



**OIL AND NATURAL GAS CORPORATION LIMITED**  
**ENGAGEMENT OF SPECIALISTS/ EXPERTS ON CONTRACT**  
**ADVERTISEMENT NO. 8/2017 (R&P)**

Oil and Natural Gas Corporation Limited (ONGC), a “Maharatna” Public Sector Enterprise, and India’s flagship energy major is engaged in Exploration and Production of Oil and Gas in India and abroad. A global player in energy, it contributes about 65% of India’s domestic Oil and Gas production. Currently, ONGC through its subsidiary ONGC Videsh is India’s largest Transnational Corporate with overseas investment of over 10 billion USD in 17 countries.

ONGC is looking for Specialists/Experts on contract in the G&G and Engineering Cadre.

**1. Period of Engagement**

- (i) The Specialists/Experts will be engaged for a pre-determined period of upto maximum four years, or on attainment of 60 years whichever is earlier.
- (ii) The pre-determined period for engagement shall be decided by the Competent Authority of ONGC.
- (iii) The engagement shall end on expiry of the prescribed tenure period and no separate notice shall be required to be given.
- (iv) The engagement shall be a one-time exercise with no provision for re-engagement or extension of the contract once entered into.
- (v) **The services of Specialists/experts will be exclusive & on full time basis to ONGC**

**2. Premature Termination of Engagement:**

The services of Specialists/Experts can be terminated by either side by giving one month notice.

**3. Age limit, minimum period of experience, level of experts and financial package:**

S. No.	Parameters	Junior Expert	Assistant Expert	Expert	Senior Expert	Lead Expert
i.	Maximum Age*	40	45	50	53	56
ii.	Total experience in Upstream Oil & Gas*	05	08	12	15	18
iii.	Out of total experience(ii above) the experience in area of expertise*	03	04	6	8	10
iv.	Tenure Pay (₹)	70,000	80,000	90,000	1,00,000	1,20,000
v.	Consolidated Monthly Package (₹)	1,93,000	2,11,000	2,32,000	2,57,000	2,91,000
vi.	Consolidated Annual Package (₹ Lakh)	23.2	25.3	27.8	30.8	34.9

**\* Maximum age and period of experience will be calculated on the last date of application. Relaxation to OBC/SC/ST will only be extended upto that period until the applicant will attain the age of 56 years as on the last date of application or as per Govt of India guidelines(3 years for OBC and 5 years for SC/ST) whatever is less. OBC/SC/ST candidates can apply as general candidate if posts are not reserved for them but age relaxation will not be extended to them. Age relaxation to the PwD candidates (applied for the posts identified suitable for PwD) will only be extended upto that period until the applicant will attain the age of 56 years as on the last date of application or as per Govt of India guidelines whatever is less.**

- i. The “Tenure Pay” shall be considered for the limited purpose of determining annual increment and reimbursement/travel on tour, at any point of time.
- ii. An annual increase of 3% shall be admissible on the Tenure Pay, subject to performance not below “Good” PAR grading where performance grading for such engagement shall be evaluated against five grades- Excellent (A+), Very Good (A), Good (A-), Fair (B) and Poor (C).
- iii. The increment shall accrue annually on the first of the month subsequent to the date of joining of the incumbent.

#### 4. Role, Responsibilities & Empowerments

- (i) The experts shall discharge their roles and responsibilities with due diligence, efficiency and economy in accordance with company's rules and administrative procedures during the period of engagement.
- (ii) They will be required to sign annual performance contract based upon which their annual performance shall be evaluated by their reporting officers.
- (iii) The experts will report to the Key Executive of ONGC at a location/work centre.
- (iv) The Specialists/ Experts will submit a monthly report on the performance during the period.
- (v) For day to day functioning and discharge of role, necessary authorizations in company system will be provided.

#### 5. Details of the area of expertise for experience, relevant discipline, qualification, preference and number of posts:

Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
1.	Lead Expert	Flow Assurance	2	<b>Qualification:</b> Post Graduate degree in Chemistry/ Graduate degree in Chemical Engineering	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in crude oil processing and in flow assurance 3. Expertise in flow assurance in deep water sub-sea conditions	Chemistry\$
2.	Lead Expert	HPHT Drilling Fluids and Completion Fluids	2	<b>Qualification:</b> Post Graduate degree in Chemistry/ Graduate degree in Chemical Engineering	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in working in HTHP environment for drilling and completion fluid design and maintenance.	Chemistry\$
3.	Lead Expert	Microbiology	1	<b>Qualification</b> Post Graduate degree in Microbiology/Bio technology/Molecular biology <b>Preference</b> 1.Ph.D 2. Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in microbiology/ biotechnology/molecular biology related work as described in job profile 3. Specialized experience in biotech/hydrocarbon industry 4. Should have handled state of the art instruments related to spectroscopic and chromatographic analysis techniques 5. In-depth understanding and hands-on-approach in area of expertise	Chemistry\$
4.	Lead Expert	Analytical Geo-chemistry	1	<b>Qualification</b> Post Graduate degree in Chemistry with Geology in graduation level <b>Preference</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in geochemical data analysis, PSM modeling related to prospect/ resource assessment.	Chemistry\$
5.	Lead Expert	An expert in unconventional reservoir assessment (preferably in shale play having high clay content)	1	<b>Qualification</b> Post Graduate degree in Chemistry/ Graduate degree in Chemical Engineering <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience to assist in the assessment of unconventional reservoir interests preferably in shale having high clay content. 3. Experience in providing leadership to Laboratory personnel and also to improve the integration, quality, and technical protocols of global standard. 4. Develop new and improve existing knowhow in analytical understanding and data QC/QA analytical methodology.	Chemistry\$
6.	Lead Expert	Development Geology	1	<b>Qualification:</b> Post Graduate degree in Geology <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Modeling of clastic reservoirs in fluvial, deltaic and deep sea turbidites and in synrift depositional environments incorporating 3D seismic data 3. Modeling and characterization of carbonate reservoirs incorporating 3D seismic data 4. GCM preparation for tight / discrete sand bodies / reservoirs	Geology**

Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
7.	Lead Expert	High pressure detection and Deep water and related temperature studies	1	<b>Qualification</b> Post Graduate degree in Geology or post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in pore pressure prediction, high pressure analysis and seismic interpretation. 3. Knowledge in special processing and Geology & Geophysical data assimilation.	Geology**
8.	Lead Expert	Basin Modeling - Basin Analysis	1	<b>Qualification</b> Post Graduate degree in Geology <b>Preference</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in Basin Modeling and Basin Analysis	Geology**
9.	Lead Expert	Hyper spectral and Microwave remote sensing	1	<b>Qualification</b> Post Graduate degree in Geology <b>Preference</b> 1. Publications in the area of expertise in national/international Journal 2. Ph. D in Geology/Applied Geology with at least one of the mentioned aspects of remote sensing as specialization	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in upstream hydrocarbon industry 3. Proficiency in handling of standard image processing and GIS software, e.g. ERDAS, ENVI, GAMMA, ArcGIS etc. 4. Experience in integrating remote sensing data with seismic and other geoscientific data in GIS to derive a workable geological model 5. In-depth understanding and result oriented approach in area of expertise	Geology**
10.	Lead Expert	Sequence Stratigraphy	1	<b>Qualification</b> Post Graduate degree in Geology <b>Preference</b> 1. Ph.D in sequence stratigraphy 2. Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in upstream oil and gas industry 3. In-depth understanding and hands-on approach in area of expertise 4. Capability of integrating sequence stratigraphy studies with geoscientific data to arrive at basinal sequence stratigraphic model	Geology**
11.	Lead Expert	Quantitative Prospect Appraisal and their ranking	1	<b>Qualification</b> Post Graduate degree in Geology/Graduate degree in Chemical Engineering /Post Graduate degree in Chemistry.	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in Prospect appraisal Experience in using the Petromod or equivalent software especially related to Petroleum System Modelling	Geology**
12.	Lead Expert	An expert in unconventional reservoir assessment (preferably in shale play having high clay content)	1	<b>Qualification</b> Post Graduate degree in Geology <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience to assist in the assessment of unconventional reservoir interests preferably in shale having high clay content. 3. Experience in providing leadership to Laboratory personnel and also to improve the integration, quality, and technical protocols of global standard. 4. Develop new and improve existing knowhow in analytical understanding and data QC/QA analytical methodology.	Geology**
13.	Lead Expert	Paleontology Biostratigraphy	1	<b>Qualification</b> Post Graduate degree in Geology	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in the field of micropaleontology/ biostratigraphy and paleo-environmental analyses.	Paleontology
14.	Lead Expert	Special Geophysical studies	1	<b>Qualification</b> Post Graduate degree in Geology or Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in seismic special processing including Seis-facies analysis, PCA, SOM and similar areas. 3. Knowledge of special processing of seismic data, inversion and AVO analysis.	Geophysics (Surface)

Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
15.	Lead Expert	Reservoir / Development Geophysics	1	<b>Qualification:</b> Post Graduate degree in Geophysics/ Physics with Electronics.	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized Experience in Seismic Reservoir characterization including both pre stack and post stack seismic data for reservoir description and appraisal. (Reservoirs include clastic, carbonate, synrift, tight ) 3. Specialized Experience in Seismic reservoir characterization including pre and post stack inversion methods, mapping of reservoir pool limits, elastic parameters generation, poisson's ratio ,cross plot analysis, field delineation with sufficient knowledge of velocity model building processes particularly in areas of velocity anomalies and (affected by overburden lithologies). Use of seismic inputs for computing and validating the volumetric 4. Thin /sub seismic reservoirs characterization interleaved by coal beds. 5. Description and characterization of thin/sub seismic tight, discrete/synrift reservoirs and mapping of sweet spots for optimal well placement 6. Stochastic seismic inversion methods & uncertainty analysis for property propagation in geo-cellular model, 7. Seismic reservoir characterization of Fractured reservoirs: Experience in mapping of fractures, fracture intensity maps, integration of image logs, geological data and other dynamic data for fracture analysis and DFN model preparation. (Experience: Should have worked in fractured reservoirs)	Geophysics (Surface)
16.	Lead Expert	Three Component VSP	1	<b>Qualification:</b> Post- graduation in Geophysics / Physics with electronics <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Expertise in VSP acquisition, processing and interpretation. 3. Experience in integrating geology with seismic sections and petro-physical studies.	Geophysicist (Surface)
17.	Lead Expert	Expertise in data processing and Geophysical Exploration	3	<b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Inline experience in processing & Geophysical Exploration	Geophysicist (Surface)
18.	Lead Expert	3D-3C Data Processing & Interpretation	1	<b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics.	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in processing & interpretation. 3. Experience in using the Processing related software like CGG-Geovation/VectorVista or equivalent	Geophysicist (Surface)
19.	Lead Expert	3D Data Processing & Interpretation	2	<b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics.	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in processing & interpretation. 3. Experience in using the Processing related software like CGG-Geovation/VectorVista or equivalent	Geophysicist (Surface)

Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
20.	Lead Expert	Integrated petro-physical studies and formation evaluation	5	<p><b>Qualification:</b> Post Graduate degree in Geophysics/ Physics with Electronics.</p> <p><b>Preference</b> Publications in the area of expertise in national/international Journal</p>	<p>1. Substantive experience in Upstream Oil &amp; Gas Industry</p> <p>2. Specialized experience in petro-physics</p> <p>3. Expertise in logging, coring and formation evaluation in a variety of shale/tight sandstone/ basement/ shale plays; HPHT and LRLC reservoirs.</p> <p>4. Experience of Processing, analysis &amp; interpretation of Image Log data</p> <p>5. Demonstrated ability to use industry standard Petro-physical data processing and interpretation software.</p>	Geophysics (Wells)
21.	Lead Expert	Geo-Mechanical modeling	1	<p><b>Qualification:</b> Post- graduation in Geophysics /Physics with electronics</p> <p><b>Preference</b> 1.Ph.D 2. Publications in the area of expertise in national/international Journal</p>	<p>1. Substantive experience in Upstream Oil &amp; Gas Industry</p> <p>2. Specialized experience in computational petro physics, rock physics, and geomechanics.</p> <p>3. Expertise in logging, coring and formation evaluation in clastics, carbonates and tight reservoirs using seismic and log and data.</p> <p>4. Ability to use state-of-art processing and interpretation software for integrated petro physical geo-mechanical and rock physics modelling</p> <p>5. Knowledge of seismic reservoir characterization</p>	Geophysicist (wells)
22.	Lead Expert	Petro physical Studies & Log data Evaluation	1	<p><b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics.</p>	<p>1. Substantive experience in Upstream Oil &amp; Gas Industry.</p> <p>2. Specialized experience in evaluation of tight reservoirs Experience in using the landmark / Paradigm or equivalent software especially related to Petro physical evaluation</p>	Geophysics (Wells)
23.	Lead Expert	Reservoir Simulation and Field Development-A	1	<p><b>Qualification:</b> Post Graduate degree in Geology/ Chemistry/ Geophysics/ Maths/ Physics (Must have Physics at BSc level) or Graduate degree in Chemical/ Petroleum Engineering</p> <p><b>Preference:</b> Publications in the area of expertise in national/international Journal</p>	<p>1. Substantive experience in Upstream Oil &amp; Gas Industry</p> <p>2. RCAL and SCAL data interpretation for rock type characterization, saturation modelling and integration of the same in simulation model</p> <p>3. PVT experiment and EOS fine tuning of near critical fluids for compositional modelling</p> <p>4. Transient well test interpretation with emphasis on reservoir characterization and its integration in simulation model</p> <p>5. Dual Porosity Dual Permeability reservoir simulation with understanding of critical fluid dynamics parameters for fractured and vuggy reservoirs.</p>	Reservoir
24.	Lead Expert	Chemical EOR	1	<p><b>Qualification:</b> Post Graduate degree in Geology/ Chemistry/ Geophysics/ Maths/ Physics (Must have Physics at BSc level) or Graduate degree in Chemical/ Petroleum Engineering</p> <p><b>Preference:</b> Publications in the area of expertise in national/international Journal</p>	<p>1. Substantive experience in Upstream Oil &amp; Gas Industry</p> <p>2. Specialized experience in screening, pilot designing, monitoring and analysis and conversion to field scale implementation of Polymer &amp; ASP flood project. Must have experience in Chemical EOR simulation (both polymer &amp; ASP) with understanding of</p> <p>3. Laboratory measurements and its simulation</p> <p>4. Scaling up of the laboratory results for full field simulation</p> <p>5. Full field simulation</p>	Reservoir

