

## **ADDITIONAL LIST of ITEMS for PRODUCT DEVELOPMENT**

**Indigenous vendors having requisite manufacturing capability may submit Expressions of Interest (EOI) for the relevant item(s). The Development Order Policy, 2025, available on the portal, may be referred to for detailed guidelines and eligibility criteria.**

**Head INDEG, Oil and Natural Gas Corporation Ltd., Tower-A, 4th Floor,  
Deendayal Urja Bhawan 5 A - Nelson Mandela Marg, Vasant Kunj, New Delhi-  
110070 (E-mail: indeg@ongc.co.in)**

| <b>Category</b>                      | <b>Item Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tubulars</b>                      | <ol style="list-style-type: none"><li>1. Flush Joint casing and accessories.</li><li>2. Vacuum Insulated Tubing.</li><li>3. Q-125 Casing</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cementing Equipment/ Chemical</b> | <ol style="list-style-type: none"><li>4. Cement Additives,</li><li>5. Cement Retainers for HPHT Operations (All Sizes),</li><li>6. Cement Support Tool (All Sizes),</li><li>7. Cementing Unit,</li><li>8. Special Oil Well Cement for HPHT Well (Dykerhoff Cement),</li><li>9. Expandable Liner Hangers (All Sizes)</li><li>10. External Casing Packers (All Sizes),</li><li>11. Hydraulic Stage Collar (Cementing) of High Grade for Above 300F,</li><li>12. Microfine Cement,</li><li>13. Subsea Cementing Plugs (All Sizes) with Cementing Head for Floater Rigs Cement Test Equipment viz., HTHP-Curing Chamber,</li><li>14. HTHP-Consistometer,</li><li>15. Waring Blender-Constant Speed Mixer, Static Gel Strength Analyzer and Wettability Tester.</li><li>16. Cementing Head with plugs (except sizes 5 1/2", 7", 9 5/8", 13 3/8", 20"),</li><li>17. Batch Mixer,</li><li>18. Atmospheric Consistometer,</li><li>19. HTHP-Consistometer,</li><li>20. Ultrasonic Cement Analyser,</li><li>21. Stirred Fluid Loss Apparatus,</li><li>22. Static Gel Strength Analyzer and Wettability Tester Mechanical Property Analyzer</li></ol> |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Drilling/Rig<br/>Equipment &amp; Tools</b> | 23. Advanced Drilling Instrumentation System,<br>24. Control Panel for Power Pack - Offshore,<br>25. Dead Line Anchor,<br>26. Diaphragm Operated Shutoff Control Valve,<br>27. Drilling Handling Tools,<br>28. Hole Reamer,<br>29. Hydraulic & Pneumatic Spinner,<br>30. Pipe Racking System,<br>31. PDC / Premium Bits,<br>32. Rig Communication System,<br>33. Kinetic Energy Management System,<br>34. Refrigerated type air dryers sea water cooled,<br>35. Fishing Tools,<br>36. Rotary Substitutes,<br>37. Drilling jars,<br>38. intensifiers,<br>39. shock sub,<br>40. rotary, Swivel, Roller Reamer, key seat wiper,<br>41. Tubing stripper,<br>42. Drilling simulator,<br>43. Hot Tapping and Valve Drilling machine up to 5000 psi,<br>44. Tong line Pull and Load Cell Assembly,<br>45. Internal Casing Cutter,<br>46. Wellhead Sampling Kits.<br>47. Solid control equipment.<br>48. Elevator<br>49. Rotary Slip<br>50. Manual Power Tong |
| <b>Geophysical<br/>Equipment</b>              | 51. Field Processing Unit,<br>52. Global Navigation Satellite System,<br>53. Specialised Geological, Chemical and R&D Lab Equipment<br>Seismic Data Acquisition System,<br>54. Shooting System for Seismic Data<br>55. Acquisition, Seismic Data Processing / Imaging Software, Tape<br>Drive Unit,<br>56. VSP Data Acquisition System,<br>57. VSP Processing Software.