavan, Sirri, Qeshm, and Kish) which will be determined by Company. Contractor shall compensate all Costs related to Repair, maintenance, insurance, etc. Company is responsible for providing fuel for the truck.

## **8. Work Schedule**

Work shall be performed 24 hours per day, 7 days per week basis throughout the term of this Contract. Day for all purposes, including reporting, shall mean a continuous period of 24 hours commencing from 00:00 AM to 00:00 AM of next day or as mutually agreed upon.

## **9. Depth Measurements**

Contractor shall be able at all times to indicate the exact measured depth of the well. Contractor shall measure with a steel tape and keep a record of the length of drill string, casings and other tools run in the hole.

A drill pipe tally/tubing tally/casing tally book will be kept on the Drilling Unit. It will accurately show the length of every single tubular, the length of sub/crossovers and tubing etc. It will show a drawing of the bottom hole assembly indicating more particularly the different inside, outside diameters, size and type of threads, fishing neck details and such other information as required by COMPANY. All length measurements shall be in Meter.

All measured depths shall be with respect to RKB level.

## **10. Fishing Operations**

Contractor shall provide and maintain all the fishing tools, accessories and spare parts necessary to recover his own down hole tools and shall ensure those fishing tools are continuously available on worksite as specified in technical specification and shall carry out all fishing operations as and when required. In case of downtime due to non-availability of standard fishing tools as specified in the technical specification, repair rate conditions will be applied until operation resumes. Contractor shall carry out /direct all fishing operations under the overall supervision of COMPANY representative or COMPANY other Contractor's specialist/supervisor.

## **11. Casing/Tubing Handling Equipment**

Contractor shall provide and maintain at its expense all the casing/tubular Clamps and slips (as per regular operational offshore rig inventory) for Casings and Tubular, which are to be used for the performance of Work.

**12. Casing/Tubing Running Services**

Contractor shall be responsible for casing lowering preparation including but not limited to removing of thread protectors, cleaning of threads with diesel including the visual inspection for any damage to the threads, drifting of the casing / tubing, accurate measurement with steel tape, preparation of the casing/tubing tally, proper stacking in order of casing / tubing lowering program and makeup of float shoe, float collar and other accessories.

**13. Well Logs**

Contractor shall assist COMPANY or other subcontractors in preparing an accurate log of the well, giving depth and thickness of each formation from the surface to the bottom of the hole and any other pertinent information concerning the well.

**14. Abnormal and Hazardous Formation and/or Conditions**

Suppose at any time Contractor considers that continuation of the operation will result in abnormally hazardous conditions. In that case, it shall immediately notify COMPANY Representative at the well Site and, in the meantime, without undue delay, exert every reasonable effort to overcome potentially hazardous conditions.

**15. Records to be furnished by CONTRACTOR**

Contractor shall maintain a complete and accurate log of daily operations on the approved International Association of Drilling Contractor (IADC) daily drilling report. Each day the Contractor shall furnish COMPANY Representative at Drilling Unit with a clean and legible copy of the daily drilling report (IADC form) in triplicate for his approval and signature. COMPANY Representative will retain one copy for COMPANY record and return the remaining two to the Contractor.

Contractor shall keep and furnish to COMPANY additional IADC reports including, but not limited to, bit records, deviation discs or charts, weight indicator, pump pressure, ROP, RPM, SPM, torque indicator charts, and all other relevant records and data.

Upon completion or abandonment of each well, all data and copies thereof pertaining to the geology and formations encountered in the well which is in Contractor's possession shall be delivered to COMPANY.

Before Mobilization, Contractor shall furnish a list of all major items (spare parts, expendables, and consumables) to COMPANY, which the Contractor intends to bring with the Drilling Rig.

Contractor shall furnish to COMPANY on a fortnightly basis, statements and log books pertaining to the Rig machinery's maintenance, spare parts, and consumables indicating areas of concerns /improvements and forecast of maintenance /spare parts and work programs.

Contractor shall also maintain all relevant records at the Site, including but not limited to Health Safety and Environment (HSE) records required to be maintained as per the standard practice of offshore, kick control drills, firefighting drills, and work permits, for periodic safety audit by COMPANY. Contractor shall observe safety procedures as per Company's HSE regulations.