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25.	Lead Expert	HP-HT	1	<b>Qualification:</b> Post Graduate degree in Geology/ Chemistry/ Geophysics/ Maths/ Physics (Must have Physics at BSc level) or Graduate degree in Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized Experience in Simulation of HPHT fields and tight reservoirs with emphasis on Geomechanics and fluid characterization	Reservoir
26.	Lead Expert	Reservoir Simulation and Field Development-B	1	<b>Qualification:</b> Post Graduate degree in Geology/ Chemistry/ Geophysics/ Maths/ Physics (Must have Physics at BSc level) or Graduate degree in Chemical/ Petroleum Engineering <b>Preference:</b> Experience in Dynamic flow model in basement reservoir	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in Reservoir modelling in unconventional basement / Characterization and Unitization of Reservoirs / Field Development	Reservoir
27.	Lead Expert	CBM Gas development	1	<b>Qualification:</b> Post Graduate degree in Geology/ Chemistry/ Geophysics/ Maths/ Physics (Must have Physics at BSc level) or Graduate degree in Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience coal seam gas environments. 3. In-depth understanding of Coal Bed Methane reservoir fundamentals including previous experience with CBM reservoir simulation models and simulators	Reservoir
28.	Lead Expert	Flow Assurance	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in crude oil processing and in flow assurance 3. Expertise in flow assurance in deep water sub-sea conditions	Production
29.	Lead Expert	Horizontal wells and HPHT completions	2	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in HPHT operations working for mid-sized and major operators. 3. Experience in completion design and hydraulic fracturing and CTU operation in HPHT environment.	Production
30.	Lead Expert	Full knowledge of developing a CDM projects without hiring of consultants and got registered	1	<b>Qualification</b> Post Graduate degree in chemistry or Graduate degree in Chemical/ Mechanical/ Electrical/Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in successful registration of CDM projects and verification of existing project. Developing methodology for maintaining monitoring of data pertaining to the projects.	Production
31.	Lead Expert	Hydraulic and Acid Fracture treatment, design & optimization	2	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in the Hydraulic Fracturing including unconventional reservoirs like shale, CBM, tight gas, HPHT reservoir. 3. Experiences in the analysis of transient DTS data acquired during high-rate, multi-stage hydraulic fracturing in vertical, deviated, and horizontal oil and gas wells. 4. Competence to find the location of fiber, conveyed with coiled tubing inside the flow path or cemented behind casing, 5. Experience of analyzing major impact in the temperature response, depending of the thermal conductivity between the fiber cable and the injected fluid path.	Production

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32.	Lead Expert	Subsea Well Control Systems	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering OR Marine Engineer STCW III/2	1. Substantive experience in Upstream Oil & Gas Industry. 2. Highly specialized experience with MUX electronic control systems and regulation technology, including pneumatic and electrical systems	Production
33.	Lead Expert	Project Management	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> Certification as Project Management Professional (PMP, PMI, PMBOK, CAPM, PgMP, PfMP, ACP, PBA, RMP, SP, and OPM3)	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in Project Manager in offshore projects. 3. Familiarity with International rules, regulations and best practices.	Production
34.	Lead Expert	Sub Sea Production systems	2	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in Subsea production systems	Production
35.	Lead Expert	Well Completion and Fracturing of Shale formations	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in designing and execution of fracture stimulation jobs and post-HF evaluation of Fractured intervals, 3. International experience in Hydro fracturing of Shale formations. 4. Experienced in use of various fracturing simulation modeling software in vogue. 5. A sound knowledge of best international practices in vertical and horizontal well completions for multi- stage shale fracturing.	Production
36.	Lead Expert	Water Shut Off HP HT, Deep & Ultra deep-water	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> M Tech/M.S/PhD will be added advantage	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in water shut off jobs in HP-HT and Deep and Ultra deep water.	Production
37.	Lead Expert	Artificial Lift for deep water wells	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> M Tech/M.S/PhD will be added advantage	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in the domain of artificial lift in deep-water wells	Production
38.	Lead Expert	Process Intensification Technologies for weight reduction on platforms	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> M Tech/M.S/PhD will be added advantage	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in compact design of Well Platforms/Process platforms	Production
39.	Lead Expert	Standard Gas Exploitation	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> M Tech/M.S/PhD will be added advantage	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in standard gas exploitation/evacuation using technologies like GTL/FLNG/CNG etc. in Offshore fields	Production

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40.	Lead Expert	Plants -Process Optimization	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> M.Tech/M.S will be an added advantage.	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in Process Operation & trouble shooting preferably in Gas sweetening (MDEA/Sulfinol) Process and Gas dehydration plants. 3. Experience in the domain of Process Engineering / optimization in Gas sweetening (MDEA/Sulfinol) Process and Gas dehydration plants. 4. Besides should have exposure/ knowledge of industry standard applicable Software. Publication of technical papers will have additional weightage.	Production
41.	Lead Expert	Process Plants- Cryogenic operations	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering <b>Preference</b> M.Tech/M.S will be an added advantage.	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in Operation & trouble shooting involving cryogenic operations in C2/C3 and LPG plants. 3. Experience in the domain of Process Engineering / optimization for C2/C3/C4 Recovery based on cryogenic Processes , of C2/C3 and LPG plants. 4. Besides should have exposure/ knowledge of industry standard applicable Software. Publication of technical papers will have additional weightage.	Production
42.	Lead Expert	CBM	1	<b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering  M.Tech/M.S will be an added advantage.	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in handling CBM fields involving Production operations, Artificial lift selection/optimization, Water disposal and Surface facilities capable of handling fines, Fracturing and Stimulation.  3. Besides should have exposure/ knowledge of industry standard applicable Software, Understanding and interpretation of data from reservoir surveillance, Production logging tools etc. Publication of technical papers will have additional weightage.	Production
43.	Lead Expert	Structure Engineer	2	<b>Qualification</b> Graduate degree in Civil Engineering <b>Preference</b> M. Tech in Structure	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in Offshore Construction / Design of Oil and Gas Process Platform.	Civil**
44.	Lead Expert	Maintenance High Speed Machine	1	<b>Qualification:</b> Graduate degree in Mechanical Engg/ Graduate degree in Electrical Engg. <b>Preference</b> Specialized Certificates on Condition Monitoring	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience for O & M of High Speed machines 3. Familiarity with various Condition Monitoring Tools and Equipment.	Electrical***
45.	Lead Expert	Static Equipment- Offshore / Onshore	2	<b>Qualification:</b> Graduate degree in Mechanical Engg <b>Preference</b> M. Tech in Equipment Design	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized work experience in reputed EPC / Construction in the manufacturing company of static Equipment. 3. Experience in Design Office. 4. Familiarity with various Condition Monitoring Tools and Equipment.	Mechanical***



Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
46.	Lead Expert	Underbalanced Drilling (UBD) or Managed Pressure Drilling (MPD) operations/ applications.	2	<b>Qualification:</b> Graduate degree in Mechanical/ Petroleum Engineering.	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience of supervision of field drilling operations 3. Experience on flow modeling and MPD/UBD engineering	Drilling
47.	Lead Expert	Extended Reach Well, Multi-lateral Wells/ HPHT	2	<b>Qualification:</b> Graduate degree in Mechanical/ Petroleum Engineering <b>Preference</b> Certification in Drill bit optimization, Drilling performance, Pressure management.	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in onshore and offshore drilling, directional drilling, intelligent completions, drilling optimization, ERD, formation and evaluation tool development, and gas transmission. 3. Experience in drilling/ work-over engineering with specific emphasis on drilling technology and blow out prevention	Drilling
48.	Senior Expert	Expertise in Rock physics , Rock mechanics and Geomechanics	1	<b>Qualification</b> Post Graduate degree in Geology or Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in G&G evaluation	Geology**
49.	Senior Expert	Expertise in Petro physics & Rock physics of Clastics and Carbonates	1	<b>Qualification</b> Post Graduate degree in Geology or Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in Petro physics & Rock physics of Clastics and Carbonates	Geology**
50.	Senior Expert	MEOR	1	<b>Qualification:</b> Post Graduate degree in Microbiology <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. The applicant should have extensive knowledge of microbiology (especially anaerobic microbiology)/Bio-Technology 3. Knowledge about mechanisms acting on oil recovery by MEOR 4. Knowledge about metabolites generated during MEOR process. 5. Experience in molecular biology techniques and biochemistry. 6. Experience in the growth, manipulation and transformation of microbes. 7. Experience in Microbial Core flood experiments. 8. Knowledge about Microbial degradation of oil. 9. Experience in H2S mitigation techniques from biogenic sources 10. Knowledge about Numerical Simulation of MEOR Process & biogenic reservoir souring. 11. Knowledge about Microbial Culturing and Assessment 12. Experience in Bioremediation of oil spills 13. Flow assurance problems using paraffin degrading bacteria	Chemistry\$

