



RELIANCE INDUSTRIES LIMITED
Petroleum Business (E&P)
Notice Inviting Expression of Interest
(RIL/E&P/EOI/2015/01)
(Under International Competitive Bidding)

For All Oil & Gas Fields

Reliance Industries Limited (RIL), as operator, on behalf of itself & its co-venturers BP Exploration (Alpha) Limited, Niko (NECO) Limited, Niko (NELPIO) Limited and Hardy Exploration & Production (India) Inc. invites Expression of Interest (EOI) for the blocks acquired under NELP-I, NELP-II, NELP-III and NELP-V from reputed and experienced Contractors for following categories:

CATEGORY NO	CATEGORY DESCRIPTION
DRL/COMN/2015/1	All Drilling & Completion related Services, Equipment and Materials for Exploratory & Development Drilling, Completion, Workover & Intervention
GAG/COMN/2015/2	Geophysical and Seismic Services
DEV/COMN/2015/3	Geo-Technical Investigation for Offshore Field Development
DEV/COMN/2015/4	Geo-Physical Surveys for Offshore Field Development
DEV/COMN/2015/5	Geo-Hazard Studies for Offshore Field Development
DEV/COMN/2015/6	Design and Supply of X-Mas Trees, PLEM, Manifolds, Umbilical Distribution Hub, Subsea Distribution Unit, Subsea Distribution Assembly, Subsea Control System, Umbilical termination assemblies, Tie-in systems and Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for subsea applications, technical support during installation and commissioning, provision of operational spares, IWOCS, tools and maintenance support during the lifecycle of the field
DEV/COMN/2015/7	Design and Supply of various types of steel tube Umbilicals including technical support during installation and commissioning
DEV/COMN/2015/8	Supply of SAW Line pipes and bends for Subsea Application
DEV/COMN/2015/9	Supply of Seamless Line pipes and bends for Subsea Application
DEV/COMN/2015/10	Supply of Valves and Actuators for Subsea Application
DEV/COMN/2015/11	Design and Supply of Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for Offshore topside application
DEV/COMN/2015/12	Engineering, Procurement, Installation & Commissioning (EPIC) of Subsea Facilities & Pipelines for Deep Water Field Development and Offshore Platform Brownfield Modification Work
DEV/COMN/2015/13	Project Management Consultancy Services for Field Development
DEV/COMN/2015/14	Collection, Analysis and Interpretation of Meteorological and Oceanographic data for Offshore Field Development
DEV/COMN/2015/15	Design Review, Appraisal, Certification and Verification Agency for Offshore Facilities
DEV/COMN/2015/16	Services of Marine Warranty Surveyor

Interested Contractors are requested to visit our website www.ril.com for further details on the above and submit their Expression of Interest (hard copies in duplicate along with electronic copy on CD/DVD) with all details through courier / post and also through e-mail on deveioresponse.eandp@ril.com, on or before **31st August 2015**. The envelope should be superscribed as RIL/E&P/EOI/2015/01 along with category number.

Address for Communication:

Vice President - Supply Chain Management,
Reliance Industries Limited, Petroleum Business (E&P),
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CIN: L17110MH1973PLC019786

Further details on the above requirements are as below:

For All Oil & Gas Fields

Reliance Industries Limited (RIL), as operator, on behalf of itself & its co-venturers BP Exploration (Alpha) Limited, Niko (NECO) Limited, Niko (NELPIO) Limited and Hardy Exploration & Production (India) Inc. invites Expression of Interest (EOI) for the blocks acquired under NELP-I, NELP-II, NELP-III and NELP-V from reputed and experienced Contractors for following categories:

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DEV/COMN/2015/4	Geo-Physical Surveys for Offshore Field Development
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DEV/COMN/2015/6	Design and Supply of X-Mas Trees, PLEM, Manifolds, Umbilical Distribution Hub, Subsea Distribution Unit, Subsea Distribution Assembly, Subsea Control System, Umbilical termination assemblies, Tie-in systems and Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for subsea applications, technical support during installation and commissioning, provision of operational spares, IWOCS, tools and maintenance support during the lifecycle of the field.
DEV/COMN/2015/7	Design and Supply of various types of steel tube Umbilicals including technical support during installation and commissioning.
DEV/COMN/2015/8	Supply of SAW Line pipes and bends for Subsea Application.
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DEV/COMN/2015/10	Supply of Valves and Actuators for Subsea Application.
DEV/COMN/2015/11	Design and Supply of Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for Offshore topside application.
DEV/COMN/2015/12	Engineering, Procurement, Installation & Commissioning (EPIC) of Subsea Facilities & Pipelines for Deep Water Field Development and Offshore Platform Brownfield Modification Work.
DEV/COMN/2015/13	Project Management Consultancy Services for Field Development.
DEV/COMN/2015/14	Collection, Analysis and Interpretation of Meteorological and Oceanographic data for Offshore Field Development.
DEV/COMN/2015/15	Design Review, Appraisal, Certification and Verification Agency for Offshore Facilities.
DEV/COMN/2015/16	Services of Marine Warranty Surveyor.

