Organization Name	Khyber Pakhtunkhwa Oil & Gas Company Limited (KPOGCL)				
Subject	Purchase of Gravity Meter, Magnetometer, Resistivity Meter & Required Softwares.				
Address	3rd floor Ali Tower, Opposite Custom House University Road Peshawar, Pakistan.				
City	Peshawar				
Tel No.	+92 91-9216695, +92 91-92166023, +92 333- 5380240, +92 300-5001038, +92 300-6286618,				
Fax No.	+92 91-9216697				
Tender No	KPOGCL/Tender/456/2017				
Procedure	Single Stage, Two Envelope.				
Terms & Conditions	 Quotations must be submitted in two separate envelopes clearly marked as technical and commercial offers. Both these envelopes must be enclosed in a brown envelope clearly marked on the top in bold as tender documents and below that tender number be written. Technical Offer must be without price and should contain all relevant essential specifications along with literatures / brochures. An affidavit on the stamp paper to be placed in the technical offer stating that a bid security amounting 2 percent without indicating the amount, has been placed in the financial offer. Otherwise the technical proposal will be considered non-responsive and will be returned to the bidder after being examined by the technical committee. 				
	3. Commercial Offer should indicate price of quoted Items and confirmation to the terms and conditions of our tender inquiry. Original bank draft for 2% bid security must be attached with commercial offer.				
	4. Ensure completion of Annex-A Performa, Bid to be submitted on same Bid Document .				
	5. The firm should be registered with Tax Department having income tax and sales tax certificates. The firm should be on Active Tax Payer List.				
	6. Quoted rates/price shall remain valid for a period of minimum 90				

Closing Time	15:00:00
Closing Date	18-05-2017
Advertisement Date	03-05-2017
	 18. In the event of maximum items being quoted lowest by a single bidder, the KPOGCL at its discretion may request the lowest bidder to match the rate for remaining items at a price quoted lowest by other bidders. 19. Technical specifications of tendered items are at Annex B
	17. The quantity of items may increase or decrease depending upon circumstances.
	16. If any fault / defect occurs in the Equipment during the Warranty Period, it will be repaired/ replaced by the Supplier at his own Risk and Cost satisfying KPOGCL.
	15. No Refurbished items will be accepted, if such practice is observed the Bid Security will be forfeited and action will be taken against such firm as per KPPRA Rule 44(1).
	14. Supplier must be authorized dealer of the concerned brand, must provide the warranty as given by the manufacturer.
	13. All terms and conditions by the supplier must be specified clearly.
	12. Payment and acceptance of tendered items will be made after inspection in the premises of HQ,KPOGCL.
	c) Overwriting /Erasing in prices.
	b) Offers are found conditional or incomplete in any respect.
	a) There is any deviation from any instruction.
	11. Offers are liable to be rejected if: -
	10. Government taxes will be deducted at the time of payment as per Government prescribed rates.
	9. KPOGCL reserves the right to cancel or reject all bids/ proposals at any time prior to its acceptance, as per KPPRA Rule 47 (1).
	8. The quotations must be in original and are to reach at KPOGCL Head Office by 1500 hours on 18-May-2017 . No quotation will be accepted in photocopy, through Fax or e-mail and after due date and time.
	7. Item(s) are required within minimum possible delivery period. Offer with minimum delivery period are likely to be preferred. However, the delivery period should be factual as no extension will be subsequently granted except under extreme / un-avoidable circumstances.
	days.

Opening Date	18-05-2017	
Opening Time	5:30:00	
Bid Security		
Document Cost	Free to download from KPOGCL website.	
Remarks	For any questions, please send email to: muhammad.Ikram@kpogcl.com.pk	

TECHNICAL EVALUATION CRITERIA

ELIGIBILITY MARKS: A bidder not meeting 70% pass marks limit will be rejected in Technical Evaluation, and its sealed/unopened Financial Proposal shall be returned back. All bidders scoring greater than or equal to 70% of the marks will be accepted in technical proposal, and their financial bids will be opened. 30% marks of Financial bid will be given to lowest prices quoted bidder and other's shall be rated accordingly.

The Bidders who have duly complied with the Eligibility/Qualification and Evaluation Criteria against all items will be eligible for further processing.