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51.	Senior Expert	Expertise in sequence identification on seismic, seismic and creation of integrated model using industry standard software	1	<b>Qualification</b> Post Graduate degree in Geology or Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference</b> 1. Ph.D in biostratigraphy/ sedimentology 2. Publications in the area of expertise in national/international Journal and Technical publications	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in integrated G&G evaluation and modelling	Geophysicist (Surface)
52.	Senior Expert	Shale geology, geomechanics, quantitative seismic interpretation	1	<b>Qualification</b> Post Graduate degree in Geology or Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in developing shale-gas plays	Geophysicist (Surface)
53.	Senior Expert	Expertize in image log processing using industry standard software	1	<b>Qualification</b> post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry 2. Specialized experience in recording, processing and interpretation.	Geophysicist (Surface)
54.	Senior Expert	Expertize in simulation using industry standard software, contribution in field development	1	<b>Qualification</b> Post Graduate degree in Geology or Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized Experience in modelling for field development and exploitation.	Geophysicist (Surface)
55.	Senior Expert	Expertise in seismic data processing-Sub Basalt Imaging	1	<b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in application of overall seismic geophysical methods.	Geophysics (Surface)
56.	Senior Expert	Expertise in seismic data processing – Velocity Modelling	1	<b>Qualification</b> post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in seismic data processing	Geophysicist (Surface)
57.	Senior Expert	Expertize in rock physics and inversion using industry standard software	1	<b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in quantitative interpretation	Geophysicist (Surface)
58.	Senior Expert	Specialized in Pre Stack seismic data processing using azimuthal and anisotropic variation	1	<b>Qualification</b> Post Graduate degree in Geophysics/ Physics with Electronics. <b>Preference:</b> Publications in the area of expertise in national/international Journal	1. Substantive experience in Upstream Oil & Gas Industry. 2. Specialized experience in seismic data processing and visualization of AVO and inversion	Geophysicist (Surface)

Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
59.	Senior Expert	LNG Marketing	1	<p><b>Qualification:</b> Graduate degree in Mechanical/ Chemical/ Petroleum Engineering</p> <p><b>Preference</b> MBA in Marketing/ Finance will be an added Advantage.</p>	<ol style="list-style-type: none"> <li>1. Substantive experience in Upstream Oil &amp; Gas Industry</li> <li>2. Specialized experience in Marketing / Commercial experience</li> </ol>	Production
60.	Expert	MEOR	3	<p><b>Qualification:</b> Post Graduate degree in Microbiology</p> <p><b>Preference:</b> Publications in the area of expertise in national/international Journal</p>	<ol style="list-style-type: none"> <li>1. Substantive experience in Upstream Oil &amp; Gas Industry</li> <li>2. The applicant should have extensive knowledge of microbiology (especially anaerobic microbiology)/Bio-Technology</li> <li>3. Knowledge about mechanisms acting on oil recovery by MEOR</li> <li>4. Knowledge about metabolites generated during MEOR process.</li> <li>5. Experience in molecular biology techniques and biochemistry.</li> <li>6. Experience in the growth, manipulation and transformation of microbes.</li> <li>7. Experience in Microbial Core flood experiments.</li> <li>8. Knowledge about Microbial degradation of oil.</li> <li>9. Experience in H2S mitigation techniques from biogenic sources</li> <li>10. Knowledge about Numerical Simulation of MEOR Process &amp; biogenic reservoir souring.</li> <li>11. Knowledge about Microbial Culturing and Assessment</li> <li>12. Experience in Bioremediation of oil spills</li> <li>13. Flow assurance problems using paraffin degrading bacteria</li> </ol>	Chemistry\$
61.	Expert	Integrated petro-physical studies and formation evaluation	1	<p><b>Qualification:</b> Post Graduate degree in Geophysics/ Physics with Electronics.</p> <p><b>Preference</b> Publications in the area of expertise in national/international Journal</p>	<ol style="list-style-type: none"> <li>1. Substantive experience in Upstream Oil &amp; Gas Industry</li> <li>2. Specialized experience in petro-physics</li> <li>3. Expertise in logging, coring and formation evaluation in a variety of shale/tight sandstone/ basement/ shale plays; HPHT and LRLC reservoirs.</li> <li>4. Experience of Processing, analysis &amp; interpretation of Image Log data</li> <li>5. Demonstrated ability to use industry standard Petro-physical data processing and interpretation software.</li> </ol>	Geophysics (Wells)
62.	Expert	Expertise in at least one industry standard software for Restoration, Facies mapping and Fault Seal Analysis	1	<p><b>Qualification</b> Post Graduate degree in Geology</p> <p><b>Preference</b> 1. PhD in structural Geology 2. Publications in the area of expertise in national/international Journal</p>	<ol style="list-style-type: none"> <li>1. Substantive experience in Upstream Oil &amp; Gas Industry</li> <li>2. Specialized Experience in G&amp;G evaluation and Prospect generation</li> </ol>	Geology**

Sl. No.	Post/ Position	Area of Expertise (Experience required)	No of Post	Minimum Essential Qualification / Preference	Range of Experience	Relevant Discipline
63.	Expert	Ecology & Biodiversity	1	<b>Qualification:</b> Post Graduate degree in Botany/ Forestry/ Environmental Science/ Ecology/ Natural Resource Management/ Ecology & Environment/ Ecology & Bio-diversity. <b>Preference</b> Doctoral degree in relevant subject with research work will be preferred.	1. Substantive experience in Upstream Oil & Gas Industry 2. Experience in Research & Development in the field of Ecology & Bio diversity. 3. Experience of preparation of at least 05 number of EIA reports for oil & gas Exploration & Production projects. 4. It is desirable that candidate should be accredited Functional Area Expert in the field of Ecology & Biodiversity by the Quality Council of India, National Accreditation Board of Education & Training.	Environment
<b>Total</b>			<b>81</b>			

\$ Discipline in which posts Identified suitable for PwD-OL, OA

\*\* Discipline in which posts identified suitable for PwD-OL, OA, HH

\*\*\*Discipline in which posts identified suitable for PwD- OL, HH

Abbreviations Used: OA= One Arm, OL= One Leg, HH= Hearing Impaired, OH= Orthopedically Impaired.

Out of the above 81 Posts, Category wise break up for reservation will be as follows:

Relevant Discipline	Post	SC	ST	OBC	UR (Unreserved)	Total
Chemistry	Expert	0	0	0	3	3
	Senior Expert	0	0	0	1	1
	Lead Expert	1	0	1	5	7
Civil	Lead Expert	0	0	0	2	2
Drilling	Lead Expert	0	0	1	3	4
Electrical	Lead Expert	0	0	0	1	1
Environment	Expert	0	0	0	1	1
Geology	Expert	0	0	0	1	1
	Senior Expert	0	0	0	2	2
	Lead Expert	1	0	1	5	7
Geophysicist (W)	Expert	0	0	0	1	1
	Lead Expert	1	0	1	5	7
Geophysicist (S)	Senior Expert	1	0	2	5	8
	Lead Expert	1	0	2	6	9
Mechanical	Lead Expert	0	0	0	2	2
Palaeontology	Lead Expert	0	0	0	1	1
Production	Senior Expert	0	0	0	1	1
	Lead Expert	2	1	4	11	18
Reservoir	Lead Expert	0	0	1	4	5
<b>Total</b>		<b>7</b>	<b>1</b>	<b>13</b>	<b>60</b>	<b>81</b>

6. Candidates meeting the eligibility criteria for the following **Area of Expertise** may also apply .But their candidature will only be considered for next phase of engagement if posts under these expertise are not filled in the existing phase as. Information regarding the next phase will be notified at ongcindia.com. They need not apply again in the next phase of exercise if applied now .It may be noted that eligibility criteria, cut-off date of eligibility criteria (Age, Qualification, and Experience) and other things such as preference, job profile will remain unchanged. But reservations for the posts will be decided afresh and will be notified at ongcindia.com. Therefore it is expected that such candidates should apply and update themselves by checking ongcindia.com.

