



**JORDAN PETROLEUM REFINERY
CO. LTD.**

شركة مصفاة البترول الأردنية المساهمة المحدودة

BID NO.154/2025

مناقصة رقم: 2025/154

**Calibration And Maintenance of
Equipment's Laboratory**

معايرة وصيانة أجهزة فحص الاوكتان عدد (2)
وفحص السيستان عدد (1) وأجهزة شركة PAC
عدد (18) جهاز

الفهرس

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دعوة المناقصة

BID INVITATION

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JORDAN PETROLEUM REFINERY CO. LTD	
BID No. 154/2025 – OR 25011084- OQ 25010621 Calibration And Maintenance of Equipment's Laboratory	

BID TERMS

- The following Instructions and General Conditions are integral part of the invitation, and have the power of the purchase contract.
- The listed conditions hereunder are binding for the tenderers, unless otherwise is stated in the documents
- **Offers (technical & commercial)** shall be submitted in triplicate, in **English language** , including the following details, before the **CLOSING DATE on Thursday 12/2/2026** , at 15.00PM (Jordan Local Time).
- **Identifications:**
 - **The Company:** Jordan Petroleum Refinery Co. Ltd
 - **The Manager:** Chief Executive Officer.
 - **The Contractor:** The successful Tenderer/Supplier/ Manufacturer.
 - **The Tenderer:** The participant in BID (Company Owner).
- **Offers shall include the following:**
 - A. Printed price and clearly written in figures and capital letters. (**Currency** shall be stated in words not in abbreviations).
 - B. Valid for (~~60~~) days, at least, from closing date, unless otherwise stated, and also fixed during the completion period.
 - C. Full Address for Consultant Company
 - Pricing Structure:**
 - Daily rates (man-day pricing) for each expert who will participate in the project.
 - Any additional costs, including travel, accommodation, or equipment, broken down into separate line items.
 - D.
 - E. Total Estimated Costs: A clear breakdown of the total estimated costs for completing the requested services based on the proposed timeline.

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- F. **Duration:** The WORK shall commence on [Start Date] and shall remain in effect until [End Date], unless terminated earlier
- G. **Payment Terms:** Payment shall be made within 30 DAYS of receipt of a valid invoice by the time sheet approved by our engineers & subject to satisfactory completion of the services.
- H. **Expert nationality**

ADDITIONAL CONDITIONS

- (6) per one thousand of Contract value shall be paid to cover revenue stamps according to prevailing Jordanian law. The total sum shall be deducted from the purchase order.
- After awarding any change in the offered specifications shall not be acceptable.
- Performance guarantee (bank guarantee) equal (10%) of the total amount through a local Jordanian bank. This guarantee must be valid for period of not less than **one month after completion of the services**
Copy of bank guarantee text is herewith attached.
- Return copy of purchase order, which considered as a formal contract signed & stamped by an authorized person (beneficiary) within (48 hours).
- As the contract is a Jordanian one, any dispute arising between COMPANY and the Contractor on the interpretation or execution of the contract, which can't be solved amicably, shall be governed by and construed in accordance with Jordanian laws, and shall be referred to arbitration. Arbitration shall be conducted in Arabic, or English translated into Arabic. The venue of arbitration shall be in Amman – Jordan.
- The COMPANY in cashing the guarantees shall not be deemed to have waived any of its rights under the Contract. For BID performance purpose, the local agent and the Contractor are jointly and severally responsible. The COMPANY has the right to claim its rights legally against each, or both of them, in case they do not comply with any of the BID conditions.
- Any additional charges as Taxes, VAT in your country shall be borne by the contractor.
- Delivery delay liquidated damages: in the event that the Supplier failed to complete the services within the specified period, the sum of JOD (20) per day or any part thereof shall be paid by the supplier to COMPANY. (Not exceeding 5 % of contract value).



IMPORTANT NOTS:

1. Offers shall be submitted in two separated, closed and sealed envelopes (One original and two copies) indicating clearly contents of each envelope as follows:
 - The 1st envelope shall include the technical offer.
 - The 2nd envelope shall include the commercial offer.
2. Name and address of contractor is to be printed on closed and sealed envelope in addition to BID number and closing date.
3. Any questions regarding the BID shall be addressed in writing to:
Email: TENDER.INQUIRIES@JOPETROL.COM.JO
4. The offers must be signed and stamped by the contractor.

