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| **Electric Loco Shed , Bhusawal**  **Check-sheet for Single Bottle VCB 22 CB (Areva )** | New Bitmap Image.bmp |

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| **O/H Date** | **Schedule -** | **VCB Sr. No -** |
| **Remove from Loco** |  | **Provided Date:-** |

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| **Sr. No.** | **Description** | **Specified Value.** | **Actual Value.** |
| 1 | Surge suppressor current at 110 V AC. | 14 - 19.5 mA |  |
| 2 | Pressure regulator setting | 5.2 -5.4 kg/cm² |  |
| 3 | Record QPDJ setting Cut in  Cut Out | 4.6 - 4.75 kg/cm² 3.85 -.4.0 kg/cm² |  |
| 4 | Pickup voltage | 55- 70 V DC |  |
| 5 | VCB contact travel test. | Must be taken. |  |
| 6 | Mag. valve resistance at R20°C | 798 Ω – 882 Ω |  |
| 7 | Magnet valve clearance.   * 1. Between armature & armature plate.   b) Slight clearance must be available  between top fluted valve & stem. | a) 0.51mm -0.61mm  b) Must be available |  |
| 8 | Gap between 21 mm setting gauge & operating rod. | >0.25 mm feeler gauge. |  |
| 9 | H.V. Testing.  VCB close- power terminal to earth.  VCB open -  a) Between I/C terminal to O/G terminal.  b) Between I/C terminal to earth terminal.  c) Between O/G terminal to earth terminal | 40 kV for one minute.  40 kV for one minute. |  |
| 10 | I. R. Value.   1. Power ckt 2. L.T. ckt. | 1) Power ckt. > 200 MΩ by 1 kv megger.  2) L.T. ckt. >10  MΩ by by 500V megger |  |

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| **Sr. No.** | **Description** | **Specified Value.** | **Actual Value.** |
| 11 | Air leakage test: -   1. VCB OFF position: - After applying air pressure at 6.5 Kg/cm2 to the breaker with the control magnet valve de-energized, seal the air entry to the circuit breaker & check the air pressure after 10 minute. 2. VCB ON position: - After applying air pressure at 6.5 Kg/cm2 to the breaker with the control magnet valve energized, seal the air entry to the circuit breaker & check the air pressure after 10 minute | The drop in pressure must not exceed 10 % of the initial pressure. |  |
| 12 | Q factor of coil (As per Instructions) | Checked |  |
| 13 | Endurance test: - 200 operations to be taken on test bench & see any abnormality. | Must be taken. |  |
| 14 | Check auxiliary switch and clean the contact . | Check and clean |  |
| 15 | Overhaul  a) Magnet valve  b) Air filter  c) Pressure switch  d) Pressure regulator. | Overhaul done. |  |
| 16 | Take Mili volt Drop of VST  ( As per OEM manual) | 46.7 mV |  |

Note:- 1) Point no 1 to 11& 13 to 16 from OEM manual.

**Must change Item of VCB 22 CB**

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| **Sr. No.** | **Item Description** | **Change** | **Not Change** | **Remark** |
| 1 | AOH Replacement Kit |  |  |  |
| 2 | IOH Replacement Kit |  |  |  |

**Remark:-**

**Sign of Tech - Sign of JE/SSE -**

**Name of Tech - Name of JE/SSE-**