Refer as table	S.No. above	Area of Expertise	Meeting eligibility criteria (Age, Qualification and Experience)
13.		<b>Paleontology Biostratigraphy</b>	Senior Expert
17.		<b>Expertise in data processing and Geophysical Exploration</b>	Senior Expert , Expert
26.		<b>Reservoir Simulation and Field Development-B</b>	Senior Expert
40.		<b>Plants -Process Optimization</b>	Senior Expert , Expert
41.		<b>Process Plants-Cryogenic operations</b>	Senior Expert , Expert
42.		<b>CBM</b>	Senior Expert , Expert
53.		<b>Expertize in image log processing using industry standard software</b>	Expert
54.		<b>Expertize in simulation using industry standard software, contribution in field development</b>	Expert
55.		<b>Expertise in seismic data processing- Sub Basalt Imaging</b>	Expert
58.		<b>Specialized in Pre Stack seismic data processing using azimuthal and anisotropic variation</b>	Expert
60.		<b>MEOR</b>	Asst. Expert, Junior Expert

**Note:**

i) Candidates seeking reservation as SC/ST/OBC, will have to submit at the time of interview, caste certificate, ONLY in the prescribed proforma meant for appointment to posts under the Government of India from the designated authority indicating clearly the candidate's caste, the Act/Order under which the caste is recognized as SC/ST/OBC and the Village/Town the candidate is ordinarily a resident of.

ii) Prescribed format of the caste certificate for SC/ST/OBC & PWD for employment in government undertaking is available on from the online application site.

iii) OBC candidates must ensure that they possess the latest Non-Creamy layer certificate issued by Competent Authority for Government of India posts. A certificate containing any variation in the caste name will not be accepted.

iv) OBC claim of a candidate will be determined in relation to the State (or part of the State) to which his/her father originally belongs. A candidate who has migrated from one state to another state should, therefore, produce an OBC Certificate which should have been issued to him/her based on his/her father's OBC Certificate from the State to which he (father) originally belongs.

v) No change in the community status already indicated by a candidate in his/her online application form for this exercise will ordinarily be allowed.

**7. The Job profile in the area of expertise for conveying the clarity of work to the potential applicants in the notification is proposed as follows**

Sl. No.	Area of Expertise	Job Profile
1.	<b>Flow Assurance</b>	-To provide technical solutions for sustained flow assurance in low temp. Regime prevailing at deep water subsea completion and onshore areas by studying rheology on live crude oil under simulated temp. & pressure with chemical intervention. -To identify efficient wax/ asphaltene dispersant and develop crude specific flow assurance models. -To standardize lab studies to carry out experiments at simulated field conditions on representative live oil. -To identify suitable software for predicting flow assurance and validation with lab results.
2.	<b>HPHT Drilling Fluids and Completion Fluids</b>	For HPHT wells -Drilling Fluid in HPHT oil & gas Wells having temperature >200°C & pressure >10000 psi. -High Density Brines (>16 ppg) as Completion Fluid for > 200 °C. -Suitable Corrosion Inhibitor for HTHP environment.
3.	<b>Microbiology</b>	-Expertise in identification and characterization of microbes DNA isolation and replication from community samples - Fingerprinting and sequencing and identification of DNA -Synthesis, purification and characterization of Macro biomolecules.
4.	<b>Analytical Geo-chemistry</b>	-Data analysis related to PSM Modeling. -Fixation of kinetics for PSM Modeling with respect to depositional environment. -Helping in Biogenic modeling particularly risk modeling including salient geochemical factors.
5.	<b>An expert in unconventional reservoir assessment (preferably in shale play having high clay content)</b>	-Specialized in rock and fluids analysis (geochemistry, petrology, petro physics, geomechanics, and gas adsorption), comprehensive data interpretation, core calibration of petro physical log models, and formation evaluation. -To handle development and deployment of new exploratory inputs, and the interpretation and integration of rock/fluid/log data to characterize unconventional reservoir economic potential.

Sl. No.	Area of Expertise	Job Profile
6.	<b>Development Geology</b>	-Preparation of Geo-cellular Model and modification/ updation of the existing models by incorporating new data -Interaction with the Asset Development Group to formulate FDP/IOR schemes -Interaction with the Asset Team for Development drilling planning and monitoring
7.	<b>High pressure detection and Deep water and related temperature studies</b>	-Identification of high pressure zone on different wells and integration with various seismic attributes. Stratigraphy wise pressure distribution and their relationship. -Special studies for pore pressure prediction with seismic interval velocities. -Composite map of high pressure zone at various stratigraphic levels. -Casing policy and suitable mud parameters of future well.
8.	<b>Basin Modeling - Basin Analysis</b>	-Basin modeling (static & dynamic), generation of play fairways map and play portfolio analysis. -Identification of yet to find (YTF) hydrocarbon based on G&G data/ Basin Modeling. -Selection of suitable areas for forthcoming HELP/OALP from YTF areas.
9.	<b>Hyper spectral and Microwave remote sensing</b>	-Hyper spectral and thermal remote sensing for identification of lithological and hydrocarbon signatures -Microwave data based geological modelling using interferometry/ Polarimetry LIDAR data analysis -Geospatial data integration and modeling in GIS
10.	<b>Sequence Stratigraphy</b>	-Identify sequence, para-sequence boundaries and system tracts -Identify stacking patterns for different sequences and para-sequences -Identify small and localized sedimentary cycles -Identify sea level changes through geological time -Identify High frequency -Lower order sequences(IV, V and VI <sup>th</sup> order) -Integration with seismic, log and litho-bio- chronostratigraphy -Depositional modeling at micro scale
11.	<b>Quantitative Prospect Appraisal and their ranking</b>	3D Petroleum System Modelling
12.	<b>Paleontology Biostratigraphy</b>	-Expertise in the field of Micro- Paleontology, Biostratigraphy and Paleo environmental analysis with specialization in sequence depositional modeling and Bio stratigraphic analysis based on foraminiferal group of Microfossils for Age dating, etc.
13.	<b>Special Geophysical studies</b>	-Multi-attribute Seismic facies with Principal Component Analysis (PCA) supported by Self Organizing Map(SOM), Neural Network and 2D Color Mapping for Thin Bed resolution.
14.	<b>Reservoir / Development Geophysics</b>	-To provide support/work flows for the stochastic seismic inversion processes, uncertainty analysis. Rock physics modeling. -Tailor made solutions for seismic characterization of clastic reservoirs that are sub seismic and intervened by coal beds, tight reservoirs -Supervise and suggest velocity model building processes for domain conversion particularly in areas of velocity anomaly/overburden issues and structural uncertainty analysis -Integration of image log data with seismic data for fracture analysis and mapping. -Use of the above processes in arriving at STOIP/GIIP with various scenarios (P10,P50,P90) that are geologically consistent with the static model.(Seismic reservoir characterization includes various seismic inversion methods, attribute analysis, spectral decomposition etc..)
15.	<b>Three Component VSP</b>	-To provide three component VSP acquisition, processing and interpretation knowledge
16.	<b>Expertise in data processing and Geophysical Exploration</b>	Foothills / Thrust Fold Belt and Desert area imaging Multi Component seismic data processing Advanced Data Analysis (Wavelet Based, Compressive sensing and Machine learning)
17.	<b>3D-3C Data Processing &amp; Interpretation</b>	Multi-component seismic Data Processing & Interpretation
18.	<b>3D Data Processing &amp; Interpretation</b>	Anisotropic PSDM for full Azimuth/rich Azimuth data Signal enhancement below Coal
19.	<b>Integrated petro-physical studies and formation evaluation</b>	-Conduct comprehensive petro physical studies and analysis by integrating logging tool responses, rock, fluid and production data for formation evaluation and reservoir surveillance -Design and oversee core and fluid studies to enhance petro-physical models. -Act as technical adviser to management regarding best practices for the acquisition, analysis, interpretation and integration of logging data. -Develop verifiable petro physical models for incorporation into static and dynamic reservoir models for volumetric prediction and development planning
20.	<b>Geo- Mechanical modeling</b>	-Proficiency in integrated log analysis for reservoir description, understanding of seismic rock properties and production petro physics -Experience in building robust geomechanical and rock physics models by integrating log responses with seismic attributes and core derived petro physical inputs -Characterization of the stress /strain regime in static and dynamic reservoir conditions for field/area specific solutions
21.	<b>Petro physical Studies &amp; Log data Evaluation</b>	-Petro physical Evaluation of tight silty reservoirs and assessment of their hydrocarbon potential
22.	<b>Reservoir Simulation and Field Development</b>	-Build reservoir simulation models to characterize and describe oil, gas and gas condensate reservoirs and history to match these models to available field data. -Use reservoir simulation models to optimize the value of the field development plans, forecast reservoir performance, and estimate reserves based on different recovery schemes. -Use Regional simulation models to perform global studies (Gas handling, NGL, de-bottlenecking, etc.) -Work closely with G&G team to ensure good consistency in static reservoir model building. -Utilize petroleum engineering software pertaining to well test analysis, material balance, production logging, nodal analysis

