OFFICE MEMORANDUM

Sub: Proposal of Ministry of Petroleum and Natural Gas (MoPNG) for general relaxation to Rule 161(iv)(b) of General Financial Rules (GFRs) for procurement of various items, which are critical for operation and expansion of oil and gas sector in the country, by Oil and Gas Public Sector Undertakings (PSUs) through Global Tender Enquiry (GTE).

The undersigned is directed to refer to Ministry of Petroleum & Natural Gas (MoPNG) D.O. No. G-38011/37/2020-Fin.I(E-34977) dated 09.12.2020 wherein MoPNG has requested to grant a general relaxation for procurement of various items (listed at annexure), which are critical for operation and expansion of oil and gas sector in the country, by Oil and Gas Public Sector Undertakings (PSUs) through Global Tender Enquiry (GTE).

2. The proposal has been examined in Department of Expenditure and a general relaxation has been granted for two years from the issue of this OM for procurement of items listed at annexure through GTE with the approval of Secretary, MoPNG for safe operations of plant and machinery and planned capacity building in oil and gas PSUs. A written decision shall be issued in each case with copy to Department for Promotion of Industry & Internal Trade (DPIIT) and Cabinet Secretariat, specifying the item for which exemption is given. However, MoPNG is requested to regularly engage with domestic industry to develop such items at the earliest.

3. This issues with the approval of Secretary (Expenditure).

Encl. : As above

(Kotluru Narayana Reddy)
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To

Sh. Tarun Kupoor,
Secretary,
Ministry of Petroleum and Natural Gas,
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Copy to : Secretary (Coordination), Cabinet Secretariat, Rashtrapati Bhawan, New Delhi. Email : secypg@nic.in
ANNEXURE

List of items related to Downstream and Midstream sector

1. Refinery & Petrochemical Catalysts:

CRU / CCRU Reformer, Platforming and NHT catalyst, Hydro treating catalysts, Hydrocracking- HCU /OHCU catalysts, Claus Catalyst, Merox catalyst, ISOM - Bensat/ Penex catalyst, PRU COS Hydrotlizer catalysts, Butamar / SARU catalyst, SRU catalyst, HGU PDS Catalyst (Si absorber+ 1st hydorgenator) catalyst, Fluidized Catalytic Cracking catalyst, Hydrodewaxing catalysts, isodewaxing catalysts, Hydrofinishing catalysts, Reformer Catalyst, Support balls, Refractory Balls, Benzene hydrogenation Catalyst, Liquid oxidation Catalyst, Petrochemical catalysts, Petrochemical Co Catalysts, HDPE Catalyst, Isomerization Catalyst, Shift-Reactors Catalyst, Ziegler natta catalyst, Non-Aromatic catalyst, Poly Propylene Catalyst, PRU Arsenic Bed Catalyst, CCR Net gas chlorite reactor, HGU PSA Catalysts, catalyst guard bed, Hydrogen Methanator catalyst, TGTU catalyst, PX NHT, Chloride Guard, Tatoray catalyst and Reforming catalyst, PTA Hydrogenation catalyst, Hot Oil (Therminol 66), LAB PACOL catalyst and Molec adsorbent, LC 2253 and Ax sorb 541 Butene-1 catalyst, AT / CT / Tri Ethyl Aluminium (TEAL) catalyst, CAB Catalyst, CAB2 Catalyst, CD (DEAC) co-catalyst.