Contractors interested to pre-qualify for receiving tenders are required to submit the information as detailed below:

Category No: DRL/COMN/2015/1 for All Drilling & Completion related Services, Equipment and Materials for Exploratory & Development Drilling, Completion, Workover & Intervention

➤ **Scope**

Supply of Equipment, Materials and services for Exploratory & Development Drilling, Completion, Workover & Intervention.

➤ **Contractor shall submit:**

- Details of contracts executed in preceding five years including client contact details (Please attach the details with complete technical information and appropriate certification / documentation).
- Details of Equipment/Resources directly owned and details of key technical personnel/ organization chart.
- Company profile and audited financial results (balance sheet) for last five years.
- Details of present work commitments or anticipated work.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent equipment/material/service provider.

- Contractors are requested to respond to one or more of following sub-categories:

DAC/COMN/2015/1	Description of Service	Reference No.
All Drilling & Completion Related Services, Equipment And Materials for Exploratory & Development Drilling, Completion, Workover & Intervention	1. New Generation Floaters (Drill ships / Semi)	DAC/COMN/2015/1.1
	2. Drilling & Fluid Engineering & Maintenance - WBM / SBM / OBM	DAC/COMN/2015/1.2
	3. Electro logging Services	DAC/COMN/2015/1.3
	4. Solid control equipment & services (Including Filtration)	DAC/COMN/2015/1.4
	5. Cementing Equipment, Hardware, Chemical, Additives and Services	DAC/COMN/2015/1.5
	6. Drilling Tools/ Fishing / Milling / Abandonment	DAC/COMN/2015/1.6
	7. Formation Evaluation & Coring	
	8. Down-hole motors, Rotary Steerable System, Directional Drilling & MWD / LWD Services.	DAC/COMN/2015/1.7 DAC/COMN/2015/1.8
	9. Casing / Tubing running equipment and services.	DAC/COMN/2015/1.9
	10. Coil tubing, Nitrogen & Stimulation services.	DAC/COMN/2015/1.10
	11. Slick-line service.	DAC/COMN/2015/1.11
	12. Hiring of OSVs with / without DP.	DAC/COMN/2015/1.12
	13. Hiring of PSVs with / without DP.	DAC/COMN/2015/1.13
	14. Hiring of DSVs with / without DP.	DAC/COMN/2015/1.14
	15. Hiring of MSVs with / without DP.	DAC/COMN/2015/1.15
	16. Hiring of AHTS with / without DP.	DAC/COMN/2015/1.16
	17. Hiring of Patrol or Security Boats with / without DP.	DAC/COMN/2015/1.17
	18. Operation & Maintenance of Helicopter	DAC/COMN/2015/1.18
	19. Rig positioning, Current measurements & Site Surveys.	DAC/COMN/2015/1.19
	20. ROV Services.	DAC/COMN/2015/1.20
	21. Supply of Casings, Pup Joints, Crossovers & Accessories	DAC/COMN/2015/1.21
	22. Supply of Tubings, Pup Joints, Crossovers & Accessories	DAC/COMN/2015/1.22
	23. Hole Enlargement Services	DAC/COMN/2015/1.23
	24. Liner Hangers Supply & Services	DAC/COMN/2015/1.24
	25. Supply of Drill Bits (Roller / PDC / Diamond) / Hole Openers / Reamers / Stabilizers	DAC/COMN/2015/1.25
	26. Drilling Fluid Materials & Additives	DAC/COMN/2015/1.26
	27. Supply of Oil Well Cement & Additives	DAC/COMN/2015/1.27
	28. Mudline Suspension systems	DAC/COMN/2015/1.28
	29. Near balance Drilling Services	DAC/COMN/2015/1.29
	30. Operation, House-keeping, Maintenance and Management of Supply base facilities and infrastructure	DAC/COMN/2015/1.30
	31. CHA services	DAC/COMN/2015/1.31
	32. Freight forwarding services	DAC/COMN/2015/1.32
	33. Transportation Services	DAC/COMN/2015/1.33
	34. Hiring of P&M for shore base	DAC/COMN/2015/1.34
	35. Fuel Supply (HSD, HF-HSD, LDO, ATF, Bio Diesel) for Vessels, Rigs & Helicopters	DAC/COMN/2015/1.35
	36. Supply of Mudmats	DAC/COMN/2015/1.36
	37. DKD / MOTF Services	DAC/COMN/2015/1.37
	38. Geotechnical/ Soil Investigation	DAC/COMN/2015/1.38
	39. Sand Control Equipment & Services	DAC/COMN/2015/1.39
	40. Wellbore Surveys	DAC/COMN/2015/1.40
	41. Weather forecasting Services	DAC/COMN/2015/1.41
	42. Mud logging Services	DAC/COMN/2015/1.42
	43. H2S Services	DAC/COMN/2015/1.43
	44. DST Equipment & Services	DAC/COMN/2015/1.44
	45. PVT analysis, Well Fluid Sampling & Analysis	DAC/COMN/2015/1.45
	46. Rig positioning QC services	DAC/COMN/2015/1.46
	47. Diving services	DAC/COMN/2015/1.47
	48. Communication Equipment	DAC/COMN/2015/1.48
	49. Any Specialized Services for HP/HT wells	DAC/COMN/2015/1.49
	50. Services of High Pressure pumps/ Kill pumps	DAC/COMN/2015/1.50