Sl. No.	Area of Expertise	Job Profile
23.	<b>Chemical EOR</b>	-Screening of reservoirs for Chemical EOR Planning and execution of Laboratory core flood studies and selection of tailor made surfactant and design of optimum slug size for ASP process. Also design of Polymer flood -Pilot design and monitoring of Chemical EOR Simulation of Chemical EOR process and planning for full field implementation -Monitoring of Chemical EOR process
24.	<b>HP-HT</b>	-Build reservoir simulation models to characterize and describe oil, gas and gas condensate reservoirs and history to match these models to available field data. -Use reservoir simulation models to optimize the value of the field development plans, forecast reservoir performance, and estimate reserves based on different recovery schemes. -Work closely with G&G team to ensure good consistency in static reservoir model building. -Utilize petroleum engineering software pertaining to well test analysis, material balance, production logging, nodal analysis
25.	<b>Reservoir Simulation and Field Development</b>	-Build reservoir model for fractured reservoirs characterizing the fracture network which mainly act as storage as well as flow passage in unconventional basement reservoir. - Draw development plan including optimization of well placement, estimation of in-place volumes and recovery factor for fractured reservoirs. -Fine gridded 3-D model in black oil simulation (Eclipse or industry equivalent) for basement reservoir. Validation of generated model through pressure transient analysis.
26.	<b>CBM Gas development</b>	-Fundamental reservoir engineering skills, as well as CBM specific expertise in reservoir description, development planning, and production optimization for optimal CBM asset development of the company.
27.	<b>Horizontal wells and HPHT completions</b>	-Design, development, implementation and management of new well completions, hydraulic fracturing, CTU work-overs, and well interventions for horizontal wells and HPHT completions
28.	<b>Full knowledge of developing a CDM projects without hiring of consultants and got registered</b>	-Development, registration and successful verifications of CDM projects ( existing and new)
29.	<b>Hydraulic and Acid Fracture treatment, design &amp; optimization</b>	- Frac design, optimization and planning of multistage hydraulic fracturing jobs in vertical, inclines, horizontal, radially drilled, multilateral wells (both prop pant and acid frac) including completion design, selection of technology based on techno economic analysis. -Real-time monitoring of hydraulic fracturing using fiber optic distributed temperature sensing (DTS) to estimate fracture initiation depth, vertical coverage and number of generated fractures, effects of diverting agents, and undesired flow behind casing.
30.	<b>Subsea Well Control Systems</b>	-Responsible for maintaining and repairing all equipment associated with the subsea well control system. -Responsible for the maintenance and repair of hydraulic motion compensation equipment. -Pre-planning and running/pulling the riser and subsea BOP and testing the BOP in compliance with company and regulatory procedures
31.	<b>Project Management</b>	-Planning and executing offshore projects HPHT, Deep Water Projects
32.	<b>Sub Sea Production systems</b>	-Interface with clients, partners and associates on subsea issues -Developing & designing sub-sea architecture for subsea projects at the following stages: 1. Concept development plan & feasibility study 2. Design of subsea architecture 3. Review Drilling/ Re-entry/ subsea installation/ well completion design 4. To provide assistance in preparing and evaluation of technical bid package of SPS Supervision during execution and installation phase.
33.	<b>Well Completion and Fracturing of Shale formations</b>	Advice: on best practices for the design and completion of vertical as well as horizontal wells for multi-stage fracturing of Shale formations. -In designing, execution and post-HF evaluation of clay rich (>60%) shale formations.
34.	<b>Water Shut Off HP HT, Deep &amp; Ultra deep-water</b>	-Design/technical reviews of equipment and processes -Develop standard operating procedure. -Develop company's' ability to engineer total process solutions -Maintain awareness of international codes and standards. -Real-time monitoring of water shutoff jobs -Selection of water control technique Monitoring of jobs Post job analysis
35.	<b>Artificial Lift for deep-water wells</b>	-Design/optimization/technical reviews of equipment, Facilities and processes of Artificial Lifts -Development and dissemination of maintenance guidelines -Interface with clients, partners and associates -Supervision/guidance/ monitoring to maintain optimized lift functioning. -Expand and develop company's' ability to engineer total process solutions -Maintain awareness of international codes and standards affecting process equipment. -Expert advice on in-house process design routines and software -Introduce and promote new and cost effective technologies Minimizing well interventions for artificial lift.
36.	<b>Process Intensification Technologies for weight reduction on platforms</b>	-Identifying the equipment, Process on offshore well head platform, process platform which can be substituted by compact designs requiring less space affecting weight reduction. -Perform selection / Design based on new technologies, processes identified. -Assess the effectiveness of new designs on intended objective. -Frame out standard operating procedure. -Development and dissemination of maintenance guidelines Interface with clients, partners and associates Expand and Develop company's ability to engineer total process solution -Maintain awareness of international codes and standards affecting process equipment -Generate/Review requisite P&ID/PFD -Expert advice on in house process design routine and software

