

ANNEXURE-VOL-3.1.2
DRAWING FOR TEMPER CONDITIONS FOR SINGLE PHASE METER

	Phase - Neutral Connection Normal	Phase - Neutral Connection Reversed
NORMAL WIRING NOT TAMPERED	<p>CONDITION - 1</p>	<p>CONDITION - 2</p>
PHASE AND NEUTRAL CURRENT REVERSED TAMPER	<p>CONDITION - 3</p>	<p>CONDITION - 4</p>
FULL LOAD EARTH RETURNED TAMPER	<p>CONDITION - 5</p>	<p>CONDITION - 6</p>
FULL LOAD EARTH RETURNED AND CURRENT REVERSED TAMPER	<p>CONDITION - 7</p>	<p>CONDITION - 8</p>
PARTIAL LOAD EARTH RETURNED TAMPER	<p>CONDITION - 9</p>	<p>CONDITION - 10</p>
PARTIAL LOAD EARTH RETURNED AND CURRENT REVERSED TAMPER	<p>CONDITION - 11</p>	<p>CONDITION - 12</p>
NEUTRAL CURRENT REVERSED TAMPER	<p>CONDITION - 13</p>	<p>CONDITION - 14</p>
PHASE CURRENT REVERSED TAMPER	<p>CONDITION - 15</p>	<p>CONDITION - 16</p>
LEGEND :	R DIRECTION REVERSED E EARTH TAMPERED	NM NEUTRAL DISTURBANCE

Sign & Round Seal of the Bidder	Date and place	(Page 1 of 2)
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	Phase - Neutral Connection Normal	Phase - Neutral Connection Reversed
PARTIAL LOAD EARTH RETURNED AND NEUTRAL CURRENT REVERSED TAMPER		
PARTIAL LOAD EARTH RETURNED AND PHASE CURRENT REVERSED TAMPER		
CURRENT BYPASSED TAMPER		
NEUTRAL REMOVAL TAMPER		
NEUTRAL REMOVAL & CURRENT REVERSED TAMPER		
NEUTRAL DISTURBANCE TAMPER		
NEUTRAL DISTURBANCE TAMPER		
NEUTRAL DISTURBANCE TAMPER		
<p>LEGEND : R DIRECTION REVERSED E EARTH TAMPERED NM NEUTRAL DISTURBANCE</p>		

For Fig.26- 27- 28 : Due to application of diode, resistance or capacitor phase to neutral voltage reduce less than 230 V than meter should detect these applications as neutral disturbance & recording of meter should be at 240V, actual current & UPF. It is desired to have two indications viz. 'NM' and 'Earth' & logging of neutral disturbance event preferably. However, indication of either one with logging of event thereof will also be considered.

Sign & Round Seal of the Bidder	Date and place	(Page 2 of 2)
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