A. GENERAL CHARACTERISTICS

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

B. TECHNICAL SPECIFICATION

Capacity : 1600 kVA
Primary Voltage : 20 kV
Secondary Voltage : 0.4 kV
Vector Group : Dyn5
Cooling : ONAN
Temperature Rise - Oil : 60 °C
- Winding : 65 °C
No load losses at nominal voltage : 2600 Watts
On load losses at principal tapping : 18100 Watts
Impedance voltage : 6 %
Off load current at nominal voltage : 2 %
Temperature Insulation Class : A
Noise : 60 dB
Off Circuit Tapping value : +/-2.5%; +/-5%

C. INSULATION CLASS OF THE WINDINGS

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

D. EFFICIENCY AND VOLTAGE REGULATION

<table>
<thead>
<tr>
<th>Efficiency ( % )</th>
<th>Voltage Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/4 load</td>
<td>3/4 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 : 1,960 mm
Total width : 1,180 mm
Total height : 1,760 mm
Weight of oil : 775 kg
Weight of core and winding : 1,590 kg
Total weight : 3,410 kg
Approximate Drawing No. : 
Painting Colour : Light Grey RAL 7032

The above dimensions and masses are approximate and provided to give a general description of our proposed transformer.

STANDARD GSP 1600 KVA (Indoor)
F. ACCESSORIES
- Name Plate and Rating Plate
- HV Plug in Bushings 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 impuls test (1.2 / 50 us) : ✓

Tests other than the above mentioned list needs further confirmation