## **16. Moving between locations**

During this Contract's duration, COMPANY has the right to relocate Contractor's Rig, Equipment and Personnel and COMPANY furnished Equipment to any other well location within and between the fields to perform the Work at any other location. Equipment and personnel (exception of tug boats) required for Mobilization, in field Rig Move, and Demobilization of Rig & Equipment is the sole responsibility of Contractor. The Contractor is fully responsible for the inter location movement of the Rig and associated Equipment or movement from one well to another. Contractor



shall be totally responsible for any damage (say damage to Equipment and personnel of Contractor, Company, Other Company's Contractors, public property) due to the inter location movement. Any taxes or compensation due to any damage caused by Rig movement is to be borne by the Contractor.

During the rig move, if the operation is halted due to weather conditions, for the first 48 hours of such pause only the standby rate will be paid by Company to Contractor. For more than 48 hours up to 30 days, force majeure rate will be paid by Company to Contractor and for durations more than 30 days no payment is compensated.

The time duration between rig releases from one well and rig spud on the next well shall be known as rig move operation for which moving rate shall be paid by Company to Contractor. Time duration for each rig moving operation is determined in the well drilling/workover program which is provided by Company to Contractor. If the total time duration of each rig move operation (not including any pause due to weather conditions or due to reasons attributable to Company) exceeds the time mentioned in well drilling/workover program, no payment is compensated by Company to Contractor for that extra time.

## **17. Accident Reporting**

Contractor shall immediately report to COMPANY all accidents/incidents that result in injury to a person or damage to property, no matter how insignificant. Near misses shall also be reported.

COMPANY shall also be informed when any person returns to work after having time off due to an accident. Contractor shall co-operate in any subsequent accident investigation(s).

Contractor shall keep its safety and accident records according to the law of offshore and according to guidelines provided by COMPANY and shall make these records available to COMPANY/statuary authorities.

## **18. Environment**

During operation, contractors must comply fully with applicable environmental laws,

regulations, and practices by acting to preserve air, water, animal, marine and plant life from the adverse effects of Work and to minimize any nuisance that may arise from such Work.

Contractor shall adhere to international laws and conventions related to seawater protection and COMPANY HSE policy concerning any discharge from the Drilling Unit such as waste cuttings, wastewater, oils etc. or any other acts or duties stipulated by the competent authority regarding the conservation of environment.

While performing the Work, Contractor must prevent releases, spills, and leaks from occurring. Contractor shall dispose of hazardous waste generated by Contractor and its subcontractors, at certified locations in an environmentally safe method and as per the Government regulations at Contractor's cost.

Before starting the operation on each location, Contractor shall cover all electrical and electronically equipment of the platform (such as electrical boards and panels, control valves, transmitters, electro motors,...) with appropriate material in order to prevent those equipment from being exposed to any kind of pollutant (liquid or solid) which may be spilled from the rig floor or other rig equipment during the operation.

After finishing the operation on each well, Contractor shall wash and clean the platform (all platform equipment, wellheads, stairways, decks, ...) under supervision of Company's Representative and to Company's satisfaction and approval.

Contractor shall provide jet washing machines (equipped with diesel power generator) and also steam wash machine , for washing and cleaning the platform after finishing or during the operation on each platform under satisfaction of company representative.

## **19. COMPANY Office at Rig**

Contractor shall provide a fully furnished and equipped office with a clear view of the main deck and rig floor for COMPANY representative. Moreover, two other equipped offices shall be provided for COMPANY engineers and service companies.

**20. Communication**

Contractor shall provide all the communication equipment as mentioned in the Contract, and such Equipment shall be operational 24 hrs a day.

**21. Accommodation and Meals (Boarding and Lodging for 20 COMPANY's Personnel)**

Contractor shall provide suitable air-conditioned accommodation and 20 full meals (tea/cold drinks, snacks, breakfast, lunch, dinner, and midnight meal) for 20 number of COMPANY and COMPANY other Contractor's Personnel at Contractor's cost included in Rig daily rate. The cost incurred on providing full meals in excess of 600 full meals per calendar month shall be charged to COMPANY in accordance with the provisions of this Contract. Contractor has to provide one company man bunkhouse and 20 beds (2 beds in each room) air-conditioned bunkhouse with toilet and shower facilities in the rig accommodation for COMPANY.