DAC/COMN/2015/1	Description of Service	Reference No.
	51. Disposal of Hazardous and/or Dangerous goods (incl. drilling waste)	DAC/COMN/2015/1.51
	52. Services of Mud Cooler	DAC/COMN/2015/1.52
	53. Supply of MEG	DAC/COMN/2015/1.53
	54. A) Agencies providing Expat & Indian personnel for position of drilling supervisors, well completion engineer, Subsea supervisors, Completion Supervisor, Well Test Supervisor, RIG positioning QC services, well site geologist, consultancy services and any other category of personnel required in E&P Business.	DAC/COMN/2015/1.54A
	54 B) Agencies providing Indian personnel for plant supervision, operation, Assistant for IT jobs, assistance for operation of shore base and warehouses, assistance in facility management, Technicians, LAQ field officer, Radio operator, SAP professionals, AutoCAD Draughtsman, Document controller and any other categories required for operation of E&P business	DAC/COMN/2015/1.54/B
	55. Turbo drill services	DAC/COMN/2015/1.55
	56. Geophysical and pre drilling site surveys including side scan and sector scan sonar survey.	DAC/COMN/2015/1.56
	57. In situ internal casing isolation system	DAC/COMN/2015/1.57
	58. Third Party Reservoir/ Reserves/ Source Evaluation / Assessment of Oil/ Gas Fields	DAC/COMN/2015/1.58
	59. Geo-mechanical study	DAC/COMN/2015/1.59
	60. Hiring of Helicopter services	DAC/COMN/2015/1.60
	61. Helicopter Safety & Maintenance Audit	DAC/COMN/2015/1.61
	62. Drilling Optimization Consulting (Drilling the Limit)	DAC/COMN/2015/1.62
	63. Mooring Analysis and Equipment	DAC/COMN/2015/1.63
	64. Vessel safety and condition Audit	DAC/COMN/2015/1.64
	65. Oil Spill response Services	DAC/COMN/2015/1.65
	66. Well Control Services	DAC/COMN/2015/1.66
	67. Supply of Subsea Wellheads and running tools	DAC/COMN/2015/1.67
	68. Supply of Mud tanks	DAC/COMN/2015/1.68
	69. Supply and fabrication of Equipment required for base operation.	DAC/COMN/2015/1.69
	70. Supply of cargo baskets, lifting shackles, steel pallets, cargo containers, etc.	DAC/COMN/2015/1.70
	71. Supply of Mobile Silos	DAC/COMN/2015/1.71
	72. Supply of solid expandable tubular & running Services	DAC/COMN/2015/1.72
	73. Supply of Safety Equipment	DAC/COMN/2015/1.73
	74. Supply of H2S Detection system	DAC/COMN/2015/1.74
	75. Supply of Bulk handling plant.	DAC/COMN/2015/1.75
	76. NDT/Inspection services (incl. MPI & Load test services)	DAC/COMN/2015/1.76
	77. Hospitality Services	DAC/COMN/2015/1.77
	78. Marine environmental hind casting studies	DAC/COMN/2015/1.78
	79. Core Analysis & Formation Damage Studies	DAC/COMN/2015/1.79
	80. Laboratory Analysis : a. Geochemical Analysis b. Micro CT Scan c. Biostratigraphy & Palaeontological Services d. Sedimentology & Core Analysis Evaluation e. Special Studies	DAC/COMN/2015/1.80
	81. Environment rapid risk assessment services	DAC/COMN/2015/1.81

