**ANNEX A**

**TECHINICAL SPECIFICATIONS**

**Invitation to Bid No: ITB/SC/NIGMA/2023/003**

**Provision and Delivery of Fuel in Borno, Adamawa States**

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| No# | **Item** | **MINIMUM ACCEPTABLE SPECIFICATIONS** | **UNHCR MINIMUM STANDARD OF PRODUCT REQUIRED** |
| 1 | **Diesel (A.G.O)** | **DIESEL (AGO)**  **CHARACTERISTICS LIMITS**   * Specific gravity (@ 60/60°F) 0.820(min.) * Distillation * Recovery (@35°C%wt) 90(min.) * FBP (OC) 385 (max.) * Colour 3(max.) * Flash point (oF) 150 (min.) * Total sulphur (%wt) 0.5 (max.) * Copper corrosion (3hr @ 100°C) No.1 strip (max,) * Kinematic viscosity (@100°Fcst) 1.6-5.5 * Cloud point (oF) 40(max) * Carbon residue (Conradson on 10% residue) %wt 0.15(max) * Strong acid number (mg. KOH/g) Nil * Tobal acid number (mg. KOH/g) 0.5 (max) * Ash content (%wt) 0.01 (max.) * Water by distillation (%Vol.) 0.05 (max)   - Water by extraction (%wt) 0.01 (max.)  - Diesel index 47 (min) | Flash point (oF)150(Max)  (min.) 95(oF)  Diesel (2) >52 °C (126 °F) |
| 2 | **Petrol (P.M.S)** | **GASOLINE (PMS) (UNLEADED)**  **CHARACTERISTICS LIMITS**   * Specific gravity 60°/60 F 0.757-0,77 max * Distillation range ( oC) 35-205 * 10% evaporated (OC) 70 max. * 50% evaporated 125 max * 100% evaporated (OC) 180 max. * FBP evaporated (OC) 205 max. * Residue % Vol. 2 max * Odour Merchantable * Colour Orange * Total sulphur No,1 strip max. * Copper corrosion No.1 strip max * Vapour/liquid * Ratio: T36°C 68 max. * Existent gum (mg/100ml) 4 max, * Oxidation stability (min.) 360 min. * Knock rating (RON) 90 min. * RVP (Vapour pressure) (psi) 90 max. | (min.) Flash Point  Gasoline (petrol) −43 °C (−45 °F) |

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| Required Quality | As specified in Annex A |
| Delivery time | Recurrently |
| QUALITY OF PRODUCT/UNIT COST DURATION | |
| As specified in Annex A | Minimum of (6) Months |
| **DELIVERY TERMS** | |
| Applicable INCOTERMS: | DAP |
| Supply/Delivery Point: | **UNHCR Office, UNHCR Guest House, UNHCR Warehouse generators and UNHCR Vehicles in Borno State**  **UNHCR FO Offices Generators and Vehicles in Adamawa** |

**General requirements:**

Bidder are allowed to notify UNHCR of any addition product standard specification if the product standard specified in Annex A is not sufficient or deviate from the approved and acceptable standard required in Nigeria Petroleum Corporation.