

### Transformer Specification

Quote. Ref. :

Customer :

Project :

|                                     |                            |                                                            |
|-------------------------------------|----------------------------|------------------------------------------------------------|
| Rated power                         | ...KVA.                    | 315                                                        |
| Type of transformer                 | -                          | Oil immersed (Hermetically sealed)                         |
| MEPS standard                       | -                          | Yes                                                        |
| Standard                            | -                          | AS/IEC 60076                                               |
| Cooling System                      | -                          | ONAN                                                       |
|                                     |                            | KNAN (FR3 oil high fire point fluid natural air Natural)   |
|                                     |                            | KNAN (Midel oil high fire point fluid natural air Natural) |
| Material                            |                            | Aluminium                                                  |
| IP degree of protection             |                            | IP65 cable box IEC                                         |
| Electrical insulation class         |                            | A                                                          |
| No. of phase                        | -                          | 3                                                          |
| Frequency                           | ...Hz.                     | 50                                                         |
| Rate of voltage                     | : Primary ...V.            | 22000                                                      |
|                                     | : Secondary ...V.          | 433 / 250                                                  |
| Vector group                        | -                          | Dyn11                                                      |
| Tapping                             | Type                       | Off circuit tap changer                                    |
|                                     | No. of steps               | 4                                                          |
|                                     | Percentage of tapping      | +/- 2 x 2.5 %                                              |
| Impedance voltage at 75 °C          | ...%                       | 4.00                                                       |
| No - Load current                   | ...%                       | 1.25                                                       |
| Ambient temperature max             | ...°C                      | 45                                                         |
| Average Temperature rise of winding | ...°C                      | 65                                                         |
| Average Temperature rise of top oil | ...°C                      | 60                                                         |
| Noise level not more than           | ...dB                      | 56                                                         |
| No - Load loss                      | ...Watt                    | 620                                                        |
| Load loss at 75 °C                  | ...Watt                    | 3430                                                       |
| Efficiency at P.F. = 1              | : 25% of rate power ...%   | 98.95                                                      |
|                                     | : 50% of rate power ...%   | 99.07                                                      |
|                                     | : 75% of rate power ...%   | 98.93                                                      |
|                                     | : 100% of rate power ...%  | 98.73                                                      |
| Voltage regulation                  | : at P.F. = 0.8 ...%       | 3.21                                                       |
|                                     | : at P.F. = 0.9 ...%       | 2.70                                                       |
|                                     | : at P.F. = 1 ...%         | 1.16                                                       |
| Impulse withstand Voltage           | : Primary winding ...KV.   | 125                                                        |
|                                     | : Secondary winding ...KV. | -                                                          |
| Power frequency                     | : Primary winding ...KV.   | 50                                                         |
|                                     | : Secondary winding ...KV. | 3                                                          |
| Terminal arrangement                | H.V. side                  | Cable                                                      |
|                                     | L.V. side                  | Cable                                                      |
| Installation on                     |                            | Platform / Concrete foundation                             |



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**Project :**

**Accessories :**

|                                        |          |
|----------------------------------------|----------|
| H.V. bushing with terminal connector   | Included |
| L.V. bushing with terminal connector   | Included |
| Grounding pad or earth terminal        | Included |
| Lifting lug                            | Included |
| Upper filter press connection          | Included |
| Oil drain, filter press sampling valve | Included |
| Name plate                             | Included |
| Skid Base                              | Included |
| Mechanical pressure relief device      | Included |
| DMCR relay                             | Included |
| Oil level indicator                    | Included |
| <b>Testing :</b>                       |          |
| - Routine test                         |          |
| Ratio test at each position of tap     | Included |
| Polarity and phase relation test       | Included |
| Resistance measurement                 | Included |
| No-load loss and exciting current test | Included |
| Impedance and load loss test           | Included |
| Applied potential test                 | Included |
| Induced potential test                 | Included |
| Insulation resistance test             | Included |
| Oil test                               | Included |
| NDT test                               | Included |