2. Refinery and Petrochemical Specialty Chemicals and additives:

Adsorbents (HGU PSA Adsorbent), Desiccants (Specific high purity silica gel used in SWING unit, Ethylene drying and CO2 removal bed, Propylene drying and CO2 removal bed, Zeolite-5A, PRU drier molecular sieve, PPU drier molecular sieve, Molecular sieve Type IA), Selective Control Agent (DONOR-C - Cyclo-Hexyl Methyl Methoxysilane, Donor - D - Di-Cyclo-Pentyl-Di-Methoxy-Silane), Cyasorb 531/UV-12-Hydroxy-4-n-octoxybenzophenone, Optical brightener, Molecular sieves, Stereo Regulating Agents, Slip additives Cracking Agents, Deactivating agents, catalyst protecting agent, Solvents and Nucleating agents, ATF Merox filter clay, Peroxide-101, Ethyl mercaptan, Additives (Bottom Cracking Additive, CO Promoter, ZSM-5, Anti-Static Additive, Paraffinic Grease), Antioxidants (AO 1330, AO 1076, AO8, Igiax 1010, Irgafos 168, AO9, AO 1076, AO 168, AO06), AK stabilizer / A08 / Stabilization additive (Irganox 1010FF, Songnox 1010FF, Alkanox 20 Gr), AK stabilizer / A09 / Stabilization additive (Irgafos 168FF, Songnox 1680FF, Alkanox 240 Gr), AF stabilizer / A06 / Stabilization additive (Irganox 1076 FD, Songnox 1076 SB, Anox PP 18, Gr), Stabilization Additives Irganox B225FF, B215FF/Songnox 11B FF, 21 B FF, Antiblock, Tale (ABT-2501)/ Optiblock 8/ Optiblock 10, Chimasorb 944/UV 944, UV stabilizer 622, PD /2,4 Pentandione, Luperox 101/peroxide, GMS- 90 (Glycerol Monostearate), Polymer processing additive (PPA), PG/ Pelargonic acid/ C8-C10 fatty acid, Slip Agent (Erucamide, Armoslip EL, Crodamide ER, Finawax ER), DHT 4A/ Hycrete, DSTDTP, Phosphate168, Alkylamine, Silane, Pep Q), Di-methyl Di- Sulphide (DMDS), Neutralizing Amine, ISOM Make up gas drier adsorbents, ISOM-sulphur guard, Antistatic Additive for ATF (for conductivity improvement), Preblend stabilizer, PPU-Talc, RSH and COS guard bed for propylene, Licowax PED 191 HDPE additive, NA 21 & HPN20E and NX 8000 Poly Propylene additives,
Nucleating Agent (HPNA), Grease (Vaseline) and Mineral Oil (White Oil V-70), PD (2,4 Pentanediode) Deactivator, Mono-2-ethyl hexyl amine, Heat Transfer Fluid (DTA), Hexene-1, Extruder Hot Oil, DE-AC (13% diluted in Hydrobrute 380 White Mineral Oil), Aj stabilizer / A03, ThHAL (50%, diluted in Hydrobrute 380 White Mineral Oil), PG (Pelargonic acid) deactivator, UV Stabilizer (Inuvin 622 FF/Tinuvin 326FL/Cyanox 2888, Cyasorb THT 4801-Pastilles).

3. Imported Lubes & Grease

Hydraulic Fluid Special Chemolube, Mechanical Seal Oil, Lubricating Oil Cp-4601-46, Make:Cpi Eng, Compressor Lube Oil Kobe 202-K3, Nuto H32 Hydraulic Oil, Hot Oil (Thermolin 66), Grease Special P/N:10550-027, Nycolube 7040, Castrol Hyspin, EP-320, Mobil SHC 634, CP-1507-68, Duraclear DS 4609-7-F, Protomec 320, Ethylene Glycol, Gas Compressor Oil (CP-1516-100, CP-1508-22), Mobil NV 28, 3913-GL (M/s Syn USA), Anderol 786 (M/s Tenneco Chemicals Inc, USA), A unauthorized Lube-06, Marlotherm SH, Marlotherm SH, BAFCO Hydraulic Oil, BAFCO SPEC: 946, CPI 4600-10 / CPI 4600-68, KLUBER Summit 30, HITEC - 5708, HITEC 566, IRGALUBE 349, IRGALUBE 353, IRGALUBE ML 3010 A, IRGAMET 39, LZ - 5172, LZ - 859, LZ - 889 D, LZ 5941, MAK OILAD (122B10, 124D05, 125E13, 125E20, 125E24, 125E25, 133C14, 142B14, 142B16, 143C29, 145E26, 153C08, 153C09, 154D00, 154D01, 173C08, 174D00, 174D01, 212B01, 212B05, 213C11, 214D01, 215E03, 218H01, 225E01, 227G03, 245E01, 263C02, 264D01, 265E01, 265E06, 267G01, 312B04, 312B05, 315E03, 315E04, 315E06, 315E08, 315E10, 315E11, 315E12, 319I03, 322B02, 322B03, 322B04, 322B05, 322B06, 322B08, 325E03, 325E04, 332B01, 332B02, 332B04, 332B08, 332B09, 332B10, 332B11, 333C02, 334D01, 334D02, 335E02, 335E03, 335E06, 335E09, 411A01, 418H03, 421A01, 421A02, 426F01, 428H01, 428H03, 428H04, 448H11, 449I12, 451A00, 472B02, 479H01, 535E01, 536F00, 545E01, 546F00, 559102, 559104, 572B01, 591A01, 592B01, 592B02, 595E01, 596F01, 712B03, 731A01, 746F01, 799I08, 799I15, 799I16), RC 4801, VISCOPLEX 8-100, VISCOPLEX 8-450.