Sgt

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ANNEX

- Offers must be submitted in sealed envelopes on or before the closing date on Thursday 12/2/2026 not later than 15.00 PM (Jordan Local Time). Offers were received after that time will be disregarded.
- Local agents must submit with their offer a valid copy of their registration certificate in the Ministry of Industrial & Commerce as well as their registration certificate in Great Amman Municipality.
- Enclosed herewith a form (Supplier & Local Agent Information) to be filled accurately and accordingly, as it is an integral part of BID conditions.
- JPRC is entitled to cancel the BID or to postpone the opening of bids, to whichever date it deems adequate.
- Please abide strictly with the required conditions and specifications

- يجب تسليم العروض بالظرف المختوم قبل الساعة الثالثة من يوم الخميس الموافق 2026/2/12 ولن يقبل أي عرض بعد الموعد المذكور.
- على الوكلاء والوسطاء التجاريين أن يرفقوا مع العرض نسخة صالحة من سجلهم التجاري ورخص المهن صادرة من وزارة الصناعة والتجارة وأمانة عمان الكبرى.
- مرفق نموذج (معلومات عن المورد والوكيل) لتعبئته وإرفاقه مع العرض وبغير ذلك سوف يتم تجاهل العرض.
- يحق لشركة JPRC إلغاء المناقصة أو تأجيل فتح صندوق المناقصات إلى أي وقت تراه مناسباً.
- راحين الالتزام بالشروط والمواصفات العامة المطلوبة.

SUPPLIER & LOCAL AGENT INFORMATION

BID no. 154/2025

المعلومات المطلوبة	المورد Supplier	الوكيل المحلي Local Agent
الاسم التجاري Commercial Name		
أسماء مالكي الشركة Owner name		
اسم مدير الشركة Director /Manager Name		
هاتف Tel. No:		
فاكس Fax no:		
هاتف خلوي Mobile:		
رخص مهنة Profession License Certificate		
سجل تجاري Trading Registration Certificate		
رأس مال الشركة Company Capital		
البنك Reference Bank		
مجموع الإيرادات السنوية Turnover		
مجموع حقوق المالكين Owners Equity		

- STANDARD SPECIFICATIONS

- المواصفة القياسية

Jordan Petroleum Refinery Company
Quote Order

Order Number 25010621 OQ 00001
Branch/Plant F511102
Order Date 14/12/2025 Request Date 14/12/2025
Freight Handling

Delivery Instructions

Introduction

Jordan Petroleum Refinery Company (JPRC) is dedicated to maintaining the highest standards of accuracy, reliability, and compliance in its laboratory operations.

To support this commitment, the company requires comprehensive maintenance and calibration services for its critical testing equipment. These services are vital to ensure optimal performance, extend the lifespan of the equipment, and maintain compliance with international standards, including ISO 17025.

The equipment requiring maintenance and calibration is categorised into two groups.

Line	Item Number	Description	Ordered Quantity	Unit	Supplier Offer Unit Price	Supplier Offer Currency Code	Original Order No	Orig Type	Line No
1		Cetane and Octane Calibration	1.000	EA			25011084	OR	1

Perform full maintenance and calibration for the Cetane and Octane engines, compliance with ASTM D613 and ASTM D2699 standards.

- Equipment Description:

- CFR-5 Cetane Engine – S/N: FAS 008724 – Running hours: 250 h (ASTM D613)
- CFR-1 Octane Engine – S/N: FAS 008710 – Running hours: 1,350 h (ASTM D2699)
- CFR-1 Octane Engine – S/N: 5283700360 – Running hours: 430 h (ASTM D2699)

- Maintenance Activities:

Maintenance to be performed as per original equipment manufacturers (OEMs) recommendations and shall include a full top overhaul and crankcase inspection in accordance with ASTM D2699 Section X4 for octane engines and ASTM D613 for the cetane engine, including:

- 1- Disassembly of piston and cylinder.
- 2- Cleaning and inspection of valves, rings, crankshaft and crankcase.
- 3- Replacement of piston rings and worn pistons.
- 4- Cleaning of combustion chamber and coolant passages.
- 5- Reassembly and adjustment following OEM tolerances.
- 6- Replacement of all applicable consumables (filters, spark plugs, lubricants, etc.)