<br>58. Seismic Survey Designing software,<br>59. Seismic Data inversion, Interpretation & reservoir studies<br>software,<br>60. Techno economics software                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Plant<br/>Material/Equipment</b>           | 61. Process Gas Compressors Screw,<br>62. Expander Compressors for Cryogenic Process,<br>63. Ethyl Mercaptan,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | 64. Lab Equipment for research area in energy sector/Hydrocarbon /Chemical Testing & Analyser including softwares for R&D in production and exploration in Oil & Gas,<br>65. Aqueous Sulpholane (Aqueous Sulfolane),<br>66. Source Rock Pyrolyzer.<br>67. Portable heavy duty De-Humidifier<br>68. Salt air resistant for VFD house of TDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Instruments &amp; Guages</b> | 69. Borescope Unit - TG/PGC,<br>70. Weight Indicator,<br>71. Thermocouple for Downhole Temperature,<br>72. Specialized lab equipment for petrophysical lab,<br>73. Pressure Volume Temperature (PVT) lab and Bottom hole data acquisition lab Equipment/ Reservoir studies lab equipment,<br>74. Downhole Pressure & Temperature Gauges,<br>75. Cold Finger Apparatus ,<br>76. Ageing Cell,<br>77. Automatic Imbibrometer .<br>78. Tong Line Pull Gauge,<br>79. High Accuracy Oil Field Pressure recorder ,<br>80. Battery operated digital Oil Field pump stroke counter system,<br>81. Digital Well analyser (Echo meter)<br>82. Electronic Time cycle Controller                                                                                                                                                |
| <b>Mud Chemicals/ Items</b>     | 83. Rheometer/ Viscometer. Polyanionic Cellulose (all grades),<br>84. Microbubble low density fluid,<br>85. Nanotechnology based /High performance lubricant,<br>86. Linear Swell Meter,<br>87. Specialized Loss Circulation Control Materials,<br>88. Corrosion Inhibitor (Oil/ Gas lines)<br>89. Corrosion Inhibitor (Oil/ Gas lines H2S)<br>90. Corrosion Inhibitor (Compressed gas lines)<br>91. Ammonium Bi-Sulphite<br>92. Proppants<br>93. Wax Dispersant/ Inhibitor<br>94. Piperazine Aqueous solution<br>95. Asphaltene Dispersant<br>96. Flow Improver/ PPD<br>97. Cement additive- Graphite for cement slurries<br>98. Cement additive- Metakaoline<br>99. Cement additive- Tri-Manganese Tetra Oxide<br>100. Cement additive- Weighted Spacer Surfactant<br>101. Cement additive- Dead Burnt Magnesite |
| <b>Offshore Equipment</b>       | 102. Anchor Mooring Chains and Hardware,<br>103. Sub-Sea Bop Control Hose Bundle,<br>104. Buoyancy Module Risers,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | 105. Life Buoy with Life Buoy Light & Lifeline,<br>106. Marine Riser System & Handling Tools,<br>107. Personnel Transfer Net/ Basket,<br>108. Reverse Osmosis Water Maker for Offshore Use,<br>109. Unit Coolers for Offshore,<br>110. Ultra Centrifuge with High Speed,<br>111. Gas Turbines,<br>112. Leg Braces for Jack-up Rig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Oil and Gas Industry Pumps</b> | 113. Pumps for Offshore 60 Hz,<br>114. Plunger Lift System,<br>115. All types of Sub Surface Pumps,<br>116. Condensate Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Production Equipment</b>       | 117. API Filtration Loss Apparatus/HPHT Fluid Loss Apparatus,<br>118. Coil Tubing Down Hole,<br>119. Equipment & Tools & Redress Kit,<br>120. ERD& PBR Packers,<br>121. Flame Arrestor and Burner Assembly,<br>122. Portable Ignitor Assembly,<br>123. RHSB Burner Pilot Nozzle,<br>124. Invalco,<br>125. Sand Bailer (Turbo Bailer),<br>126. PCP & its Accessories,<br>127. Sub Surface Safety Valve & Control Unit Along Accessories,<br>128. Dual Hydraulic Packer,<br>129. Tubing Handling Tools,<br>130. Telescopic Joint,<br>131. Seal bore Permanent Packers / Cut to release Packer & Bridge Plugs for HPHT wells (450 Deg F & 15000 Psi),<br>132. Electrical Submersible Progressive cavity pump,<br>133. Linear Rod Pump,<br>134. Linear Electrical Submersible Pump,<br>135. Hydraulic Workover unit,<br>136. Snubbing unit,<br>137. HI-LO Safety valve<br>138. Tubing Conveyed Sucker Rod (downhole) Pump<br>139. Rod Conveyed Sucker Rod (downhole) Pump/ SRP Pump with API<br>140. Downhole Gas Separator Downhole Anchor Catcher.