A. GENERAL CHARACTERISTICS

- Design standards: IEC 76
- Transformer type: Hermetically Sealed Totally Oil Filled
- Service Condition: Outdoor
- Type of oil: Mineral Oil Class 1 acc. to IEC 296
- Number of phase: 3 Phase
- Frequency: 50 Hz

B. TECHNICAL SPECIFICATION

- Capacity: 3150 kVA
- Primary Voltage: 20 kV
- Secondary Voltage: 0.4 kV
- Vector Group: Dyn5
- Cooling: ONAN
- Temperature Rise - Oil: 60 oC
- Temperature Rise - Winding: 65 oC
- No load losses at nominal voltage: 3800 Watts
- On load losses at principal tapping: 37000 Watts
- Impedance voltage: 7 %
- Off load current at nominal voltage: 1.7 %
- Temperature Insulation Class: A
- Noise: 62 dB
- Off Circuit Tapping value: +/-2.5%; +/-5%

C. INSULATION CLASS OF THE WINDINGS

- Highest system voltage (kV) Primary: 24
  Secondary: 1.1
- Impulse test voltage (kV): Primary 125, Secondary 0
- Applied test voltage (kV): Primary 50, Secondary 3

D. EFFICIENCY AND VOLTAGE REGULATION

<table>
<thead>
<tr>
<th>Efficiency ( % )</th>
<th>Voltage Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4/4 load</td>
</tr>
<tr>
<td>Pf 0.8</td>
<td>98.41</td>
</tr>
<tr>
<td>Pf 1.0</td>
<td>98.72</td>
</tr>
</tbody>
</table>

E. APPROXIMATE WEIGHTS AND DIMENSION

- Total length: 2,620 mm
- Total width: 1,530 mm
- Total height: 2,100 mm
- Weight of oil: 1,645 kg
- Weight of core and winding: 2,700 kg
- Total weight: 6,400 kg
- Approximate Drawing No.: Light Grey RAL 7032

The above dimensions and masses are approximate and provided to give a general description of our proposed transformer.
F. ACCESSORIES
- Name Plate and Rating Plate
- HV Plug in Bushings 95mm2 and LV Porcelain Bushings
- Off Circuit Tap Changer
- Oil Filling Valve
- Oil Draining Valve
- Lifting Lugs
- Grounding Terminal
- Bidirectional Rollers
- Pressure Relief Device Without Contact
- Protection Relay RIS

G. DEVIATIONS / EXCEPTIONS
- None

H. NOTES
- None

I. LIST OF TEST
Routine Test:
- Measurement of the resistance value and checking of polarities
- Measurement of the ratio on all taps
- No load test for measurement of the no load loss and no load current
- Short circuit test for determination of the on load loss and impedance
- Applied voltage test
- Induced voltage test

Type test:
- Temperature rise test
- Full wave impulse test (1.2 / 50 us)

Tests other than the above mentioned list needs further confirmation