Jordan Petroleum Refinery Company
Quote Order

Order Number 25010621 OQ 00001

Line	Item Number	Description	Ordered Quantity	Unit	Supplier Offer Price	Supplier Offer Currency Code	Original Order No	Orig Type	Line No
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- Calibration & Verification:

Calibration shall be carried out using certified reference fuels and in accordance with ASTM D2699 calibration procedure (section 8.1, section 10.2 and section 10.3) for octane engines and ASTM 613 calibration guideline (section 8.1, section 10.2 and section 10.3)- for cetane engine.

The following systems and parameters shall be verified and adjusted:

- 1- Cylinder jacket coolant
- 2- Engine speed.
- 3- Valve timing.
- 4- Valve lift.
- 5- Fuel pump timing.
- 6- Fuel pump inlet pressure.
- 7- Oil pressure and temperature.
- 8- Injection timing.
- 9- Basic injection delay.
- 10- Air/ fuel ratio.

2	PAC Equipments Calibration	1.000	EA	25011084	OR	2
Perform full maintenance and calibration for 18 testing equipment units (as per the attached list). ensuring fully compliance with all relevant ASTM standards.						

- Requirements:

The service provider shall provide the following:

- 1- A detailed list of required spare parts, consumables, and reference materials prior to work commencement.
- 2- An estimated schedule outlining the duration for assessment, maintenance, and calibration.
- 3- A comprehensive Maintenance Report documenting all actions taken, findings, and corrective measures.
- 4- ISO 17025-compliant Calibration Certificates for each calibrated instrument.
- 5- Recommendations for future maintenance and parts replacement to ensure ongoing performance.
- 6- All services must be performed by qualified, trained, and certified engineers authorized by the original

Jordan Petroleum Refinery Company
Quote Order

Order Number 25010621 00001

Line	Item Number	Description	Ordered Quantity	Unit	Supplier Offer Unit Price	Supplier Offer Currency Code	Original Order No	Orig Type Line No
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- equipment manufacturers (OEMs), and the service provider shall submit evidence of qualification, training, and certification prior to commencing of the work.
- 7- All calibration instruments must have valid calibration certificates traceable to internationally recognized standards.
 - 8- All work must comply with OEM specifications, ASTM/IP standards, and ISO 17025 requirements.
 - 9- Any deviations or abnormalities observed during maintenance or calibration shall be reported immediately, along with proposed corrective actions and an evaluation of potential impact.
 - 10- Partial Award Is Acceptable.

- Price and Terms
The quoted price shall be comprehensive, covering all travel, accommodation, manpower, and related expenses necessary for performing the services described herein.

Purchasing Manager :

Remarks of Purchasing Department :

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Maintenance & Calibration of PAC ApparatusApparatus list

No.	Instrument	Model /SN	Operating condition	
			In operation	Technical Problem
1	Jet fuel Thermal Oxidation Tester	JFTOT 230 Mark III/842-0744	✓	
2	Automatic Distillation	OptiDist/00374	x	Need Maintenance: Exchanger Temperature
3	Automatic Distillation	OptiDist/00375	✓	
4	Automatic Distillation	OptiDist/00376	✓	
5	Automatic Distillation	OptiDist/00380	✓	Need Maintenance: Touch Screen is not working properly
6	Freezing point Analyzer	FZP SG2s/1382	✓	
7	Automatic Viscometer	HVM 472/74720254	✓	
8	Automatic Viscometer	HVM 472/144720904	✓	
9	Automatic Viscometer	HVU 482/64820075	✓	Need Maintenance: Sa. Press up right/Lift
10	Salt content Analyzer	SC-960/79600547	✓	
11	Micro Carbon Residue Tester	MCRT-160	✓	
12	Cold filter Plugging Point Analyzer	FPP-5GS/1038	✓	
13	Cold filter Plugging Point Analyzer	FPP-5GS/3496	✓	
14	Vapor Pressure	HVP 972/069720092	✓	
15	Vapor Pressure	HVP 972/069720095	X	Need Maintenance: Temperature of the test cell doesn't reach to the 20°C (the system is heating instead of cooling).
16	Reformulyzer M3	7890A/CN10735204	✓	
17	FAME Analyzer	7890B/P332003	✓	
18	AC analytical control (SeNse) Sulfur Components in LPG	7890B/1727317	✓	