4. Base Oils

Phosphate ester (Durad 110), Alkyl aryl phosphate ester (Durad 220), Alkyl aryl phosphate ester (Roscan 623), TXP (trixylenyl phosphate), Polyalphaolefin 4 cst synthetic base fluid (PAO 4), Polyalphaolefin 2 cst synthetic base fluid (PAO 2), Polyalphaolefin 6 cst synthetic base fluid (PAO 6), Polyalphaolefin 8 cst synthetic base fluid (PAO 8), Polyalphaolefin 10 cst synthetic base fluid (PAO 10), Polyalphaolefin 40 cst synthetic base fluid (PAO 40), Polyalphaolefin 100cst synthetic base fluid (PAO 100), Aromatic base fluid (Hydrogenated Terphenyls), Polyglycol synthetic base fluid (Tecnosynt DC 46, DC 100), Synthetic ester base fluid (Hatcol 2901), Poloyl Ester Synthetic base fluid (Polyol Ester Synthetic base fluid), Complex ester, BIPHENYL (BP).
5. **Fuel Additives**

Vanlube 829, 1,2,3,4 Tetra Hydro Naphthalene, Organo Clay Gelant, Tac Oil C, Foamban 155, PC 2544, Yubase, Speciality Grease - Mixture of higher paraffin hydrocarbon, ST65692 (Biphenyl), Hydrogenated Terphenyl (ST58606), Additive for Gasoline Fuel (Speed Additive).

6. **Marine Additives:**

MAR 489 S- USD 22998, MAR 501 S-- USD 14034, MAR 730P - USD 22543, MAR 363 P- USD 12189, DISOPAC - USD 14598, A 127070- USD 18488, MAR 918 U- USD 12682.

7. **Technical Grade Urea (this is an imported raw material, required for production of Diesel Exhaust Fluid)**