The Bids which do not conform to the Technical Specifications as mentioned in Annexure B or Bid conditions and the Bidders without adequate capabilities for supply and warranty will be rejected. The Eligible/Technically Qualified Bidders will be considered for further evaluation.

The Technical proposals shall be evaluated by the committee in the light of following evaluation criteria categorized as under:

TECHNICAL EVALUATION CRITERIA

Category	Description	Points
	Certificate of Company/Firm	10
	Registration/Incorporation	
	under the laws of Pakistan	
Legal Requirement		
	Valid Income Tax Registration	10
	Valid General Sales Tax Registration (Status =	10
	Active with FBR)	
	Submission of undertaking on legal valid and attested	10
	stamp paper that the firm is not blacklisted by any of	
	Provincial or Federal Government Department,	
	Agency, Organization or autonomous body or Private	
	Sector Organization anywhere in Pakistan.	
	Compliance to the technical specifications of	60
	hardware (all	
	items) to be procured mentioned vide Annex-B of this	
	document, in full compliance of the Execution Schedule and	

Delivery Period mentioned in tender document (Undertaking of same on legal stamp paper is must)	

FINANCIAL PROPOSAL EVALUATION

 Single stage – two envelope procedure as laid down in Khyber Pakhtunkhwa Public Procurement Rules 2014 (KPPRA) would be followed for the evaluation and final selection of the firm for the award of this Contract. The weights given to the Technical (T) and Financial (F) Proposals are:

T=70%

F=30%

- 2) The lowest priced Financial Proposal (Lp) will be given a financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as per the formula i.e. Sf = 100*Lp/Ep, in which Sf is the financial score, Lp is the lowest proposal and Ep the Evaluated proposal under consideration.
- The Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T & F) in the formula i.e. S=St*70%+Sf*30%.

ANNEX-A

Serial No	ltem	Quantity	Amount/ Unit	Total amount	WHT*	GST**	Other taxes	Price
٦	Total							

*In case of WHT Exemption, provide certificate or Government SRO, as the case may be.

** In case of GST Exemption/percentage differentiation, Provide Certificate or Government SRO, as the case may be.

Please specify details of other taxes if applicable.

ANNEX-B

1. Gravity Meter: (Req: 2 Sets)

A Gravity Meter is an instrument used for measuring the local gravitational field of the Earth. The instrument is used for the measurement of the constant downward acceleration of gravity, which normally varies by about 0.5% over the surface of the Earth. As to minimize the risks of failure advanced Gravity meters are required to be used with latest software's used in the modern day industry. Gravity meters are used for petroleum and mineral prospecting, seismology, geodesy, geophysical surveys and other geophysical research.

Gravity Meter "CG-5/Equivalent/Latest		
SPECIFICATIONS''		
Sensor Type:	Fused Quartz using electrostatic nulling	
Reading Resolution:	1 microGal	
Standard Field Repeatability:	<5 microGal	
Operating Range:	8,000 mGal without resetting	
Residual Long-Term Drift:	Less than 0.02 mGal/day (static)	
Range of Automatic Tilt Compensation:	±200 arc sec	
Tares:	Typically less than 5 microGals for shocks up to 20 G	
Automated Corrections:	Tide, Instrument Tilt, Temperature, Noisy Sample, Seismic Noise Filter	
Dimensions:	30 cm (H) x 22 cm x 21 cm	
	12 in (H) x 8.5 x 8 in	
Weight (including batteries:	8 kg (17.5 lbs)	
Battery Capacity:	2 x 6Ah (10.8V) rechargeable Lithium-Ion Smart Batteries. Full day operation in normal survey conditions with two fully charged batteries	
Power Consumption:	4.5 Watts at 25°C	
Standard Operating Temperature Range:	-40° C to $+45^{\circ}$ C	
Ambient Temperature Coefficent:	0.2 microGal/°C (typical)	
Pressure Coefficient:	0.15 microGal/kPa (typical)	
Magnetic Field Coefficent:	1 microGal/Gauss (typical)	
Memory:	Flash Technology (data security)	

Digital Data Output:	RS-232C and USB interface is optimized for Win XP TM
Analog Data Output:	Strip-Chart Recorder
Display Screen:	¹ / ₄ VGA 320 x 240 pixels
Keypad:	27 key alpha/numeric
Standard System:	CG-5 Console, Tripod base, 2 rechargeable batteries, Battery Charger 110/240V, External Power 110/240 V, RS-232 and USB Cables, Carrying Bag, Data dump and utilities software, Operating Manual (CD), Transit Case

2. Magnetometer: (Req: 2-4 Sets)

Magnetometer is an instrument used in the industry for the measurement of the magnetic field of the Earth. By the measurement of the magnetic field of the area the material lying under the surface of the Earth can easily be predicted. This will greatly enhance the studies and research carried out for the exploration of the hydrocarbons.

