## KEY

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|---|---|
| **A** | AMMETER (Amps) |
| **AVR** | AUTOMATIC VOLTAGE REGULATOR |
| **B** | BUCHHOLZ ALARM |
| **BB** | BUSBAR PROTECTION |
| **BD** | BIAS DIFFERENTIAL |
| **BG** | BUCHHOLZ TRIP |
| **CBF** | CIRCUIT BREAKER FAILURE |
| **DAR** | DELAYED AUTOMATIC RECLOSING |
| **DEF** | DIRECTIONAL EARTH FAULT PROTECTION |
| **DOC** | DIRECTIONAL OVER CURRENT PROTECTION |
| **EF** | BACK UP EARTH FAULT PROTECTION |
| **FL** | FAULT LOCATOR |
| **FR** | FAULT RECORDER |
| **HSA** | HIGH SPEED AMMETER |
| **LOA** | LOW OIL LEVEL ALARM |
| **M** | METERING |
| **OC** | OVER CURRENT PROTECTION |
| **OCEF** | OVER CURRENT & EARTH FAULT PROTECTION |
| **OCT** | OVER CURRENT RELAY TOPREVENT TAP CHANGING |
| **OT.1** | OIL TEMPERATURE STAGE 1 ALARM |
| **OT.2** | OIL TEMPERATURE STAGE 2 TRIP |
| **PW** | PILOT WIRE PROTECTION |
| **PR** | PRESSURE RELIEF VALVE |
| **REF** | RESTRICTED EARTH FAULT PROTECTION |
| **RP** | REVERSE POWER RELAY |
| **S** | SYNCHRONISING |
| **SBEF** | STAND-BY EARTH FAULT PROTECTION |
| **SchDb** | CHECK SYNCHRONISING DEAD BUS |
| **SchDbDt** | CHECK SYNCHRONISING DEAD BUS, DEAD TRANSFORMER |
| **SchD1** | CHECK SYNCHRONISING DEAD LINE |
| **SEF** | SENSITIVE EARTH FAULT PROTECTION |
| **TCS** | TAP CHANGER SURGE |
| **TM** | TARIFF METERING |
| **UF** | UNDER FREQUENCY RELAY |
| **UV** | UNDER VOLTAGE RELAY |
| **V** | VOLT METER |
| **VAR** | VOLT AMPS REACTIVE METER |
| **W** | WATTMETER |
| **WT.1** | WINDING TEMPERATURE STAGE 1 ALARM |
| **WT.2** | WINDING TEMPERATURE STAGE 2 TRIP |
| **Z** | IMPEDANCE PROTECTION |
| **NV** | NO VOLTAGE RELAY |
| **OV** | OVER VOLTAGE RELAY |
| **OL** | OVER LOAD |
| **OF** | OVER FLUX |
| **ROV** | RESIDUAL OVERVOLTAGE PROTECTION |

| | |
|---|---|
| **CVT** | **CAPACITIVE VOLTAGE TRANSFORMER** |
| **SA** | **SURGE ARRESTOR** |
| **CT** | **CURRENT TRANSFORMER** |
| **CB** | **CIRCUIT BREAKER** |
| **DS/ES** | **DISCONCERT & EARTHSWITCH** |
| **DS** | **B.B DISCONCERT** |
| **SE** | **CABLE TERMINATION SEALING END** |
| **PI** | **POST INSULATOR** |
| **GIB** | **GAS INSULATEB BUSBAR** |
| **GAB** | **GAS TO BUSHING** |

FOR TENDER PURPOSE ONLY

| REV. | DATE | DESCRIPTION | DRN. | DES. | CHK. | APP. |
|---|---|---|---|---|---|---|

**NATIONAL ELECTRIC POWER CO.**

400/132/33kV NATIONAL CONVEYANCE S/S

KEY TO SCHEMATIC DIAGRAMS

| | | | |
|---|---|---|---|
| DRN : T.HEKMAT | DATE : 16.09.2026 | DRG. No. | REV. |
| DES : A.HIJAZI | SCALE : N.T.S | 7-18-E3-0004 | 0 |
| CHK : R.HELO | DIM.IN : | | |
| APP : A.SHDAIFAT | | | |

TENDER No. 75/2026

DESIGN SECTION S/S