8. **Specialty Laboratory and R&D Equipment**

Reference fuels for Quality Control equipment (T fuel, U fuel, Iso Octane, n-heptane etc), High Performance Liquid Chromatograph (HPLC), Heated Centrifuge Machine for testing of Crude, Auto- Penetrometer, Auto Softening Point Apparatus, UV-Vis Spectrophotometer, Auto Oxidation Stability Apparatus for MS & HSD, Auto Salt in crude analyser, Gas Chromatograph (testing of Refinery Gas and Propylene samples, Benzene Purity, Methyl tert-butyl ether (MTBE) analysis, DHA, SCD etc), Biological oxygen demand (BOD) analyser & Chemical oxygen demand (COD) analyser, Inductively Coupled Plasma Apparatus for Metal Analysis, Karl Fisher Coulometer, Portable fuel Analyzer (IROX), Microwave ashing furnace, Micro Carbon Residue Tester, Portable Auto Dew Point Analyser, Color View spectrophotometer, Stabinger Viscometer (Automatic), Auto Vacuum distillation, Automated Freezing Point Analyzer, Benzene analyser, Particle Counter Analyzer for Aviation turbine fuel (ATF), Conductivity Meter for ATF, Total Chlorine, Nitrogen and Sulphur Analyser, Fully automated Ball-On-Cylinder Lubricity Evaluator (BOCLE), Metrological Tube Rater, Trace Nitrogen Sulphur analyser, Jet Fuel Thermal Oxidation Tester (JFTOT), Ion Chromatograph, Metrological Tube Rater (JFTOT) - ITR/ ETR, Automated High Frequency Reciprocating Rig Lubricity Evaluator (HFRR) lubricity apparatus, Autotitrators for potentiometric and Coulometric analysis, Energy Dispersive X-Ray Fluorescence (EDXRF) Analyzer, Gas Chromatograph for analysis for Quality Control, Auto Smoke point Apparatus to test Smoke Point of ATF (Aviation Turbine fuel), ATF Conductivity Meter, Auto colorimeter, Auto freezing point, Auto Pour & Cloud Point Apparatus, Gas chromatograph, Total Sulphur Analyser, Auto density Meter, CFR Engine), RTFOT, Portable Particle Counter, Wavelength Dispersive XRF, Shear stability tester, TEOST (Thermo OxiEng oil simulation test), Drop Shape Analyser, TurbiscanLAB Expert, TAN/TBN apparatus for quality control, Karl Fisher Coulometer for water and moisture content, Refractometer for testing of DEF/ Adblue, Tensiometer, ED XRF Analyzer (R&D Equipment), Micrometer Range Electrode Coating Machine for Battery Current Collectors, Micron Range Battery Electrode Roll Pressing machine, Programmable Multi-electrolyte (Flammable) Filling Machine for Rechargeable Batteries, Rechargeable Battery Anode -Cathode body Crimping & Grooving, Programmable Slitting machine for Micrometer Thickness

9. **Pilot plants:**

Ebullated bed hydroprocessing pilot plant, Slurry hydroprocessing pilot plant, Hydroformylation pilot plant, Polymerization Kneader Reactor, Continuous Belt Dryer, Multistage Roller Mill, Glacial Acrylic Acid Purification Unit, High Speed Mixer-Coater, Agitator/Paddle Dryer, Hopper Dryer, FCC pilot plant and FCC catalyst testing unit (ACE), Solid oxide and PEM based Fuel cells, High throughput reactor.
10. **Plant Equipment and materials:**


11. **Instrumentation and Automation:**

Reactor/Regenerator Bed Multipoint Thermocouples, Vibration Monitoring System, Nucleonic Level measurements system, Moisture Analysers, Anti surge controllers, Control system (licensor, OEM supplied Mandatory), Water cut analysers in desalters, Control / safety Shutdown / Pressure relief valves having seat leakage class VI. Valves with exotic metallurgy trims and internal, H2S Analyser in sulphur recovery unit, Tail gas analyser in sulphur recovery unit, Feed gas Analyser in sulphur recovery unit, H2 / COS analyser in sulphur recovery, Analyser in Stack & ambient air quality measurement for SOx/NOx/CO/Ozone/VOC/PM 2.5/PM 10/Opacity, Water quality analysers like COD, BOD, Turbidity, TOC, Slide Valve in RFCC units, Product Sulphur analyser, NDIR analysers used in auto blending applications, Flash point analyser, Oxygen
Analyser, Hydrogen purity, Temperature sensor for Main combustion chamber in Sulphur Recovery Unit.

12. **Material for Crude and Product Pipeline:**

DRA (Drag Reducing Agents) for Crude Oil Pipelines, DRA for Product Oil Pipelines, PIG Valves, submarine cables.

13. **Petrochemical specific specialized Equipment & components:**

Extruder and pelletizer Package, Cutter Blades of Extruder, Bagging and Palletising Plant, automatic storage and retrieval system for petrochemical warehouse, bulk loading dispenser system, Radiant Coil for SRT-III and SRT-VI heaters.

14. **Fire-fighting and Safety Equipment:**

Hydraulic platform for rescue and firefighting, fire proximity suit, Blast resistance modules.