G-857 Magnetometer/Equivalent/Latest:

The newly re-engineered G-857 provides a reliable, low cost solution for a variety of magnetic search and mapping applications. Single key stroke operation means the G-857 can be operated by non-technical field personnel or used in teaching environments. The G-857 uses the well-established proton precession method, allowing accurate measurements to be made with virtually no dependence upon variables such as sensor orientation, temperature, or location. The unit provides a repeatable absolute total field magnetic reading, traceable to the National Institute of Standards and Technology. The unit offers new features such as GPS time synchronization, GPS positions and in-field navigation with a hand held Garmin GPS.

G-857/Equivalent/Latest Magnetometer Specifications		
Resolution:	0.1 nT	
Accuracy :	Absolute 0.5 nT	
Clock:	Julian date, accuracy 5 sec per month.	
Tuning:	Auto or manual, range 20,000 to 90,000 nT	
Gradient Tolerance:	1000 nT/meter	
Cycle time:	1.6 sec to 999 sec standard	
Read:	Manual, or auto cycle for base station use.	

Memory:	65,000 field or base station readings	
Display:	Six digit display of field/time, three digit auxiliary display of line number, day	
Digital Output:	RS-232, switch selectable to 115200 baud.	
Input:	Will accept external cycle command.	
Physical Console:	$7 \times 10.5 \times 3.5$ inches, $(18 \times 27 \times 9 \text{ cm}) 6 \text{ lbs} (2.7 \text{ kg})$	
Sensor:	3.5×5 inches (9×13 cm) 4 lbs (1.8 kg	
Environmental:	Meets specifications within 0 to 40 C Will operate satisfactorily from -20 to 50 C	
Power:	12 Volt rechargeable Gel Cell	

3. **Resistivity Meter**: (Req: 2 Sets)

Resistivity meter is used for the measurement of Resistivity in the Earth. As every material has its own different Resistivity value so by the use of the Resistivity for the measurement of resistance the hidden material can easily be identified. They are widely used in the advance studies carried out for the exploration of natural resources lying under the surface of the Earth. The instrument can be widely applied in metal and non-metal mineral resources detection, city geophysical exploration, railway and bridge exploration, and other application. It is also applied in hydrologic geology and engineering geology such as searching for ground water, locate base of dam and flood protection levee incipient fault, can still use for geothermal prospecting.

WGMD Multi-electrode Resistivity Surveying System:

The instrument can be widely applied in metal and nonmetal mineral resources detection, city geophysical exploration, railway and bridge exploration, and other application. It is also applied in hydrologic geology and engineering geology such as searching for ground water, locate base of dam and flood protection levee incipient fault, can still use for geothermal prospecting.

WDJD-4/Equivalent/Latest Resistivity/IP Meter Specifications		
Receiving		
Voltage	± 6 V,±1 % ± 1LSB	
Measurement accuracy	if Vp≥10mV, ± 5‰ ± 1LSB; if Vp < 10mV, ±1% ± 1LSB;	

	if Vp≥10mV, ± 5‰ ± 1LSB; if Vp < 10mV, ±1% ± 1LSB	
Input impedance	≥50MΩ	
Measurement precision of apparent polarizability	± 1%± 1LSB	
SP compensation range	± 10V	
Current	6 A,±1% ± 1 LSB	
Measurement accuracy	if IP≥10mA, ± 5‰± 1LSB; if IP<10mA,± 1 %± 1LSB	
Suppression	over 90Db for 50Hz industrial frequency (common mode interference or differential mode interference)	
Transmitting		
Maximum transmitting power	±6600W	
Maximum voltage	±1100V	
Maximum current	±56A (when voltage ≤900V)	
Pulse width	1~60s, duty cycle is 1:1	
Others		
Working temperature	-10°C~+50°C (Environmental), 95 %RH	
Storage temperature	-20°C~+50°C (Environmental)	
Power supply	internal 12V 9Ah rechargeable battery , I asts for 30 hours (or 12V external power supply)	
Overall current	≤55mA	
Weight	≤4.5Kg	
Dimension (LxWxH)	270mmx246mmx175mm	
WDZJ-4 Switcher		
Max electrode connected	60 and 120 (for option)	
Insulation impedance	≥500MΩ	
Max working voltage	500VDC	
Max working current	2.5ADC	
Power supply	Internal 7.4V 4AH rechargeable lithium b attery, last for continuously 25 hours wor k	
Working temperature	-10°C~+50°C	