Compliance Sheet

Maintenance and Calibration Services for Cetane, Octane, and PAC Laboratory Equipment

(Each point must be confirmed/commented upon and must be submitted along with the bid)

-	Requirement	Vendor's confirmation/ acceptance/ comments to be mentioned for each item
A.	COMMERCIAL	
1	Company Name	
1.1	Full Address	
2	Offer no.	
3	Offer Validity	
4	Total Cost	
5	Currency	
6	Tax	
7	Payment Terms	
B.	TECHNICAL:	
8	Perform full maintenance and calibration for the Cetane and Octane engines, compliance with ASTM D613 and ASTM D2699 standards.	
9	Perform full maintenance and calibration for 18 testing equipment units. ensuring fully compliance with all relevant ASTM standards.	
10	A detailed list of required spare parts, consumables, and reference materials prior to work commencement	
11	A comprehensive Maintenance Report documenting all actions taken, findings, and corrective measures.	
12	ISO 17025-compliant Calibration Certificates for each calibrated instrument.	
13	All services must be performed by qualified, trained, and certified engineers authorized by the original equipment manufacturers (OEMs), and the service provider shall submit evidence of qualification, training, and certification prior to commencing of the work.	
14	All calibration instruments must have valid calibration certificates traceable to internationally recognized standards.	
15	All work must comply with OEM specifications, ASTM/IP standards, and ISO 17025 requirements.	