15. **Single Point Mooring components:**

Floating hoses, subsea hoses, SPM end shackles, SPM speciality valves (8" and above butterfly valves, 24 inch Subsea valve), SPM Mooring Hawser, Anti chafe chains, Support Buoys, Weld Plus End Couplings, Marine Breakaway Couplings, Umbilicals, Metallic Reducers, Camlock Couplings, Aluminium Anodes, Load Pin Assembly, Expansion Joints, special Butterfly Valves (procured once with Hoses), MIC testing kit, PLIDCO Flange Repair Ring, Sealant for Offshore Clamps, Hydraulic Power Units Spares for Offshore, Crude Oil Blending unit, Auto Samplers, Electric Resistance Probes (ER Probes).

16. **LPG, LNG and other Hydrocarbons to meet domestic supply shortfall** (where supply is not enough to meet the domestic demand of the particular hydrocarbon)

**Services**

1. **Engaging Process Licensors:** Supply of License, basic design and engineering package and assistive services for new Refinery & Petrochemical Units, Bio Refineries and revamp projects (Licensor tenders for a) IOCL Bhadrak Textile Park Project including PMC services, b) Needle Coke Calcination Unit at Paradip, c) LuPech Project at Gujarat Refinery)

2. **Specialized Consultancy services:** Refineries / Bio Refineries, CNG, due diligence and evaluation of overseas acquisition - legal, financial, taxation, technical etc.

3. Database subscriptions, Market Intelligence Tools, specialized services related to upstream services of E&P including Training from foreign firms.

4. Specialized Technical Services and Training Subscriptions
5. Specialized Software Services and their AMC (including for upstream E&P Industries like G&G services, Reservoir Simulation, Estimation, Modelling, software for R&D purpose, Asset Integrity Management, Process Simulation)
6. Benchmarking Study (for Risk and Refinery benchmarking)
7. Umpiring / Assaying services for chemicals and catalysts (Agency for platinum/palladium umpire analysis, silver analysis, Loss on Ignition (%) and Platinum content (%) testing).
8. ASTM Proficiency Testing for Labs
9. Scale up study for FCC Stripper Packing, HiY FCC additive, Zeolite 13X adsorbent,
10. Pipeline Intrusion detection warning system (PIDWS)
11. SPM Services: (Repair and Maintenance of Hydraulic Unit, Telemetry Unit, Maintenance Work)
12. Consultancy for Offshore Pipeline
13. Refurbishment of PLIDCO Flange Repair Ring
14. Overhauling of siemens make 501 KB5 & 501 KC 5 Gas Generators
15. Integrity assessment of non-piggable pipelines through contactless magneto metric technologies
16. Chartering of ships (There are Indian Shipping lines available, but these are insufficient to meet the domestic demand. However in any case Indian vendor has the option to match foreign L1)

   i. Voyage Charter, Contract of Affreightment (COA) and Time Charter of vessels for import of (a) Crude oil, (b)LPG & (c) LNG
   ii. Voyage Charter for product vessels
List of items related to Upstream sector

Materials/ Equipments

1. **Tubulars:** All Type Of Casing With Premium Thread & Crossovers Including 13 Chrome & CRA Casing (Except 7", P-110 Grade and 9 5/8", L-80/P-110), Drill Pipe, Heavy Weight Drill Pipe, All Type of Tubing With Premium Joint & Crossovers, Drill Collars.

2. **Cementing Equipment / Chemical:** Cement Additives, Cement Retainers For HPHT Operations (All Sizes), Cement Support Tool (All Sizes), Cementing Unit, Special Oil Well Cement For HPHT Well (Dykerhoff Cement), Expandable Liner Hangers (All Sizes), External Casing Packers (All Sizes), Hydraulic Stage Collar (Cementing) of High Grade For Above 300F, Microfine Cement, Subsea Cementing Plugs (All Sizes) with Cementing Head For Floater RigsCement Test Equipment viz., HTHP-Curing Chamber, HTHP-Consistometer, Waring Blender-Constant Speed Mixer, Static Gel Strength Analyzer and Wettability Tester.