DAC/COMN/2015/1	Description of Service	Reference No.
	82. Vessel Tank cleaning services	DAC/COMN/2015/1.82
	83. Cutting Dryer System	DAC/COMN/2015/1.83
	84. Well Intervention Supply & Services	DAC/COMN/2015/1.84
	85. Toxicity testing of Drilling Mud (LC50)	DAC/COMN/2015/1.85
	86. Pre hire & Periodic Rig Inspection Services/ / Safety and Condition Audit	DAC/COMN/2015/1.86
	87. Preset Mooring Equipment & Services	DAC/COMN/2015/1.87
	88. Manage Pressure while Drilling (MPD) Service	DAC/COMN/2015/1.88
	89. Under balance drilling (UBD) Service	DAC/COMN/2015/1.89
	90. Supply of Cross Link Polymer	DAC/COMN/2015/1.90
	91. Metocean Data Measurement and Real Time Data Measurement	DAC/COMN/2015/1.91
	92. Supply of Completion Equipment and Completion Services	DAC/COMN/2015/1.92
	93. Supply & Services for Drilling & Completion of Multilateral Wells	DAC/COMN/2015/1.93
	94. Hiring of warehouse and premises on rental basis.	DAC/COMN/2015/1.94
	95. Hiring of storage facility for storing explosives near shore-base.	DAC/COMN/2015/1.95
	96. Inspection, Load Testing & Certification of Lifting Tools, Lifting / Hoisting Equipment	DAC/COMN/2015/1.96
	97. Threading, Gauging, Thread Inspection and Preservation of Casing, crossover & pup joints	DAC/COMN/2015/1.97
	98. Operation & Maintenance of Bulk Material Storage & Handling System (such as solids, Liquids, Waste etc.)	DAC/COMN/2015/1.98
	99. Operation & Maintenance of Material Handling Equipment	DAC/COMN/2015/1.99
	100. Supply of Potable / Drilling Water	DAC/COMN/2015/1.100
	101. IT Hardware including Laptops, Desktop, Servers, Printers, Plotters, Workstations, , IT accessories & spares	DAC/COMN/2015/1.101
	102. IT Storage Systems	DAC/COMN/2015/1.102
	103. IT Manpower service including services for FMS Engineers, Data Administrator, System Administrator, Net Backup Administrator and other related services.	DAC/COMN/2015/1.103
	104. Reservoir Monitoring System & Services	DAC/COMN/2015/1.104
	105. Sub Surface Safety Valves and Services	DAC/COMN/2015/1.105
	106. Supply of Down-hole Pressure and Temperature Monitoring System and Services	DAC/COMN/2015/1.106
	107. Gravel Pumping Services	DAC/COMN/2015/1.107
	108. Supply of Gravel Pack, Chemicals & Products.	DAC/COMN/2015/1.108
	109. Well Bore Clean-up Services	DAC/COMN/2015/1.109
	110. Tractor Operated Well Intervention Services	DAC/COMN/2015/1.110
	111. Well Suspension Services	DAC/COMN/2015/1.111
	112. Gravel Pack Evaluation Services	DAC/COMN/2015/1.112
	113. Special tools and services for Workover and Intervention	DAC/COMN/2015/1.113
	114. Engineering services – Riser analysis, Conductor analysis etc.	DAC/COMN/2015/1.114
	115. Engineering services for Drilling design and review.	DAC/COMN/2015/1.115
	116. Engineering services for Completion design and review	DAC/COMN/2015/1.116
	117. Engineering services for ERD (Extended reach) wells	DAC/COMN/2015/1.117
	118. Specialised tools for ERD (Extended reach) wells	DAC/COMN/2015/1.118
	119. Specialty chemicals for drilling, completion, workover & intervention	DAC/COMN/2015/1.119
	120. Other Services which are not included above but required for drilling and completion jobs.	DAC/COMN/2015/1.120

Category No: GAG/COMN/2015/2 for Geophysical and Seismic Services

➤ **Scope**

Provide geophysical and seismic services for marine/land/air applications.

➤ **Contractor shall submit**

- Details of contracts executed in preceding five years including client contact details (Please attach the details with complete technical information and appropriate certification / documentation).
- Details of Equipment/Resources directly owned and details of key technical personnel/ organization chart.
- Company profile and audited financial results (balance sheet) for last five years.
- Details of present work commitments or anticipated work.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent equipment/material/service provider.

