Malaviya National Institute of Technology Jaipur - 302017

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## Deepak Maheshwari Deputy Registrar

## **CORRIGENDUM**

The following amendments are hereby made to the Tender Enquiry No. **F5(1894)ST/MNIT/EE/2022** for Procurement of Three Phase Air Circuit Breaker ACB Trainer:-

S.No.	Item	Before Amendment	After Amendment
1.	Specifications	Three Phase Air Circuit Breaker	Three phase Air Circuit Breaker (ACB) Trainer
	•	(ACB) Trainer	To study the working principle of ACB and to test the
	(Clause 3.1)	To study the working principle of	ACB (Air circuit breaker) under over current fault
		ACB and to test the ACB (Air circuit	and Earth Fault conditions. This set up should consist
		breaker) under over current fault and	of
		Earth Fault conditions. This set up	1. Three phase ACB (Air Circuit Breaker)
		should consist of	2. ACB Test Kit with Panel set up
		1. Three phase ACB (Air	The Trainer should have following features
		Circuit Breaker)	<ul> <li>Requisite relay testing kit typically consisting of</li> </ul>
		2. ACB Test Kit with Panel set	voltage injector, current injector, elapsed time
		up	counter, trip logic etc. all mounted in a light weight
		Panel with ACB Test set up	sturdy aluminum profile flat demo panel system.
		(current injection source)	<ul> <li>Each panel with ABS molded plastic sturdy</li> </ul>
		This panel should consist of	enclosure, & colorful screw less overlays showing
		1. Meter with Relay	circuits diagrams & its connection tag numbers for
		(Numerical Type), Over	easy understanding & connection
		current, Earth Fault	<ul> <li>Set of Instructor Guide /Manual &amp; Student</li> </ul>
		2. Variable ac current source	Workbook
		with trip time indicator	Technical Specifications
		/meter	The Trainer should have Aluminum profile
		3. Earth Fault SIMULATOR: 3 p	sturdy Modular flat panel (table top) system,
		induction motor to simulate Ea	carrying various high voltage components
		Fault, Necessary Earth side CT	housed in plastic enclosures (panel) to minimize
		necessary terminals for Earth I	shock possibility
		simulation, Current limit resist	Control Power Supply & 1 Pn. AC
		adjust/limit the Earth Fault cur	Distribution Panel
		4. Digital meters, voltmeter	• $+12$ v, $-12$ v, $300$ mA
		and ammeter	• TJV, 500IIIA • Unregulated 17VDC/750mA
		5. Autotransformer to adjust	Variable voltage & current injector panel
		the current output.	• Consist of 1 phase dimmer 230VAC/1A
		6. Automatic trip time	• Short circuit transformer with primary
		Circuit) start rush huttor	230VAC/1A secondary 0-2-8V/12A taps
		stop push buttop	Over current & elansed time measurement
		7 Digital stop Clock to	nanel
		7. Digital stop Clock to	• Consists of AC ammeter of 20A
		8 ACB hushar input & output	Fuse & MCB Panel
		indicator	Zero Current Detector Panel
		9 Necessary CT With suitable	Earth Fault SIMULATOR: Simulate Earth Fault,
		rating	Necessary Earth side CT & all necessary terminals
		10. Breaker trip status indicator	for Earth Fault simulation, Current limit resistor to
		with manual on/off switch	adjust/limit the Earth Fault current
		11. All to be mounted on a nice	Air Circuit Breaker (ACB)- Table top
		cabinet with diagram stickered	• ACB 3ph, 440V, 3 pole, 50Hz, fixed type
		on front panel	• Rated current- 400A
		12. Mimic diagram to be printed	• Rated voltage- 415V

2.	Warranty	on panel front plate for easy understanding EXPERIMENTS 1. Testing of ACB under Over current fault conditions (under different fault current & study the tripping characteristics) 2. Testing of ACB under Earth fault conditions (under different fault current & study the tripping characteristics) 3. Study the construction & operation of ACB (AIR CIRCUIT BREAKER) Standard OEM Warranty not less	<ul> <li>Rated S.C. breaking- 50KA</li> <li>Rated (S.T.) with stand capacity 1sec- 50KA</li> <li>Over Current Relay Panel</li> <li>All the connecting of relay should have brought out on this panel &amp; it should consist of 2 NO trip contacts and Relay Coil</li> <li>Protection relay type (Numerical)</li> <li>Should consist of numerical type IDMT over current relay and earth Fault realy, current rating 5A, with current setting of 2-250% in seven equal steps of 2%, time setting 0.1 to 1.</li> <li>Necessary CT with suitable rating</li> <li>List of Experiments</li> <li>To study &amp; plot characteristics of Fuse</li> <li>To study &amp; plot characteristics of Air Circuit Breaker</li> <li>Testing of ACB under Over current fault conditions (under different fault current &amp; study the tripping characteristics)</li> <li>Testing of ACB under Earth fault conditions (under different fault current &amp; study the tripping characteristics)</li> <li>Study the construction &amp; operation of ACB (AIR CIRCUIT BREAKER)</li> </ul>
3.	(Schedule) Training	than One Year NA	Training of five personnel for three days
			realized of the personner for an ee augs

The last date of submission of tender is extended up to 02.00 PM on 05.05.2023. The tender shall be submitted to Central Store Section, MNIT Jaipur. The tender will be opened on same day i.e. 05.05.2023 at 3.00 PM in presence of the committee.

However, all the terms & conditions of the original NIQ will remain unchanged.

For details visit: <u>www.mnit.ac.in</u> and https://eprocure.gov.in/epublish/app

Deputy Registrar (Store & Purchas