<br>141. Matrix acidization tool<br>142. Control Lines (1/4" / 3/8" etc) with fittings & accessories<br>143. Sucker Rod BOP<br>144. Diaphragm Motor Valve (DMV)<br>145. Venturi type Orifice Valve |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Well Head, X-Mas Tree and BOPs</b> | 146. High Pressure Well Head And X-Mas Trees,<br>147. Unitized Well Head,<br>148. Choke & Kill manifold and Line,<br>149. High Pressure Hoses & Rotary Hoses,<br>150. Drilling Hose, Marine Hose,<br>151. Subsea Hose,<br>152. Subsea Wellhead & X-Mas Tree,<br>153. Electronic Well Head Manometer Subsea Valves,<br>154. Wellhead Shutdown Panels Pneumatic Control,<br>155. Sub-Sea Valve Control Fluid,<br>156. Hydraulically Operated Gate Valves / HCR Valves,<br>157. Flow Choke Valve (FCV)<br>158. Thermal Well Head,<br>159. Equipment/items for CSS (cyclic steam stimulation),<br>160. High Pressure & High Temp wellhead and X-mass tree,                                                                                                                                                                                                                                                                                                                                          |
| <b>Well Stimulation</b>               | 161. Various types of Well stimulation service (WSS) Unit,<br>162. Perforated Liner (5"Slotted),<br>163. Premium Sand Screen,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Logging Equipment</b>              | 164. Bottom Hole Oil and Gas Samplers,<br>165. Colour Printer for Well Log Data,<br>166. Control Line and Accessories,<br>167. Logging Unit & Tools Associated Software and Accessories,<br>168. Log Data Processing & Interpretation Software,<br>169. Logging Mast & Pressure Control Equipment,<br>170. Perforation Material Inclusive Explosives & Deep Penetration Charge (Perforation, Tubular Cutters, Side Wall Core) & Hardware,<br>171. Logging Tubing Conveyed Perforation Material,<br>172. Well Calipers,<br>173. Wettability Tester / Equipment,<br>174. Radioactive (RA) Source,<br>175. Electronic and Mechanical spares for Logging Unit and Tools,<br>176. Deep Penetration Charge (Tubing Puncture, Plug/Packer setting explosives),<br>177. Positive Displacement Samplers (PDS),<br>178. PVT Samplers,<br>179. Field Transfer Bench,<br>180. Transportation Sample Cylinder / Bottle Propellant (Solid) with Hardware Mechanical Cutter for Casing, Tubing and Drill Pipe. |
| <b>Fire Fighting Equipment</b>        | 181. Multilayer complete Fire Proximity Suit meeting EN 1486 or NFPA 1971 standard and marked with CE or UL,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                                                     |                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     |                                                                                                                                                                                                                                                                                                              |
| <b>Items required for crude oil/ gas processing</b> | 182. ARI Chemicals (ARI-310 C, ARI-350, ARI-400 & ARI-600),<br>183. Synthetic Lub Oil for Gas Turbines of Siemens Make,<br>184. Atomic Absorption Spectrophotometer,<br>185. Shear Mixer Pump,<br>186. Vapor Pressure Tester,<br>187. Rotary Evaporator,<br>188. Paraffin wax content apparatus (Petro test) |