4. **Fire Fighting Equipments:** Fire Proximity Suit, Aqueous Foam Forming 6% Concentration.


7. **Instruments & Guages:** Borescope Unit - TG/PGC, Weight Indicator, EMR Gauges, Thermocouple for Downhole Temperature, Cold Finger Apparatus, Ageing Cell, Automatic Imbibiometer.

8. **Mud Chemicals/ Items:** Potassium Chloride (KCL)-Mud, Potassium Formate, Hollow Glass Sphere (Gr-I& HGS4K28), Rheometer/ Viscometer.

9. **Offshore Equipment:** Anchor, Mooring Chains & Hardware, Sub-Sea Bop Control Hose Bundle, Buoyancy Module Risers, Life Buoy With Life Buoy Light & Life Line, Marine Riser System & Handling Tools, Personnel Transfer Net/ Basket, Reverse Osmosis Water Maker for Offshore Use, Subsurface Safety Valves and Control Lines along with Accessories, Unit Coolers for Offshore, Ultra Centrifuge with High Speed, Gas Turbines.

10. **Oil and Gas Industry Pumps:** Pumps for Offshore 60 Hz, Plunger Lift System, Sub Surface Pump API 11AX API 25-150RHAM 16-4-4, API 20-175THM 16-4-4, API 25-225THM16-4-4, Condensate Pump.

11. **Production Equipment:** API Filtration Loss Apparatus/HPHT Fluid Loss Apparatus, Coil Tubing Down Hole, Equipment & Tools & Redress Kit, ERD& PBR
Packers, Flame Arrestor and Burner Assembly, Portable Ignitor Assembly, RHSB Burner Pilot Nozzle, Invalco, Sand Bailer (Turbo Bailer), SRP & its Accessories, PCP & its Accessories, Tubing Retrieveable Surface Controlled Subsurface Safety Valve (2 7/8", 10000 Psi), Vertical Tension Anode (VTA) – Impressed Current Cathodic Protection (ICCP) System, Sub Surface Safety Valve & Control Unit Along Accessories, Dual Hydraulic Packer, Coll Tubing Reel, Tubing Handling Tools, Telescopic Joint, Wire Line GLV.

12. Well Head, X-Mas Tree and BOPs: High Pressure Well Head And X-Mas Trees, Blow Out Preventer (Drilling, Production) – 15m, Choke & Kill Line, High Pressure Hoses & Rotary Hoses, Drilling Hose, Marine Hose, Subsea Hose, IBOPs, FOSV, Upper & Lower Kelly Cock, Kelly All Sizes Subsea Wellhead & X-Mas Tree, Electronic Well Head Manometer Subsea Valves, Wellhead Shutdown Panels - Pneumatic Control, Sub-Sea Valve Control Fluid, Hydraulically Operated Gate Valves / HCR Valves.


Services/ Specialised Services


2. Drilling Services – Specialised: Casing Drive System & Services, Casing While Drilling Services, Direction Drilling, Services (RSS, MWD,LWD,MPWD,SRDH & GWD), Liner While Drilling Services, Multiple Activation Circulation Bypass Tool & Services, Real Time Data Monitoring & Analytics Services, Turbine with Impregnated Bits & Services, Under Reamer Services Under-Balanced Drilling Services, Well Coring Services, Whipstock & Window Milling Services, Managed Pressurized Drilling Services, Hiring of Well Engineering & Completion Services for Drilling of Exploratory Wells and Completion of Development Wells in Deep Waters.

3. Logging Services: Hiring of Services related to Logging While Drilling (LWD).

4. Mud Chemical Services: Specialized Loss Circulation Control Services with Materials, Specialized System LCM Services with Materials, LTSoBM Services along with material for Eastern Offshore, HTHP Testing Fluid Services along with Material (Calcium Bromide + Tri Manganese Tetra Oxide), HTHP Testing Fluid Services along with Material (Potassium Formate +Tri Manganese Tetra Oxide).