WORKSTATIONS

Sr.No.	Item Detail	Specification	Unit	Qty
1.	Workstation	Branded IBM/DELL/HP/Compaq or Equivalent/Latest	Each	2
	(Geosciences software Geographix)	Form Factor: Tower Processor: Intel (R) Xeon (R)/Equivalent/Latest (8-16 core, 3.3GHz/Higher/Latest)		
		Memory: RAM 32-64 GB DDR4-1600		

2.	Workstation (Geosciences Processing Software ProMax/Omega or Equivalent)	Internal Storage: 10-20 TB Graphics Card: Nvidia(R) Quadro(R) Latest version 4 GB Video RAM DVD: DVD RW Drive, USB Port: 6 LAN: Dual Port Gigabit Ethernet Monitor: 2x21 inch for each system Operating System: Windows® 7™ 64-bit with restore CD Peripherals: Keyboard, Optical Mouse, Required cables, connectors & accessories Warranty: 03 Years on site Branded IBM/DELL/HP/Compaq or Equivalent/Latest Form Factor: Tower Processor: Intel (R) Xeon (R)/Equivalent/Latest (32 -40 core, 3.3GHz/Higher/Latest) Memory: RAM 128-160 GB DDR4-1600 Internal Storage: 10-30 TB Graphics Card: Nvidia(R) Quadro(R) Latest version 4 GB Video RAM DVD: DVD RW Drive, USB Port: 6 LAN: Dual Port Gigabit Ethernet Monitor: 2x21 inch for each system Operating System: Linux 5.8 24-bit with restore CD Peripherals: Keyboard, Optical Mouse, Required cables, connectors & accessories Warranty: 03 Years on site	Each	2 or more
	(Geosciences software DSG)	Form Factor: Tower Processor: Intel (R) Xeon (R)/Equivalent/Latest (32 -40 core, 3.3GHz/Higher/Latest) Memory: RAM 128-160 GB DDR4-1600 Internal Storage: 10-30 TB		

		Graphics Card: Nvidia(R) Quadro(R) Latest version 4 GB Video RAM DVD: DVD RW Drive, USB Port: 6		
		LAN: Dual Port Gigabit Ethernet Monitor: 2x21 inch for each system		
		Peripherals: Keyboard, Optical Mouse, Required cables, connectors & accessories Warranty: 03 Years on site		
		Operating System: Red Hat Linux 5.8 24-bit Windows® 7™ 64-bit with restore CD		
4.	External HDD (Optional)	100 TB	Each	1

Software Requirement:

1. MESA[®]12 Equivalent/Latest:

Software required for 2D/3D seismic acquisition planning & designing. Main functionality of MESA includes:

 \rightarrow Survey design and subsoil coverage analysis for 3D acquisitions.

 \rightarrow Chronological monitoring of projects and production statistics of the Crews.

2.ProMax 2D & 3D Equivalent/Latest:

SeisSpace[®] ProMAX[®] Seismic Processing Software family helps get the most out of seismic data, increase productivity, reduce project cycle times and understand even the most difficult geologic targets.GLI/Geotomo/Equivalent for Refrection statics Software. PSTM from float datum Promax/Seispace/Equivalent

Computer Tables, Chairs and other logistics:

S. No	Materials (Description)	Quantity
1	Computer Tables (4 ft x 3 ft)	6
2	Revolving Chairs	12

UPS/Backup for Workstations:

UPS/Backup system for workstations which give back up time for at least one hour.

S. No	Materials (Description)	Quantity
1	INVEREX XP PRO 2600 1440-W UPS or Equivalent	6
2	Exide 240 AH wet Battery/Equivalent	6