# HT DATA VALIDATION POLICIES (RMU, HT)

## SECTION 1 - Static Data Validation Policies

Voltage Validation Ranges (±30% Buffer from Nominal Voltage)

Note: Allow ‘0’ always for all Tags

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **11 kV (Min–Max)** | **22 kV (Min–Max)** | **33 kV (Min–Max)** |
| 1 | VRY | 7,700 V – 14,300 V | 15,400 V – 28,600 V | 23,100 V – 42,900 V |
| 2 | VYB | 7,700 V – 14,300 V | 15,400 V – 28,600 V | 23,100 V – 42,900 V |
| 3 | VBR | 7,700 V – 14,300 V | 15,400 V – 28,600 V | 23,100 V – 42,900 V |
| 4 | AVG\_VLL | 7,700 V – 14,300 V | 15,400 V – 28,600 V | 23,100 V – 42,900 V |
| 5 | VR | - | - | - |
| 6 | VY | - | - | - |
| 7 | VB | - | - | - |
| 8 | AVG\_VLN | - | - | - |

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 9 | KWH | 0 | 999999999.999 |
| 10 | KVAH | 0 | 999999999.999 |
| 11 | KVARH | 0 | 999999999.999 |
| 12 | R\_PF | 0.3000 | 1.15 |
| 13 | Y\_PF | 0.3000 | 1.15 |
| 14 | B\_PF | 0.3000 | 1.15 |
| 15 | AVG\_PF | 0.3000 | 1.15 |
| 16 | FREQUENCY | 45 | 55 |
| 17 | R\_THD-V | 0.00 | 35.00 |
| 18 | Y\_THD-V | 0.00 | 35.00 |
| 19 | B\_THD-V | 0.00 | 35.00 |
| 20 | R\_THD-I | 0.00 | 50.00 |
| 21 | Y\_THD-I | 0.00 | 50.00 |
| 22 | B\_THD-I | 0.00 | 50.00 |
| 23 | RSSI | -120 | -20 |

## SECTION 2 – User Specific Data Validation Policies, GET from System Config Page

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 24 | IR | 0 | 1.5x of R-Ph Primary CT Current (HT System Config Page) |
| 25 | IY | 0 | 1.5x of Y-Ph Primary CT Current (HT System Config Page) |
| 26 | IB | 0 | 1.5x of B-Ph Primary CT Current (HT System Config Page) |
| 27 | AVG\_I | 0 | 1.5x of R-Ph Primary CT Current (HT System Config Page) |

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 28 | R\_KW | -50 | 2x of rated KVA (HT System Config Page) |
| 29 | Y\_KW | -50 | 2x of rated KVA (HT System Config Page) |
| 30 | B\_KW | -50 | 2x of rated KVA (HT System Config Page) |
| 31 | TOTAL\_KW | -50 | 2x of rated KVA (HT System Config Page) |
| 32 | R\_KVA | 0 | 2x of rated KVA (HT System Config Page) |
| 33 | Y\_KVA | 0 | 2x of rated KVA (HT System Config Page) |
| 34 | B\_KVA | 0 | 2x of rated KVA (HT System Config Page) |
| 35 | TOTAL\_KVA | 0 | 2x of rated KVA (HT System Config Page) |
| 36 | R\_KVAR | -50 | 1x of rated KVA (HT System Config Page) |
| 37 | Y\_KVAR | -50 | 1x of rated KVA (HT System Config Page) |
| 38 | B\_KVAR | -50 | 1x of rated KVA (HT System Config Page) |
| 39 | TOTAL\_KVAR | -50 | 1x of rated KVA (HT System Config Page) |

# LT DATA VALIDATION POLICIES (LT INCOMER, PCC)

## SECTION 1 - Static Data Validation Policies

Voltage Validation Ranges (±30% Buffer from Nominal Voltage)

Note: Allow ‘0’ always for all Tags

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 1 | VRY | 280 | 520 |
| 2 | VYB | 280 | 520 |
| 3 | VBR | 280 | 520 |
| 4 | AVG\_VLL | 280 | 520 |
| 5 | VR | 161 | 299 |
| 6 | VY | 161 | 299 |
| 7 | VB | 161 | 299 |
| 8 | AVG\_VLN | 161 | 299 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 9 | KWH | 0 | 999999999.999 |
| 10 | KVAH | 0 | 999999999.999 |
| 11 | KVARH | 0 | 999999999.999 |
| 12 | R\_PF | 0.3000 | 1.15 |
| 13 | Y\_PF | 0.3000 | 1.15 |
| 14 | B\_PF | 0.3000 | 1.15 |
| 15 | AVG\_PF | 0.3000 | 1.15 |
| 16 | FREQUENCY | 45 | 55 |
| 17 | R\_THD-V | 0.00 | 35.00 |
| 18 | Y\_THD-V | 0.00 | 35.00 |
| 19 | B\_THD-V | 0.00 | 35.00 |
| 20 | R\_THD-I | 0.00 | 50.00 |
| 21 | Y\_THD-I | 0.00 | 50.00 |
| 22 | B\_THD-I | 0.00 | 50.00 |
| 23 | RSSI | -120 | -20 |