Contractors are requested to respond to one or more of following sub-categories:

GAG/COMN/2015/2	Description of Services	Reference No.
Geophysical & Seismic Services	Marine	
	1. 2D/3D/4D Seismic Data Acquisition with / without Onboard Processing.	GAG/COMN/2015/2.1
	2. 2D/3D/4D Seismic Data Onshore Processing / Time and Depth Processing / Velocity Modeling / Illumination Studies/ Depth conversion/ Advanced/ Special Processing/ AVO / Inversion / Rock Physics Modeling.	GAG/COMN/2015/2.2
	3. 2D/3D/4D Seismic Survey Designing and illumination studies.	GAG/COMN/2015/2.3
	4. Shipborne Gravity / Magnetic / Gradiometry Surveys with / without 2D / 3D Seismic Surveys.	GAG/COMN/2015/2.4
	5. Controlled Source Electromagnetic (Sea Bed Logging) Surveys, Processing & Interpretation.	GAG/COMN/2015/2.5
	6. Marine Magneto Telluric Surveys, Processing & Interpretation	GAG/COMN/2015/2.6
	7. Multi Transient Electro Magnetic Surveys, Processing & Interpretation.	GAG/COMN/2015/2.7
	8. OBC Multi Component Seismic Surveys, Processing & Interpretation.	GAG/COMN/2015/2.8
	9. Multibeam / Backscatter / Bathymetry / Predrill / Geo Hazard / 2D Hi- Res & other Surveys.	GAG/COMN/2015/2.9
	10. Integrated Interpretation Services.	GAG/COMN/2015/2.10
	Land	
	11. 2D/3D/4D Seismic Data Acquisition.	GAG/COMN/2015/2.11
	12. 2D/3D/4D Seismic Data Onshore Processing / Time and Depth Processing / Velocity Modeling / Illumination Studies/ Depth conversion/ Advanced/ Special Processing/ AVO / Inversion / Rock Physics Modeling.	GAG/COMN/2015/2.12
	13. 2D/3D/4D Seismic Survey Designing.	GAG/COMN/2015/2.13
	14. Gravity / Magnetic / Gradiometry Surveys.	GAG/COMN/2015/2.14
	15. Multi Transient Electromagnetic Surveys.	GAG/COMN/2015/2.15
	16. Integrated Interpretation Services.	GAG/COMN/2015/2.16
	Air	
17. Airborne Gravity / Magnetic / Gradiometry & other Surveys.	GAG/COMN/2015/2.17	
Others		
18. Operational Seismic and Log Data Archival / transcription / tape copying.	GAG/COMN/2015/2.18	
19. Large scale bit to bit Seismic & Log data transmission & copying using Industry Standard QC tools & Procedures.	GAG/COMN/2015/2.19	

	20. Provision of supply of QA / QC personnel for marine and land surveys for seismic, electromagnetic, multibeam etc.	GAG/COMN/2015/2.20
	21. Provision of supply of QA / QC personnel / consultancy for Processing integrated interpretation etc.	GAG/COMN/2015/2.21
	22. Establishing a corporate data store for petroleum E& P data.	GAG/COMN/2015/2.22
	23. Gravity & Magnetic Data Processing for Onshore & Offshore Blocks	GAG/COMN/2015/2.23

Category No: DEV/COMN/2015/3 for Geo-Technical Investigation for Offshore Field Development

➤ **Scope**

Carry out Geo-technical investigations for offshore oil and gas projects with capability of performing in seabed mode and drilling mode, perform in situ, offshore and onshore soil testing, interpret and prepare geotechnical engineering reports.

➤ **Contractor shall submit:**

- Details of experience in providing geo-technical investigations in water depths ranging from 100 m to 2000 m in the last 10 years.
- List of geo-technical investigation vessels owned/leased along with details of the vessel, in-situ testing and offshore soil testing equipment. Contractor shall provide the limitations of vessel and equipment, if any.
- List of personnel (Offshore operations, soil testing, interpretation & Report preparation) having experience in similar projects along with CVs.
- Details and location of Onshore soil testing facilities.
- Details of present work commitment and anticipated work load of geo-technical investigation vessels.
- Company profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent service provider.

Category No: DEV/COMN/2015/4 for Geo-Physical Surveys for Offshore Field Development.

➤ **Scope**

Carry out Geo-Physical surveys for establishing field layout, pipeline and umbilical routes and current measurements as required for offshore oil and gas projects. Contractor shall be able to interpret data and prepare detailed reports and drawings.

➤ **Contractor shall submit:**

- Details of experience in carrying out geo-physical surveys in water depths ranging from 100 m to 2000 m in the last 10 years.
- List of geo-physical survey vessels owned/leased along with details of the vessel, geo-physical survey equipment for bathymetry, side scan sonar, sub bottom profiler etc. Contractor shall provide the limitations of vessel and equipment, if any.
- List of key personnel (Offshore operations, Offshore Survey, Geo-physics, Data Interpretation and Report preparation) having experience in similar projects along with CVs.
- Details of present work commitment and anticipated work load of geo-physical survey vessels.