Laboratory Testing Equipment - Technical Data & Description

#	Laboratory Testing Equipment	Instrument Model	Serial No.	Manufacturer	Test Method	Purchasing year	Description
1	Jet fuel Thermal Oxidation Tester (JFTOT)	230 Mark III	842-0744	Alcor - PAC	ASTM D3241	2007	The Jet Fuel Thermal Oxidation Tester (JFTOT) is used to evaluate the tendency of turbine fuels to form and deposit decomposition products within the fuel system by simulating actual operating conditions found in turbine engines. The instrument pumps approximately 450 mL of test fuel at a constant volumetric flow rate through a precisely temperature-controlled heater tube, where the fuel is exposed to high temperatures for about 2.5 hours. After heating, the fuel passes through a stainless-steel precision filter with a nominal porosity of 17 micrometers, which captures any degradation products or deposits formed. The device measures both the amount of deposits on the heater tube and the rate of filter plugging, providing an assessment of the fuel's thermal stability and performance under realistic turbine operating conditions.
2	Automatic Distillation	OptiDist	374	PAC	ASTM D86	2007	Atmospheric Distillation Apparatus is used to determine the boiling range characteristics of petroleum products (light and middle distillates). The instrument operates under ambient atmospheric pressure and separates the components of a fuel sample based on their boiling points using a laboratory batch distillation unit. A 100 mL sample is distilled under specified conditions determined by its properties—such as vapor pressure, expected initial or final boiling point, or both. During operation, the condenser temperature and distillation rate are carefully controlled to achieve approximately one theoretical plate fractionation. The apparatus records vapor temperatures and condensate volumes throughout the distillation, as well as residue volume and losses at the end of the process. The measured temperatures can be corrected for barometric pressure, and results are typically expressed as percent evaporated or recovered versus temperature, either in tabular or graphical form (distillation curve). Distillation data provide valuable information about the volatility characteristics of petroleum products, which are critical for evaluating fuel performance, storage stability, and safety.
3	Automatic Distillation	OptiDist	375				
4	Automatic Distillation	OptiDist	376				
5	Automatic Distillation	OptiDist	380				
6	Freezing point Analyzer	FZP SC2s	1382	ISL - PAC	ASTM D7153	2007	Freezing Point Apparatus is used to determine the temperature at which solid hydrocarbon crystals begin to form in aviation turbine fuels. The instrument employs a laser-based optical detection system to monitor crystal formation and disappearance while the sample is cooled and reheated within a temperature range of -80 °C to 20 °C. It provides a precise and automated measurement of the freezing point to the nearest 0.1 °C, minimizing operator influence. The device is widely used in aviation fuel quality control and petroleum blending operations to ensure that the fuel's freezing point remains below the minimum operational temperature of the aircraft.
7	Automatic Viscometer	HVM 472	74720254	Herzog - PAC	ASTM D445	2005	Kinematic Viscometer is used to determine the kinematic of transparent and opaque petroleum products by measuring the time required for a fixed volume of liquid to flow under gravity through a calibrated glass capillary viscometer at a precisely controlled temperature. This instrument provides accurate data essential for evaluating flow characteristics, lubrication performance, and fuel handling properties.
8	Automatic Viscometer	HVM 472	144720904			2014	
9	Automatic Viscometer	HVU 482	64820075			2007	
10	Salt content Analyzer	SC-960	79600547	Herzog - PAC	ASTM D3230	2006	Salt Analyzer is used to determine the approximate chloride (salt) concentration in crude oil, typically in the range of 3.5 to 500 mg/kg. The instrument measures the electrical conductivity of a homogenized crude oil sample dissolved in a mixed alcohol solvent when subjected to an electrical potential. Chloride concentration is obtained by referencing a calibration curve correlating current response with known chloride concentrations.
11	Micro Carbon Residue Tester	MCRF-160	1458-0731	Alcor - PAC	ASTM D4530	2007	Micro carbon residue tester is a precision instrument designed to determine the carbon-forming tendency of petroleum materials under controlled thermal conditions. The apparatus consists of a high-temperature furnace equipped with a vial holder that accommodates multiple glass vials simultaneously. Each vial is sealed within a chamber that maintains an inert nitrogen atmosphere to prevent oxidation during heating. The furnace provides uniform and programmable temperature control up to 500 °C, ensuring consistent thermal decomposition of the sample. A flow-controlled nitrogen system removes volatile decomposition products, while the remaining carbonaceous residue is measured to evaluate the sample's coke-forming tendency. The system allows testing of up to twelve samples at once, improving efficiency and reproducibility.
12	Cold Filter Plugging Point Analyzer	FPP-5GS	1038	ISL - PAC	ASTM D6371	2008	Cold Filter Plugging Point (CFPP) tester is a specialized instrument designed to determine the lowest temperature at which diesel or heating fuel can flow without plugging the filter. The apparatus includes a temperature-controlled cooling chamber, a standardized wire mesh filter, a pipet connected to a controlled vacuum source, and a sample test jar. During the test, the sample is cooled at a defined rate. At 1 °C intervals, the instrument automatically applies vacuum to draw the fuel through the filter. The CFPP is recorded as the temperature at which the fuel no longer flows through the filter within 60 seconds.
13	Cold Filter Plugging Point Analyzer	FPP-5GS	3496			2008	
14	Vapor Pressure	HVP 972	69720092	Herzog - PAC	EN 13016-1	2008	Air Saturated Vapor Pressure (ASVP) tester, also used to determine Dry Vapor Pressure Equivalent (DVPE), is a precision instrument designed to measure the total vapor pressure of volatile, low-viscosity petroleum products and ethanol blends. The apparatus consists of a thermostatically controlled vacuum chamber, capable of maintaining the sample at a stable test temperature (typically 37.8 °C). The chamber has an internal volume approximately five times that of the injected sample. A pressure sensor and indicator measure the resulting total pressure, which includes the vapor pressure of the sample and the partial pressure of dissolved air. The instrument allows for conversion of the measured pressure to a dry vapor pressure equivalent (DVPE) for standardized reporting. The system is designed to prevent contact with water, enabling testing of samples with or without oxygenates.
15	Vapor Pressure	HVP 972	69720095			2008	