**22. Health, Safety and Environment**

Contractor shall ensure that their employees observe and perform all safety and occupational health regulations that COMPANY and /or Contractor may issue. Without prejudice to Contractor's general responsibility for the safety of its operations and personnel involved, and its obligations in accordance with the scope of operations, Contractor shall observe, perform, and adhere to the law of offshore and practices and policies issued by COMPANY. Contractor shall also provide each of its Personnel at the Site with the appropriate safety equipment/gears and clothing (including but not limited to Helmet, Cover-All, Hand Gloves, Safety Goggles, Ear Plug, Safety Shoes etc.). A work permit shall be issued for specific jobs, and HSE norms and requirements should be followed. Contractor shall conform to COMPANY and other Contractors HSE requirements.

Contractor shall furnish, prior to start of operations, a copy of Contractor's Safety Manual for the intended operation under the Contract and current Health, Safety,

and Environment (HSE) Policy to COMPANY covering all aspects of safety of Personnel and operations. These manuals shall be updated by the Contractor as required from time to time during the operation.

Contractor shall, before the start of operations, present to COMPANY a report indicating its safety organization, its knowledge of safe practices including local statutory requirements, its previous safety record (safety audit report and safety statistics for last three (3) years) in terms of injuries and damages, the safety awareness and training of its Personnel, as well as the effectiveness of its reporting system. Contractor should observe the associated laws and Regulations.

Contractor shall nominate a representative for overall safety, health, and environmental matters related to Work.

Throughout the performance of the rig, contractor shall keep worksite, its access, egress, and surrounding tidy, clean and free from all obstruction.

## **23. Well Control**

Contractor shall maintain well control equipment (as per COMPANY's requirement and approval) in sound condition at all times and shall use all reasonable means to control and prevent well flows, blowouts and fires and to protect the wells.

Contractor shall use all reasonable means to keep the hole in gauge and good condition at all times. Contractor shall maintain safety registers in which results of all drills, safety tests/checks and exercises are recorded and commented. The information shall be made available for inspection by COMPANY. Contractor will maintain all records and register as required under the law of offshore.

Responsibility for materials and services to be provided by Contractor and Company has been attached herewith in tabular form. The sections are marked '\*' indicating the applicability of that clause.

NO	ITEM	Supplied By		At expense of	
		COMP	CONT	COMP	CONT
1. PERSONNEL					
1.1.	Rig Personnel		*		*
1.2.	Additional Personnel necessary for CONTRACTOR's normal operations of the RIG, Office & Bases		*		*
1.3.	Personnel required by COMPANY through written orders as per rate		*	*	
2. EQUIPMENT					
2.1.	Drilling Unit as per contract		*		*
2.2.	Mud logging cabin and Equipment	*		*	
2.3.	Electrical logging / workshop / tools	*		*	
2.4.	Well testing surface equipment i.e. separators, test tank, flow-meters. (except burner boom & flare)	*		*	
2.5.	Complete set of Burner Booms and associated piping to Chock manifold		*		*
2.6.	Drill stem testing and formation testing tools	*		*	
2.7.	Production wire – line tools	*		*	
2.8.	Directional drilling, deviation control and measurement tools	*		*	
2.9.	TOTCO double recorder survey tools		*		*
2.10.	Turbines, down-hole motors	*		*	
2.11.	Drilling jar compatible with each open hole section		*		*
2.12	Communication and telecommunication facility & Equipment at Rig		*		*
2.13	All necessary tools to undertake maintenance of the RIG		*		*
2.14	Gas detection and H2S detection system (rig system)		*		*
2.15	Standard welding equipment on board		*		*
2.16	Rig Piping manifold for Cementing unit /10000PSI-W.P.		*		*