- Company profile and audited financial results (Balance Sheet) for last five years
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent service provider.

Category No: DEV/COMN/2015/5 for Geo-Hazard Studies for Offshore Field Development.

➤ **Scope**

Carry out Geo-hazard studies to identify risks and potential geo-hazard areas, perform risk analysis & engineering evaluation and provide recommendations for offshore oil and gas projects.

➤ **Contractor shall submit:**

- Details of experience in carrying out Geo-hazard studies for Offshore Oil and Gas projects in the last 10 years.
- Expertise in the areas of Geology including sub-surface geology, Geophysical, Geotechnical and Earthquake engineering.
- List of key personnel having experience in similar studies along with CVs.
- List of applicable software available with Contractor.
- Details of present work commitments and anticipated work load.
- Company profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent service provider.

Category No: DEV/COMN/2015/6 for Design and Supply of X-Mas Trees, PLEM, Manifolds, Umbilical Distribution Hub, Subsea Distribution Unit, Subsea Distribution Assembly, Subsea Control System, Umbilical termination assemblies, Tie-in systems and Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for subsea applications, technical support during installation and commissioning, provision of operational spares, IWOCS, tools and maintenance support during the lifecycle of the field.

➤ **Scope**

Design and Supply of subsea hardware such as Xmas Trees, PLEM, Manifolds, Umbilical Distribution Hub, Subsea Distribution Unit, Subsea Distribution Assembly, Subsea Control System, Umbilical Termination Assemblies, Tie in Systems and Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for subsea applications along with all associated tools & IWOCS for installation and operation for deep water oil and gas projects in water depths ranging from 100 m to 2500 m. This scope also includes supply of operational spares and maintenance support during the lifecycle of the field.

➤ **Contractor shall submit:**

- Details of experience in supplying each type of hardware in the past 10 years for deep water oil and gas projects in water depths ranging from 100 m to 2500 m. Contractor to quantify each type of subsea hardware including OPPS/HIPPS supplied indicating the installed water depth, client name, project name, contract value, year of operation/delivery etc. as a minimum.

- Details of experience in providing technical support during installation and commissioning, providing installation & operational spares, IWOCs, tools and maintenance support.
- Details of the Manufacturing locations and total annual manufacturing capacity for each type of subsea hardware.
- List of Key personnel along with CVs for Project Management, Procurement, Engineering, Interface Management, Manufacturing & testing of each type of subsea equipment.
- Details of present work commitments and anticipated work load.
- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent subsea equipment supplier.

Category No: DEV/COMN/2015/7 for Design and Supply of various types of steel tube Umbilicals including technical support during installation and commissioning.

➤ **Scope**

Design and Supply of various types of steel tube umbilical along with tools for installation and operation for deep water oil and gas projects in water depths ranging from 100 m to 2500 m.

➤ **Contractor shall submit**

- Details of experience in supplying each type of steel tube umbilical in the past 10 years for deep water oil and gas projects in water depths ranging from 100 m to 2500 m. Contractor to quantify each type of steel tube umbilical supplied indicating the installed water depth, client name, project name, contract value, year of operation/delivery etc. as a minimum
- Details of experience in providing technical support during installation and commissioning, providing installation & operational spares and tools
- Details of the Manufacturing locations and total annual manufacturing capacity for each type of steel tube umbilical.
- List of Key personnel along with CVs for Project Management, Procurement and Engineering, Interface Management, Manufacturing & testing of each type of steel tube umbilical.
- Details of present work commitments and anticipated work load.
- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent steel tube umbilical supplier.

Category No: DEV/COMN/2015/8 for Supply of SAW Line pipes and bends for Subsea Application.

➤ **Scope**

Supply of various grades of long seam SAW line pipes and bends for deep water oil and gas projects in water depths ranging from 100 m to 2500 m.

➤ **Contractor shall submit:**

- Details of experience in supplying SAW Line pipes and bends in the past 10 years for deep water oil and gas projects. Contractor to quantify each type of line pipe and bends supplied

and value for each order. Contractor to specify whether the supply is for subsea applications.

- Details of production capabilities, in particular for X-65 grade pipes of minimum average length of 12.2 meters (for each Diameter & maximum Wall Thickness) up to 24" dia. Wherever 12.2 meters of minimum average length is not possible, contractor may specify the maximum possible lengths against diameters and wall thicknesses.
- Details of the Manufacturing locations and total annual manufacturing capacity for each type of line pipe and bends.
- Details of certification of pipe mills from third party agencies like DNV/LRS/ABS/API for manufacture of line pipes and bends.
- Details of present order book and anticipated work load.
- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent line pipe and bends supplier.