Sl. No.	Area of Expertise	Job Profile
37.	<b>Standard Gas Exploitation</b>	<ul style="list-style-type: none"> <li>-Perform selection / Design/technical reviews of equipment, Facilities and processes for exploitation of stranded gas using Technologies like GTL/FLNG/CNG/etc.</li> <li>-Development and dissemination of production and maintenance guidelines</li> <li>-Prepare optimized processing solutions Interface with clients, partners and associates Control process design of projects during execution</li> <li>-Expand and Develop company's ability to engineer total process solution</li> <li>-Maintain awareness of international codes and standards affecting process equipment</li> <li>-Generate/Review requisite P&amp;ID/PFD</li> <li>-Expert advice on in house process design routine and software</li> </ul>
38.	<b>Plants -Process Optimization</b>	<ul style="list-style-type: none"> <li>-Perform Process selection /Design/ technical reviews of Process equipment, Facilities and processes Experience of process</li> <li>-simulation and optimization of Gas sweetening (MDEA/ Sulfinol) Process and Gas dehydration plants</li> <li>-Preparation of Process Data sheets for static and rotating equipment's , Line list, Process guidelines for Mechanical and Instrumentation .</li> <li>-Development of standard operating procedures for units and equipment.</li> <li>-Interface with Vendors, Contractors, partners and associates</li> <li>-Expand and develop company's' ability to engineer total process solutions</li> <li>-Maintain awareness of international codes and standards affecting process equipment</li> <li>Knowledge of Advanced technologies for upcoming processes in the area of Gas sweetening Process (MDEA / Sulfinol) and Gas dehydration plants .</li> </ul>
39.	<b>Process Plants-Cryogenic operations</b>	<ul style="list-style-type: none"> <li>-Perform Process selection/</li> <li>-Design / technical reviews of Process equipment's, Facilities and processes</li> <li>-Experience of process simulation and optimization of C2/C3 Recovery based on cryogenic Process ,LPG Recovery (Turbo Expander)</li> <li>-Preparation of Process Data sheets for static and rotating equipment's, Line list, Process guidelines for Mechanical and Instrumentation .</li> <li>-Development of standard operating procedures for units and equipment.</li> <li>Interface with Vendors, Contractors, partners and associates</li> <li>-Expand and develop company's' ability to engineer total process solutions</li> <li>-Maintain awareness of international codes and standards affecting process equipment</li> <li>Knowledge of Advanced technologies for upcoming processes in the area of C2/C3 Recovery based on cryogenic Process , LPG Recovery(Turbo Expander) .</li> </ul>
40.	<b>CBM</b>	<ul style="list-style-type: none"> <li>-Perform Process selection /Design/ technical reviews of Process equipment, facilities and processes for CBM field development.</li> <li>-Experience of simulation and optimization.</li> <li>-Development of standard operating procedures for units and equipment (both static and rotating) and issue Process guidelines for Mechanical and Instrumentation.</li> <li>-Interface with Vendors, Contractors, partners and associates</li> <li>-Expand and develop company's' ability to engineer total process solutions</li> <li>-Maintain awareness of international codes and standards affecting process equipment</li> <li>-Knowledge of Advanced technologies in the area of artificial lift for CBM , fracturing and stimulation of the coal seams, adsorption / desorption technologies etc.</li> </ul>
41.	<b>Structure Engineer</b>	<ul style="list-style-type: none"> <li>-Offshore Foundation Investigation and Analysis.</li> <li>-Jack-up Rig Leg Penetration analysis ,Design of Offshore \pile Foundation</li> <li>-Estimation of Pile Capacities and Generation of p- y, t-z and q-z</li> <li>-Laboratory testing of Soil Samples</li> <li>- Deep Water Foundation</li> </ul>
42.	<b>Maintenance High Speed Machine</b>	<ul style="list-style-type: none"> <li>-Analyze and trouble shoot High Speed Machines such as Gas / Dual Fuel Turbines / Gas Compressors.</li> <li>-Able to Monitor Condition and predict various parameters such as Vibration / conduct debris analysis etc.</li> </ul>
43.	<b>Static Equipment- Offshore / Onshore</b>	<ul style="list-style-type: none"> <li>-Able to Design various Static Equipment such as Pressure Vessels , HXs and Storage Tanks, Waste Heat Recovery Systems for Offshore Platforms.</li> </ul>
44.	<b>Underbalanced Drilling (UBD) or Managed Pressure Drilling (MPD) operations/ applications.</b>	<ul style="list-style-type: none"> <li>-Development of solution approaches and technical solutions for high-end engineering problems in the areas of advanced flow analyses, UBD, MPD and mentor flow modeling engineering within the team.</li> <li>-Coordinate the implementation and enhancement of Blade's MPD/UBD feasibility and Basis of Design and design tools.</li> <li>-Perform economic evaluations and field assessments for potential value of MPD/UBD technology.</li> <li>Evaluate equipment requirements and develop tender documentation.</li> <li>-Contribute growth strategy in MPD/UBD engineering</li> <li>-Provide on-site implementation and engineering support.</li> <li>-Real time evaluation of inflow potential of reservoirs, while drilling UBD wells.</li> <li>-Project scheduling and schedule tracking</li> </ul>
45.	<b>Extended Reach Well, Multi-lateral Wells/ HPHT</b>	<ul style="list-style-type: none"> <li>-Designing wells in support of a field development.</li> <li>-Preparing cost estimates and assessing risk.</li> <li>-Applying technology and innovation in directional drilling, mud systems, casing and drill string design, and completions.</li> <li>-Hole cleaning</li> <li>-Geological considerations in ERD wells Well profile, well path, and trajectory design</li> <li>-TAML junction definitions and their applicability to multilateral design</li> <li>-Multilateral well planning and drilling operations</li> <li>-Design and planning for conventional and complex Wells (ERD, HP/HT, Multilaterals)</li> </ul>
46.	<b>Expertise in Rock physics , Rock mechanics and Geomechanics</b>	<ul style="list-style-type: none"> <li>Geo-Mechanical Earth Modelling and Fracture characterization</li> <li>Rock Physics Modelling and Reservoir characterization for Carbonate Reservoir</li> </ul>
47.	<b>Expertise in Petro physics &amp; Rock physics of Clastics and Carbonates</b>	<ul style="list-style-type: none"> <li>Rock Physics Modelling and Reservoir characterization for Carbonate Reservoir</li> </ul>



Sl. No.	Area of Expertise	Job Profile
48.	MEOR	-Finding out suitable bacterial consortium for candidate reservoirs - Carrying out core flood study and conceptual planning for MEOR pilot. - Modelling of MEOR process in simulator
49.	Expertise in sequence identification on seismic, seismic and creation of integrated model using industry standard software	High resolution seismic sequence stratigraphy
50.	Shale geology, geomechanics, quantitative seismic interpretation	Unconventional (shale-oil/gas) exploration
51.	Expertize in image log processing using industry standard software	Image log processing and interpretation
52.	Expertize in simulation using industry standard software, contribution in field development	Dynamic Geocellular modelling
53.	Expertise in seismic data processing	Sub-Basalt Imaging
54.	Expertise in seismic data processing	Velocity modeling in complex setup for PSDM and Interpretation
55.	Expertize in rock physics and inversion using industry standard software	High resolution Seismic Petro-Elastic Inversion
56.	Specialized in Pre Stack seismic data processing using azimuthal and anisotropic variation	-Advance Seismic processing for quantitative Interpretation (AVO, Inversion etc.)
57.	LNG Marketing	-Member of the LNG / R-LNG Marketing team -Develop and implement R-LNG Marketing strategy. -Support line manager in all related responsibilities -Gather market data to populate databases. -Compile market reports. -Create / Refine the existing intelligence database and information network for LNG / R- LNG markets, shipping models, project schedules and economic models. -Evaluate macroeconomic country analysis; supply and demand; infrastructure access and applicable tariffs; netback price estimates and forecasts; risk analysis; -Provide inputs with regards to LNG Pricing and positioning through competitor analysis and market surveys/bench marking. Ensure LNG marketing assumptions are aligned with other product (Natural Gas) groups. -Deep Understanding of LNG or gas contracts Knowledge of PSC structures.
58.	Expertise in at least one industry standard software for Restoration, Facies mapping and Fault Seal Analysis	Structural modelling, Balancing and fault seal analysis
59.	Ecology & Biodiversity	-Carrying out Ecology & Biodiversity (EB) studies for EIA purpose involving an analysis of different parameters from biological environment point of view i.e. study of flora and fauna of terrestrial and aquatic biota of oil and gas fields for Exploratory and Development activities in operational areas of ONGC. -Developing Base line data for Ecology & Biodiversity through field surveys and sample collection as per the requirements of IL&FS manual of Ministry of Environment, Forest & Climate Change for offshore and Onshore Oil & Gas Exploration, Development and Production which includes standard methods being used for assessment of baseline flora & fauna, terrestrial and aquatic ecology, diversity indices, community structure & distribution pattern to maintain an ecological balance for sustainable growth. -Conduct various statistical studies for calculation of Bio-diversity indices of various species by using Shanon-Weiner and other diversity indices.