NO	ITEM	Supplied By		At expense of	
		COMP	CONT	COMP	CONT
2.17	Cementing casings circulating swage (for all size of casing)		*		*
2.18	Mud and geology cabins on board		*		*
2.19	Necessary associated connectors/DSA flange/adaptor flange /drilling spools to fit CONTRACTOR's BOP stack/riser to all COMPANY's well head/spool.		*		*
2.20	BOP handling, running, testing Equipment (HP test pump, test pump, testing tools)		*		*
2.21	Handling and running casing/tubing tools and rig tongs for all casing/tubing sizes as a backup (except automatic tongs)	*		*	
2.22	Core barrels & Coring Services	*		*	
2.23	Drilling String with subs, as per contract		*		*
2.24	String Stabilizers, Reamers as per contract		*		*
2.25	All subs, X-over subs, junk subs, bit subs, lifting subs, handling and running tools, with adequate fishing neck, for CONTRACTOR's down-hole equipment		*		*
2.26	Standard fishing tools for CONTRACTOR's down-hole Equipment		*		*
2.27	Special fishing tools other than above when not included in contract	*		*	
2.28	Bit breakers and bit ring gauges		*		*
2.29	Sand line / wireline cutter to cut in emergency the wireline run in hole inside the drill pipes, capable of cutting a wire of up to 9/16" diameter		*		*
2.30	Equipment not here-above designated but necessary for CONTRACTOR's normal operation of the RIG as determined by Contractor		*		*
2.31	Equipment not here-above designated but required at COMPANY'	*		*	
<b>3. CONSUMABLES / SPARES</b>					
3.1	Fuel for RIG, Making Mud	*		*	
3.2	Water for Rig & Making Mud (Equal to rig water maker capacity)		*		*
3.2.1	Fresh Water for rig consumption as per company order (up to		*		*

NO	ITEM	Supplied By		At expense of	
		COMP	CONT	COMP	CONT
	water rig water makers capacity)				
3.3	Lubricants / grease / hydraulic fluids / cleaning solvent for RIG		*		*
3.4	Casing and tubing thread compound	*		*	
3.5	Blow-out preventers operating fluids		*		*
3.6	All cement and additives	*		*	
3.7	All drilling and completion fluids	*		*	
3.8	All drilling/coring bits and accessories	*		*	
3.9	All casing/tubular and attachments	*		*	
3.10	Replacement of rubber casing protectors for drill pipes.		*		*
3.11	Thread protectors for CONTRACTOR' s drilling strings and down-hole Equipment		*		*
3.12	Wellheads/Christmas trees/completion equipment	*		*	
3.13	Necessary adaptors & RISER mentioned in contract		*		*
3.14	Steel gaskets for 3.12 above connections	*		*	
3.15	Steel gaskets for CONTRACTOR's BOP spools & risers' connections and its connection adaptors to Company's wellhead and its facilities.		*		*
3.16	a) Replacement of BOP' s rubbers		*		*
	b) Cup tester rubbers		*		*
	c) Plug type tester	*		*	
3.17	All packers, bridge plugs, cement retainers	*		*	
3.18	Pipe Wipers		*		*
3.19	Pipe Screen suitable for 5", 3 1/2", 2 7/8" Drill Pipes		*		*
3. 20	All necessary consumable to maintain in continuous operations the mud pumps and mud treatment system including but not limited to shale shakers screens (all required sizes) pump liners mud cleaner screen desanders and desilters fittings etc		*		*
3.21	All necessary spare parts, consumable, gas cylinders (oxygen, acetylene and nitrogen) welding consumable, paint, materials running supplies to undertake maintenance or repair of the RIG and CONTRACTOR's items.		*		*

NO	ITEM	Supplied By		At expense of	
		COMP	CONT	COMP	CONT
3.22	All necessary spare parts consumable for maintenance or repair of COMPANY's item	*		*	
3.23	All necessary ropes, cables, wire ropes, chain slings shackles, hook, blocks (with certification) on board the RIG		*		*
3.24	Repair or replacement of loading and unloading slings shackles, hook, blocks (with certification) on board the RIG		*		*
3.25	Electrical power and compressed air for COMPANY' s use and its subcontractors within the limit of availability and priorities on board the RIG		*		*
3.26	All necessary safety and protective clothing for CONTRACTOR's Personnel plus 10 extra sets for visitors		*		*
3.27	Consumables and spares not here above designated but necessary for CONTRACTOR's normal operation of the RIG as determined by CONTRACTOR		*		*
3.28	Consumables and spares not here above designated but required at COMPANY's request through written orders		*	*	
<b>4. SERVICES</b>					
4.1	Bases on Persian Gulf Area & Office in Tehran		*		*
4.2	Operation of the RIG and any CONTRACTOR's item		*		*
4.3	Compliance of RIG with all statutory regulations		*		*
4.4	Maintenance of RIG and CONTRACTOR's items		*		*
4.5	Purchase & deliver onboard any drilling tools and Equipment	*		*	
4.6	Safety training of CONTRACTOR's PERSONNEL		*		*
4.7	Chopper service for Contractor's onboard and injured Personnel (This is applicable just in case of emergency, Company reserve the right of non-providing of such service)	*			*
4.8	Accommodation and catering on board the RIG for Contractor's PERSONNEL and 20 persons per days of Company		*		*
4.9	Accommodation and catering on board the RIG for COMPANY's PERSONNEL in excess of 20 persons		*	*	
4.10	First aid medical attention on board the RIG		*		*
4.11	Medic. rescue as applicable for COMPANY's PERSONNEL	*		*	
4.12	Medic. rescue as applicable for CONTRACTOR's PERSONNEL	* or	*		*
4.13	Inspections of CONTRACTOR's items		*		*