Category No: DEV/COMN/2015/9 for Supply of Seamless Line pipes and bends for Subsea Application.

➤ **Scope**

Supply of various grades of seamless line pipes and bends for deep water oil and gas projects in water depths ranging from 100 m to 2500 m.

➤ **Contractor shall submit:**

- Details of experience in supplying Seamless Line pipes and bends in the past 10 years for deep water oil and gas projects. Contractor to quantify each type of line pipe and bends supplied and value for each order. Contractor to specify whether the supply is for subsea applications.
- Details of production capabilities, in particular for X-65 grade pipes of minimum average length of 12.2 meters (for each Diameter & maximum Wall Thickness) up to 20" dia. Wherever 12.2 meters of minimum average length is not possible, contractor may specify the maximum possible lengths against diameters and wall thicknesses.
- Details of the Manufacturing locations and total annual manufacturing capacity for each type of line pipe and bends.
- Details of certification of pipe mills from third party agencies like DNV/LRS/ABS/API for manufacture of line pipes and bends.
- Details of present order book and anticipated work load.
- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent line pipe and bends supplier.

Category No: DEV/COMN/2015/10 for Supply of Valves and Actuators for Subsea Application.

➤ **Scope**

Supply of various types of valves and actuators of pressure rating 600# and above for deep water oil and gas projects in water depths ranging from 100 m to 2500 m.

➤ **Contractor shall submit:**

- Details of experience in supplying valves and actuators in the past 10 years for deep water oil and gas projects in water depths ranging from 100 m to 2500 m. The details shall indicate type of valves, valve size, pressure rating, actuator type, water depth of application, client name, project name, contract value etc. as a minimum.
- Details of the manufacturing locations and total annual manufacturing capacity for each type of valves and testing facilities details including that for Hyperbaric testing.
- Details of present order book and anticipated work load.
- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent valve supplier.

Category No: DEV/COMN/2015/11 for Design and Supply of Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for Offshore Topsides Applications.

➤ **Scope**

Detailed Design & Engineering, Supply of Equipment, System Integration, Manufacturing, Qualification Testing, System Certification, Installation & Pre-commissioning support of Over Pressure Protection System (OPPS) including High Integrity Pressure Protection System (HIPPS) for offshore topside applications.

➤ **Contractor shall submit:**

- Details of experience in supplying OPPS/HIPPS in the past 10 years for offshore topside applications including detailed design, supply of HIPPS equipment, manufacturing, qualification testing, system integration & certification of HIPPS in full compliance with the requirements detailed in IEC 61511, 61508 and other applicable standards
- Contractor to quantify OPPS/HIPPS supplied indicating the projects name, type and size of valves, pressure rating, client name, safety levels, contract value etc. as a minimum
- Contractor to provide the technical information and appropriate certification / documentation, for all the hardware performing a safety or supporting ancillary function within the topside OPPS/HIPPS. Typically this shall include;
 - a) Sensors (Pressure Transmitters)
 - b) Logic Solver
 - c) Isolation Valves
- Details of the Manufacturing locations and total annual manufacturing capacity.
- Details of resources available, its technical capability to undertake topside OPPS/HIPPS development and design activities. Contractors to provide CVs of key technical personnel having experience in similar works. Contractor to also confirm its capability to perform the entire package.
- Details of experience in providing technical support during installation and commissioning, providing installation and operational spares, tools and maintenance support.
- Details of present order book and anticipated work load.
- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent OPPS/HIPPS supplier for topside applications.

Category No: DEV/COMN/2015/12 for Engineering, Procurement, Installation & Commissioning (EPIC) of Subsea Facilities & Pipelines for Deep Water Field Development and Offshore Platform Brownfield Modification Work

➤ **Scope**

Engineering and Detailed Design of deep water field development & Procurement of various items (other than free issue items), fabrication of subsea structures, transportation of line pipes, subsea structures etc., supply & installation of rigid and flexible pipelines, rigid risers, tie-in spools, PLETs, jumpers, umbilicals & other subsea equipment, undertake offshore platform brownfield modification work, testing and pre-commissioning of subsea facilities & pipelines and providing commissioning assistance for subsea facilities & pipelines for deep water oil and gas projects.