#### 8. Essential requirements in qualification:

a) The courses offered by Institutions/ Universities through the regular mode should be approved/ recognized by the necessary statutory bodies for employment to posts and services under the Central Government like Association of Indian Universities (AIU)/UGC/AICTE etc. Candidates who have obtained their qualification through distance learning/ part time mode are also eligible to apply provided their qualification is recognized by the relevant statutory bodies for employment to posts and services of the Central Government.

b) In case there is no mention of specialization in the qualifying degree as required in the Minimum Essential Qualifications above, candidates are to submit a certificate at the time of interview from their institution/ university with a clear mention of their specialization in the qualifying degree.

c) Qualifications mentioned in the table above are sacrosanct. No equivalent qualifications shall be accepted e.g. AMIE (Mechanical)/ AMIE(Electrical)/ AMIE(Civil) etc. shall not be acceptable as a Graduate degree in Mechanical Engineering/Electrical Engineering and Civil Engineering respectively.

9. **There is no fee required to be paid by the applicant for this exercise and no travel expenditure will be reimbursed to the candidates for appearing in Interview if called.**

## 10. Other Welfare & Benefits

- i. Family floater cover of ₹ 5.00 lakhs for employee & family consisting of spouse & two immediate dependents i.e. children and /or parents. A lump sum of ₹ 1000/- per month to meet OPD expenses for self and family .This amount shall be paid on monthly basis along with consolidated remuneration.
- ii. For travel, boarding and lodging, while on Company duty, TA/DA Rules as applicable to corresponding level of company executives, shall apply. Executives deployed on 14 days On/Off pattern, will be extended such facilities as available to the company executives of corresponding level.

## 11: Selection Process

Selection will be on the basis of Educational Qualification, Experience and performance in personal Interview. Candidates can only be called for interview provided they are shortlisted as per the shortlisted criteria of the applied post. The general shortlisting criteria would be as follows:

S.No.	Criteria	Maximum Marks
A.	Marks for minimum prescribed experience in Upstream Oil and Gas Industry	40
	Additional 02 marks for each additional completed year of experience in Upstream Oil and Gas Industry	10
B.	Marks for minimum prescribed experience in area of expertise	40
	Additional 02 marks for each additional completed year of experience in area of expertise	10
	<b>Total</b>	<b>100</b>

In case the number of candidates meeting the eligibility criteria and also possessing relevant experience certificates is more than five times the number of posts, such candidates shall be limited to five times the number of post based on the marks of shortlisting in order of merit.

Shortlisting and selection will be based on the details provided by the candidate along with scanned certificates uploaded; hence, it is necessary that applicants should furnish only accurate, full and correct information. Furnishing of wrong / false information or certificate will be a disqualification and ONGC will **NOT** be responsible for any consequence of furnishing of such wrong/false information or certificate

The final selection of the candidates shall be in on the following distribution of marks:-

**Qualification** : 30 marks ( 20 marks for minimum qualification., 3 marks for addl. higher inline qualification, addl. 3 marks for Ph.D. and addl. 3 marks(Maximum) for papers(one mark for every paper) published only in international/national journals or 3 Marks for certification for certain posts given as preference. In case a candidate also possesses the preferred qualification, he shall be awarded 1 mark irrespective of the fact that it may already have secured 3 marks for inline higher qualification.

**Experience:** Maximum 40 marks (Weightage of the marks of shortlisting criteria)

**Interview:** 30 marks.

**Total: 100 marks**

In order to qualify in the interview, General and OBC candidate must obtain a minimum of **60%** marks and SC/ST candidate must obtain a minimum of **40%** marks.

## 12: How to Apply

- i. Indian nationals fulfilling the requirements may apply online at the given link on [ongcindia.com](http://ongcindia.com). Candidates need to apply online only. No other mode will be accepted for receiving application.
- ii. Before registering/submitting their online applications on the website the candidates should possess the following:
  - a. Valid Mobile number in which the OTP will be sent for completing the registration process
  - b. Valid E-mail ID.
  - c. Scanned copy of recent passport size colour photograph of the candidate with white background containing signature of the candidate in a small white sheet pasted just below the photograph (Not more than 70 KB size)
  - d. Scanned copy of all certificates such as age, qualification and experience (Each scanned certificate not more than 1MB of size)
- iii. Candidates has to upload scanned copy of all certificates such as age, qualification and experience issued by the competent authority. In case of experience certificate, it should be clearly spelt out that the issuing authority is competent to issue such experience certificate.

iv. Before applying the candidate should ensure that he/she fulfils the eligibility criteria and other norms mentioned in the advertisement. Candidature is liable to be rejected at any stage of engagement process or after engagement if any information provided by the candidate is found false or is not found in conformity with eligibility criteria mentioned in the advertisement.

v. No changes shall be permitted once the candidate has saved and submitted the online application.

vi. All correspondence with the registered candidates shall be done through the registered E-mail ID only. The candidates are required to keep the registered E-mail ID active at least for one year, as also the Mobile Number used for receiving OTP.

vii. All information regarding candidates shortlisted for interviews, uploading the scanned certificates etc. shall be available on the website of ONGC-[www.ongcindia.com](http://www.ongcindia.com). No separate Interview Call Letters shall be sent to the candidates by post.

viii. The sole responsibility of uploading the scanned copies of certificates and downloading and printing of Interview call letter etc. shall be that of the candidate.

ix. The desirous candidates may visit ONGC website [www.ongcindia.com](http://www.ongcindia.com) and [www.reports.ongc.co.in](http://www.reports.ongc.co.in) (only for ONGC employees) for further information.

x. Candidates **employed in Govt. / Public Sector undertaking** will be required to produce **No Objection Certificate** at the time of interview.

xi. For any dispute, Courts of New Delhi will have the jurisdiction.

### 13. Important dates

a.	<b>Start Date for receiving online application</b>	<b>October 13, 2017 (Friday) (1200 hrs.)</b>
b.	<b>Last date for receipt of online application</b>	<b>November 03, 2017 (Friday) (1200 hrs.)</b>

### 14. Note

i. A candidates' admission at any stage of the selection process will be purely provisional subject to satisfying the prescribed eligibility conditions. Mere issue of call letter to the candidate will not imply that his/her candidature has been finally cleared by ONGC. ONGC takes up verification of eligibility conditions with reference to original documents only after the candidate has qualified for Interview.

ii. Engagement of selected candidates will be subject to their passing the Company's Medical Examination as per standards laid down under ONGC's Medical & Health Policy.

iii. The selected candidates are liable to be posted anywhere in India or abroad.

iv. For more information about the Company you may visit our website [www.ongcindia.com](http://www.ongcindia.com). Candidates can go through the "Frequently Asked Questions (FAQs)" at [www.ongcindia.com](http://www.ongcindia.com).

v. Any sort of canvassing or influencing the Officials related to the Recruitment/ Selection process would result in immediate disqualification of the candidature. In case of any dispute, the decision of the management of ONGC will be final and binding on all candidates.

**DGM (HR)–I/c-Corporate Recruitment**  
Oil and Natural Gas Corporation Ltd.  
Tel Bhawan, Dehradun

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