NO	ITEM	Supplied By		At expense of	
		COMP	CONT	COMP	CONT
4.14	Periodical inspection of CONTRACTOR's DRILL STRING & down-hole items as per Contract (API standard)		*		*
4.15	Welding and cutting services on the RIG		*		*
4.16	All associated formalities related to travel documents health certificates, visas, Work permits statutory training etc, for CONTRACTOR's PERSONNEL and their families		*		*
4.17	Permit and licenses to operate CONTRACTOR's telecom equipment with associated radio operation		*		*
4.18	CONTRACTOR's PERSONNEL compliance with safety regulations / training exercises and emergency situation		*		*
4.19	CONTRACTOR'S base / office / warehouse / yard facilities / transportations / accommodations etc (including for families if any)		*		*
4.20	Full equipped and furnished COMPANY's representative office complete with hereinbefore mentioned		*		*
4.21	COMPANY's base and facilities	*		*	
4.22	Transportation of CONTRACTOR's PERSONNEL between point of origin and Drilling Unit		*		*
4.23	Any transportation of COMPANY'S PERSONNEL	*		*	
4.24	Transportation of CONTRACTOR's replacement items between Contractor operating base and Drilling Unit location		*		*
4.25	Any transportation of COMPANY's items	*		*	
4.26	Mobilization of Rig to first location within Iranian Territorial Water in Persian Gulf.	*		*	
4.27	Mobilization of Rig to first location from outside of Iranian Territorial Water.		*	*	
4.28	Any geological services including mud logging	*		*	
4.29	Electrical logging Services	*		*	
4.30	Mud engineering Services	*		*	
4.31	Directional drilling Services	*		*	
4.32	Cementing Engineering Services	*		*	
4.33	Drill stem testing, formation testing Services	*		*	
4.34	Coring Services	*		*	

NO	ITEM	Supplied By		At expense of	
		COMP	CONT	COMP	CONT
4.35	Casing and tubing running services including maintenance of hydraulic casing and tubing tongs to carry out COMPANY's program	*		*	
4.36	Torque-Turn Computer Services for the makeup of casing and tubing joints	*		*	
4.37	Drill pipe, pup-joints of equal or higher tensile strength than drill pipe		*		*
4.38	Services not here-above designated but necessary for Contractor's normal operations of the RIG as determined by CONTRACTOR		*		*
4.39	Services not here-above designated but required at COMPANY's request through written orders		*	*	
4.40	All-In-One desktop computers. The minimum specification of these computers are as follows: CPU= Core-i7 RAM= 8GB Cash= 16MB Screen= 27" HDD= 1 TB SSD + 2 TB HDD		*		*
4.40.1	Permanent access to Hi Speed lines of Internet Connection (Point to Point)		*		*
4.40.2	One laser printer, drill floor monitor and one direct satellite telephone lines for emergency calls		*		*
4.41	One digital camera for Company Representatives		*		*
4.42	One Fax Machine for Company Representatives		*		*
4.43	One Scanner for Company Representatives		*		*
4.44	Daily weather survey and analyst		*		*

**Notes:**

- 1- Move Master is selected and allocated for awarded job by contractor sole responsibility.
- 2- LPA Analysis Contractor shall be selected and allocated for awarded job by sole responsibility of Contractor.
- 3-Contractor is completely liable for any failure and/or negligence of Move Master / LPA analysis Contractor.