

# PROVINCIAL ELECTRICITY AUTHORITY

## POWER SYSTEM STANDARD DIVISION

Specification No.: RTES-047/2554: PORTABLE OIL TESTER

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## C3 Schedule of detailed requirement

#### Invitation to Bid No.:

Item	PEA Material No.	Quantity	Description
1	16	set(s)	Portable oil tester, microprocessor controlled fully automatic, for testing
			dielectric strength of an insulating oil with automatic oil temperature measurement, with:
			Standard test methods : according to IEC 60156, VDE 0370-5
			ASTM D877 and ASTM D1816, or more
)			Display : built-in LCD colour display with backlight
			Test voltage : range of 0 to 100 kV r.m.s., or better
l			Rate of voltage rise and tolerance, according to standards:
		No. of Table	- IEC 60156 and VDE 0370-5 : 2 kV/sec ±0.2 kV/sec
			- ASTM D877 : 3 kV/sec ±5%
}			- ASTM D1816 : 0.5 kV/sec ±20%
			Voltage measurement:
1			- accuracy, throughout the range: ±(1% of full scale + 2 digits), or better
1		1	- resolution, the best : 0.1 kV, or better
			Temperature measurement:
1			- measurement range : 0°C to 70°C, or better
			temperature resolution . 1°C, or better
			Operating temperature : up to 45 °C
			Weight : not more than 40 kg
			Power supply : single-phase, 230 VAC, 50 Hz, non-
		1	5 7 114, 50 114, 104
1		07	polarized (line and neutral of power source can be switchable)
			Complete with:
	<u> </u>		Power supply cord and plug
			Test vessel(s)
			High-voltage electrodes according to specified standards    INCOMES   Property   Pr
		1	4. USB port(s) for interfacing with PC and/or printer
		1 11 14	5. Built-in printer with ten (10) rolls of paper
		Į.	6. Electrode spacing gauge set 1, 2, 2.5 and 2.54 mm, or more
	manufullium		7. PC software run in Microsoft Windows, comprising of useful function for
		7	importing data from the oil tester and generating report
}			8. Instruction manual for operation
			9. Other accessories according to manufacturer's design and auxiliary
	п		equipment necessary to complete the sound function



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### C3 Schedule of detailed requirement

Invitation to Bid No.:

Item	PEA Material No.	Quantity	Description Description
2	lues in the	lot(s)	Spare parts for Item 1
3	-	lot(s)	Optional accessories for Item 1
			Note:
			The bidder has to quote the unit costs.     The bidder has to quote spare parts and optional accessories (if any) wit
		ge Vaterally	a list of quantities and their itemized prices, if any; PEA reserves the right to purchase the spare parts and the optional accessories by some or all outems, to adjust their quantities, or to cancel them.
		your training and	<ol> <li>Evaluation and comparison of bid price shall not include the spare part and optional accessories.</li> </ol>
		one.	4. The bidder shall be sole distributor or authorized representative, have permanent office in Thailand and have at least two (2) years experience is sales and services products from the same manufactures of the same manu
		A CANADA STATE	sales and services products from the same manufacturer of the propose portable oil tester to government utilities; otherwise shall not be accepted.
		in market	5. The proposed portable oil tester shall have been purchased form utilities or companies outside the country of manufacturer for not less than two (2)
			<ul> <li>years. (give references)</li> <li>The bidder has to submit sufficient references describing the previous experience of the suppliers (e.g. list of supply of equipment and/or material)</li> </ul>
		ostina <u>i</u>	having the same of similar design as proposed, field experience, the registration of TISI, the copies of license, etc.) to the satisfaction of PEA.
		ange top	7. The hidders have to submit the Certificate of calibration and calibration test report of portable oil tester having same model as the proposed portable of tester from Accreditation Bodies (PTB, NPL, NtST, or equivalent) or from the laboratories, which have been accredited by such the Accreditation Bodies.
			<ol> <li>The contractor has to submit the Certificate of calibration and calibration test report from Accreditation Bodies (PTB, NPL, NIST, or equivalent) or</li> </ol>
			from the laboratories, which have been accredited by such the Accreditation Bodies.
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Specifi	ication No. RT	ES-047/2554:	PORTABLE OIL TESTER			Page 1 of 3	
	ce schedule ion to Bid No.			Manufacturer : Country of origin : Trade-mark :	Country of origin :		
Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)	
			Portable oil tester, microprocessor controlled-fully automatic, for dielectric strength of an insulating oil with automatic oil temperature of the measurement, with:  Standard test mothods  Display  Test voltage  Rate of voltage rise:  - IEC 60156 and VDE 0370-5  - ASTM D877  - ASTM D1816  Voltage measurement:  accuracy, throughout the range:  resolution, the best	/ c.m.s.			
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Specifi	cation No. RTE	S-047/2554 :	PORTABLE OIL TESTER					Page 2 of 3
	ce schedule ion to Bid No.	Thyrise.	gallete B)	a meser singappin	alar gages	Manufacturer: Country of origin: Trade-mark:	- 10. 10	
Item	PEA Material No.	Catalogue No.		Description		Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & condition attached)
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Specifi	eatlon No. RT	ES-047/2554:	PORTABLE OIL TESTER			Page 3 of 3
	ce schedule			Manufacturer: Country of origin: Trade-mark:		
Jtem	PEA Material Nu.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
3			Spare parts for item 1  1. 2. 3. 4.  Optional accessories for Item 1  1. 2. 3. 4. 4.	Iot(s)		
	n					