## SECTION 2 – User Specific Data Validation Policies, GET from System Config Page

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 24 | IR | 0 | 1.5x of R-Ph Primary CT Current (LT System Config Page) |
| 25 | IY | 0 | 1.5x of Y-Ph Primary CT Current (LT System Config Page) |
| 26 | IB | 0 | 1.5x of B-Ph Primary CT Current (LT System Config Page) |
| 27 | AVG\_I | 0 | 1.5x of R-Ph Primary CT Current (LT System Config Page) |

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 28 | R\_KW | -50 | 2x of rated KVA (LT System Config Page) |
| 29 | Y\_KW | -50 | 2x of rated KVA (LT System Config Page) |
| 30 | B\_KW | -50 | 2x of rated KVA (LT System Config Page) |
| 31 | TOTAL\_KW | -50 | 2x of rated KVA (LT System Config Page) |
| 32 | R\_KVA | 0 | 2x of rated KVA (LT System Config Page) |
| 33 | Y\_KVA | 0 | 2x of rated KVA (LT System Config Page) |
| 34 | B\_KVA | 0 | 2x of rated KVA (LT System Config Page) |
| 35 | TOTAL\_KVA | 0 | 2x of rated KVA (LT System Config Page) |
| 36 | R\_KVAR | -50 | 1x of rated KVA (LT System Config Page) |
| 37 | Y\_KVAR | -50 | 1x of rated KVA (LT System Config Page) |
| 38 | B\_KVAR | -50 | 1x of rated KVA (LT System Config Page) |
| 39 | TOTAL\_KVAR | -50 | 1x of rated KVA (LT System Config Page) |

# MCC DATA VALIDATION POLICIES (INDIVIDUAL MACHINES)

## SECTION 1 - Static Data Validation Policies

Voltage Validation Ranges (±30% Buffer from Nominal Voltage)

Note: Allow ‘0’ always for all Tags

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 1 | VRY | 280 | 520 |
| 2 | VYB | 280 | 520 |
| 3 | VBR | 280 | 520 |
| 4 | AVG\_VLL | 280 | 520 |
| 5 | VR | 161 | 299 |
| 6 | VY | 161 | 299 |
| 7 | VB | 161 | 299 |
| 8 | AVG\_VLN | 161 | 299 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 9 | KWH | 0 | 999999999.999 |
| 10 | KVAH | 0 | 999999999.999 |
| 11 | KVARH | 0 | 999999999.999 |
| 12 | R\_PF | 0.3000 | 1.1500 |
| 13 | Y\_PF | 0.3000 | 1.1500 |
| 14 | B\_PF | 0.3000 | 1.1500 |
| 15 | AVG\_PF | 0.3000 | 1.1500 |
| 16 | FREQUENCY | 45.00 | 55.00 |
| 17 | R\_THD-V | 0.00 | 35.00 |
| 18 | Y\_THD-V | 0.00 | 35.00 |
| 19 | B\_THD-V | 0.00 | 35.00 |
| 20 | R\_THD-I | 0.00 | 50.00 |
| 21 | Y\_THD-I | 0.00 | 50.00 |
| 22 | B\_THD-I | 0.00 | 50.00 |
| 23 | RSSI | -120 | -20 |

## SECTION 2 – User Specific Data Validation Policies, GET from System Config Page

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 24 | IR | 0 | 1.5x of R-Ph Primary CT Current (MCC System Config Page) |
| 25 | IY | 0 | 1.5x of Y-Ph Primary CT Current (MCC System Config Page) |
| 26 | IB | 0 | 1.5x of B-Ph Primary CT Current (MCC System Config Page) |
| 27 | AVG\_I | 0 | 1.5x of R-Ph Primary CT Current (MCC System Config Page) |

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No | **TAGS** | **Range Start (Min)** | **Range End (Max)** |
| 28 | R\_KW | -50 | 2x of rated KVA (MCC System Config Page) |
| 29 | Y\_KW | -50 | 2x of rated KVA (MCC System Config Page) |
| 30 | B\_KW | -50 | 2x of rated KVA (MCC System Config Page) |
| 31 | TOTAL\_KW | -50 | 2x of rated KVA (MCC System Config Page) |
| 32 | R\_KVA | 0 | 2x of rated KVA (MCC System Config Page) |
| 33 | Y\_KVA | 0 | 2x of rated KVA (MCC System Config Page) |
| 34 | B\_KVA | 0 | 2x of rated KVA (MCC System Config Page) |
| 35 | TOTAL\_KVA | 0 | 2x of rated KVA (MCC System Config Page) |
| 36 | R\_KVAR | -50 | 1x of rated KVA (MCC System Config Page) |
| 37 | Y\_KVAR | -50 | 1x of rated KVA (MCC System Config Page) |
| 38 | B\_KVAR | -50 | 1x of rated KVA (MCC System Config Page) |
| 39 | TOTAL\_KVAR | -50 | 1x of rated KVA (MCC System Config Page) |