➤ **Contractor shall submit:**

- Details of experience in past 10 years in executing EPIC (Engineering, Procurement, Installation and Commissioning) projects for deep water field development and offshore platform brownfield modification work, either on its own or in a tie-up with reputed companies.
- Details of resources available; such as (a) Engineering and detail design (b) Pipelay vessels, umbilical installation vessels, subsea construction and installation vessels; (c) fabrication facilities; (d) Testing, Pre-Commissioning and Commissioning details such as agencies, vessels etc.
- Details of services that may be sub-contracted; along with list of sub-contractors and experience of the subcontractors in executing the similar services for deep water development projects & offshore platform modification works.
- Company profile and audited financial results (Balance Sheet) for the last five years.
- Details of present Work commitment and anticipated work.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that contractor is a competent contractor capable of executing deep water field development projects.

Category No: DEV/COMN/2015/13 for Project Management Consultancy Services for Field Development.

➤ **Scope**

Provide project management consultancy services for executing oil & gas projects including services such as project management, contract management, interface management, engineering support services (in key engineering disciplines), installation, pre-commissioning & commissioning support services, QA/QC management during manufacturing, installation and commissioning and expediting.

➤ **Contractor shall submit:**

- Details of experience in providing project management services in the past 10 years for oil and gas projects.
- List of key personnel along with CVs for project management, contract management, interface management, engineering support in various disciplines, installation, pre-commissioning and commissioning support, QA/QC personnel in various disciplines.
- Details of present work commitments and anticipated work load.

- Company Profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent service provider.

Category No: DEV/COMN/2015/14 for Collection, Analysis and Interpretation of Meteorological and Oceanographic data for Offshore Field Development.

➤ **Scope**

Collect, analyse and interpret meteorological and oceanographic data for use in the design, installation and operation of offshore marine facilities / structures, including floating vessels, drilling rigs and pipeline for the oil and gas field development and prepare detailed reports and the drawings.

➤ **Contractor shall submit:**

- Details of experience in collection, analysis and interpretation of meteorological and oceanographic data in offshore field development in the last 10 years.
- List of key personnel having experience in similar studies along with CVs.
- Details of present work commitments and anticipated work load.
- Company profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent engineering service provider.

Category No: DEV/COMN/2015/15 for Design Review, Appraisal, Certification and Verification Agency for Offshore Facilities.

➤ **Scope**

The scope will involve design review and appraisal, risk assessment & certification of offshore developments (both shallow and deep water facilities) covering various stages of the project (from design to commissioning including offshore platform modification works) and subsequent issuance of certificates of conformity on successful completion of these activities.

➤ **Contractor shall submit:**

- Experience in carrying out Certification and Verification Agency services for offshore field developments (both shallow water and deep water facilities) in the last 10 years, clearly bringing out project name, water depth, Contract value and the scope of work performed in each project.
- List of key personnel having experience in similar studies along with CVs.
- Details of present work commitments and anticipated work load.
- Company profile and audited financial results (Balance Sheet) for last five years.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that Contractor is a competent service provider.

Category No: DEV/COMN/2015/16 for Services of Marine Warranty Surveyor.

➤ **Scope**

Provide Services of Marine Warranty Surveyors related to transportation of XMTs, umbilicals, line pipes and subsea structures and Installation of Pipelines, XMTs, PLETs, jumpers, umbilicals & subsea structures.

➤ **Contractor shall submit:**

- Details of experience in past 10 years in providing services of Marine Warranty Surveyors for Oil and Gas projects.
- Details of resources available to perform the Marine Warranty Services and CVs of Key Surveyors.
- Company profile and audited financial results (Balance Sheet) for the last five years.
- Details of present work commitment and anticipated work.
- Brief on Health, Safety, Environment and Quality Assurance systems followed along with track record for last three years and any relevant certification.
- Any other relevant information that will establish that contractor is a competent service provider.

The above information for all the categories is to be submitted in the Summary Sheet as given below.

CONTRACTOR'S DETAILS	
Name of the Company	
Proposal ref.	
Proposal Date.	
Key Contact Details Name: Tel No: Email:	

SUMMARY SHEET

[TO BE SUBMITTED ON A CD/DVD & TWO HARD COPIES]

Category/ Sub - category No.	Category of Equipme nt /Materials /Services	Broad Specificatio ns/ details of Equipment/ Vessel/ Resources (as applicable)	Contracto r's past performa nce and supply record	List of major clients (covering Projects of preceding years , as applicable including ongoing projects)	Approx. value of Contract s	Contra ct period	Compa ny profile	Certificates API / ISO or others as applicable & validity (attach copies)

Interested Contractors are requested to submit their Expression of Interest (hard copies in duplicate along with electronic copy on CD/DVD) with all details through courier / post and also through e-mail on deveioresponse.eandp@ril.com, on or before **31st August 2015**. The envelope should be superscribed as RIL/E&P/EOI/2015/01 along with category number.

Address for Communication:

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