Laboratory Testing Equipment - Technical Data & Description

#	Laboratory Testing Equipment	Instrument Model	Serial No.	Manufacturer	Test Method	Purchasing year	Description
16	Reformulyzer M3	7890A	CN10735204	AC-PAC	ASTM D6839	2007	Reformulyzer M3 is a multidimensional gas chromatography system designed for detailed hydrocarbon group-type analysis in gasoline and related fuels. It provides precise separation and quantification of paraffins, olefins, naphthenes, aromatics, and oxygenates. The system is fully computer-controlled, allowing automated valve switching and column routing for optimized sample processing. It employs a series of nonpolar and polar columns to sequentially separate hydrocarbon groups. An olefin hydrogenation catalyst is included to convert olefins to paraffins, simplifying group classification. Traps and pre-fractionation modules allow selective isolation of specific hydrocarbon fractions, enhancing analytical accuracy. The flame ionization detector (FID) records eluting compounds, generating quantitative chromatograms for mass and volume calculations. Integrated software manages data acquisition, peak integration, and reporting, and supports multiple analytical modes such as PONA and OPNA. The system complies with international standards like ASTM D6839 ensuring regulatory alignment.
17	FAME Analyzer	7890B	P332003	AC-PAC	IP 599	2014	The instrument used is a multi-dimensional Gas Chromatograph (GC) designed for the identification and quantification of Fatty Acid Methyl Esters (FAME) in aviation turbine fuel (AVTUR). It operates by separating the fuel sample through two capillary columns — a non-polar first dimension and a highly polar second dimension — using Deans switching and temperature-based refocusing (trapping) technology. Selected FAME components are transferred ("heart-cut") from the first to the second column for final separation and detection by a Flame Ionization Detector (FID). The system is equipped with one of the following inlets: Cool-On-Column (COC), Split/Splitless (SSL), or Programmable Temperature Vaporizer (PTV). Quantification is performed by comparing the detector response with an external standard prepared in FAME-free aviation fuel or another non-interfering solvent.
18	AC analytical control (SeNse) Sulfur Components in LPG	7890B	1727317	AC-PAC	UOP 791	2017	The UOP 791 analyzer is a Gas Chromatograph (GC) equipped with a Sulfur Chemiluminescence Detector (SCD), designed to determine trace levels of sulfur compounds in liquefied petroleum gases (LPG). It quantitatively measures individual sulfur species in the range of 0.1–200 mass ppm using a fused silica capillary column with a methyl silicone coating. The PAC AC SeNse SCD provides high sensitivity (0.3 pg S/sec), true equimolar response, wide linearity range, and excellent long-term stability, ensuring accurate and reliable sulfur analysis. The system operates with automated control and quantitation software.
19	Octane Number	CFR F-1	FAS 008710	Waukesha	ASTM D2699	2005	The octane rating engine (CFR F-1) is a standardized single-cylinder, four-stroke, variable compression ratio test engine used to determine the Research Octane Number (RON) of spark-ignition engine fuels according to ASTM D2699. The system includes a carbureted fuel supply, controlled air intake with regulated temperature and humidity, an electronic knock detection system, and a power-absorption motor for speed control. The engine measures fuel knock intensity by comparing it to reference fuels (PRF blends) to establish the RON value.
20	Octane Number	CFR F-1	5283700360	Waukesha		2007	
21	Cetane Number	CFR F-5	FAS 008724	Waukesha	ASTM D613	2005	The cetane rating engine, used in accordance with ASTM D613, is a single-cylinder, four-stroke, variable compression ratio, diesel test engine designed to determine the cetane number (CN) of diesel fuels. The method measures the ignition quality of the fuel by comparing its ignition delay with that of reference fuels of known cetane numbers. The engine operates under precisely controlled conditions of speed, intake air temperature, and fuel injection timing. The compression ratio is adjusted until the ignition delay of the sample fuel matches that of the reference fuels, and the corresponding cetane number is then determined.

- ATTACHMENTS

- الملحقَات

PERFORMANCE GUARANTEE

MESSRS : JORDAN PETROLEUM REFINERY CO. LTD
P.O.80X 1079
AMMAN-JORDAN

DEAR SIRS,

AT THE REQUEST OF MESSRS.....
(HEREINAFTER CALLED "THE ACCOUNTEE"), WE HEREBY ISSUE IN YOUR
FAVOUR OUR L/G NO. AS FOLLOWS:

WE..... BANK.....,AMMAN / JORDAN
IRREVOCABLY AND UNCONDITIONALLY HEREBY UNDERTAKE TO PAY YOU
WITHOUT DELAY ON YOUR FIRST WRITTEN DEMAND AND NOTWITHSTANDING
ANY OPPOSITION OR OBJECTION BY THE ACCOUNTEE WITHIN THE VALIDITY
OF THIS GUARANTEE, THE AMOUNT OF.....

.....
.....
IN RELATION TO TENDER NO.
FOR THE SUPPLY OF.....

THIS GUARANTEE SHALL REMAIN VALID UNTIL, AND
THE VALIDITY OF THIS GUARANTEE SHALL BE RNEWED AUTOMATICLLY AND
WILL NOT BE CANCALLED WITHOUT YOUR WRITTEN CONSENT (ON THE
ACOUNTEE OWIN EXPENSE)