



PEMERINTAH KOTA PONTIANAK
PERUSAHAAN DAERAH AIR MINUM
TIRTA KHATULISTIWA



BERITA ACARA PEMERIKSAAN DAN PENERIMAAN BARANG

Nomor : 01/UTR-PDAM/VIII/2018

Pada hari ini **Senin** tanggal **Dua Puluh Tujuh** bulan **Agustus** tahun **Dua Ribu Delapan Belas**, Kami yang bertandatangan di bawah ini :

- | | |
|-------------------|----------------------|
| 1. Kusnandar, SP | Jabatan : Ketua |
| 2. Ruslan | Jabatan : Sekretaris |
| 3. Budiarto, A.Md | Jabatan : Anggota |

Telah melakukan pemeriksaan dan penerimaan barang berdasarkan Keputusan Direktur Utama PDAM Tirta Khatulistiwa Nomor : 109 Tahun 2018, tanggal 31 Juli 2018 Tentang Panitia Pemeriksaan dan Penerimaan Barang Pekerjaan Pengadaan dan Pemasangan Trafo 400 KVA Lokasi Booster Selat Panjang dan sesuai dengan Surat Perintah Kerja (SPK) Nomor : 40/PPK-SPK/PDAM/VII-14/2018 tanggal 31 Juli 2018 Pekerjaan Pengadaan dan Pemasangan Trafo 400 KVA Lokasi Booster Selat Panjang PDAM Tirta Khatulistiwa, dengan hasil sebagai berikut :

| No. | NAMA BARANG | SATUAN | VOLUME | KETERANGAN |
|-----|--|--------|----------|--|
| 1. | Trafo 400 KVA; - Merek Trafindo ; Serial number : 183308332 - Rate capacity : 400 kVA – 50 Hz - Number of Phase : 3 phase - Primary Voltage : 20 kV ; Secondary Voltage : 400/231 Volt - Vector Group : Dyn-5 ; Standar IEC-60076 - Type of cooling ONAN - Berat : 1515 Kg ; Tahun 2018 | unit | 1 (satu) | Sesuai, telah dipasang kondisi trafo baik dan dapat diterima |

Demikianlah Berita Acara ini dibuat dalam rangkap 3 (tiga) untuk dipergunakan sebagaimana mestinya.

Penyedia Barang :

**PT. DWI PRATAMA
SEJAHTERA,**


MUSPIANTI
Direktur

**Panitia Pemeriksaan dan Pemeriksaan
Barang,**


1. Kusnandar, SP
Ketua



2. Ruslan
Sekretaris



3. Budiarto, A.Md
Anggota



Mengetahui/Menyetujui :
Pejabat Penanggungjawab Kegiatan,


ABDULLAH, S.ST
Direktur Teknik



PT. TRAFINDO PRIMA PERKASA

Office : Jl. Hayam Wukir 4 FK Jakarta 10120 . Phone : 3451384, 3850703, 3861865 ; Fax : 3850702, 3861868
 Factory : Jl. Sisirang (Pasar Kemis), Desa Gembir, Kecamatan Jatiwangi, Tangerang
 Email : trafo@trafindonesia.com ; service@trafindonesia.com ; http://www.trafindonesia.com



SPECIFICATION FOR TRANSFORMER

To. **CV MUTIARA KHATULISTIWA**
PONTIANAK

Date **19 JULY 2018**
 Spec No. **0942 / SP / 07 / 2018**

1. TYPE ONAN : Oil immersed self cooled / in / out door use / step-up / step-down / hermetically sealed distribution transformer
2. SERVICE CONDITION : The transformer will be installed at the altitudes below 1.000 meters and the maximum ambient temperature does not exceed **40 °C**

3. STANDARD : The transformer is designed, manufactured and tested in accordance with :
IEC 600-76 / SPLN 50 / 97 / SLI 1985

4. RATING

| | | | | | | | |
|-----|-------------------------------------|---|-------|-----|--------------------|----------------|------|
| 4-1 | Number of Phase | 3 | phase | 4-2 | Frequency | 50 | Hz |
| 4-3 | Primary Voltage | 20 | kV | 4-4 | Secondary Voltage | 400/231 | Volt |
| | Winding Connection | DELTA | | | Winding Connection | WYE | |
| 4-5 | Rated Capacity (total) | 400 | kVA | | | | |
| | Incase of double primary voltage, | | | | capacity will be : | | |
| | at | - | kV | | Rated Capacity | - | kVA |
| | at | - | kV | | Rated Capacity | - | kVA |
| | Incase of double secondary voltage, | | | | capacity will be : | | |
| | at | - | V | | Rated Capacity | - | kVA |
| | at | - | V | | Rated Capacity | - | kVA |
| 4-6 | Additional Taps on High Voltage | +/- 2.5 % & +/- 5 % (5 Taps) | | | | | |

5. POLARITY AND PHASOR RELATIONSHIP : The transformer will be subtractive polarity for single phase and phasor relationship for three will be **Dyn 5**

6. ELECTRIC PERFORMANCE :

| | | | | | | |
|------|--------------------------------------|---|------|-------------------|--------------|--------------|
| 6-1 | Insulation Class | 24 | kV | Secondary Voltage | 1.1 | kV |
| 6-2 | Basic Impulse Level | 125 | kV | | - | kV |
| 6-3 | Applied Voltage Test During 1 Minute | 50 | kV | | 3 | kV |
| 6-4 | Induced Voltage Test | Apply 2 times of the rate voltage at 350 cycles per second for 18 second | | | | |
| 6-5 | Temperature Rise | The coil temperature rise measured by resistance method will not exceed and the oil temperature rise will not exceed 60 °C | | | | |
| 6-6 | Losses at Rated Voltage | 20 | Watt | | | |
| | No Load Losses | 930 | Watt | | | |
| | Load Losses (at 75 °C) | 4,600 | Watt | | | |
| | Total Losses | 5,530 | Watt | | | |
| 6-7 | Efficiency at % Rated Capacity | 100 | | 75 | 50 | 25 |
| | at P.F. = 1.0 | 98.84 | | 98.84 | 98.97 | 98.80 |
| 6-8 | Exciting Current | 1.90 | % | | | |
| 6-9 | Percent Impedance | 4.00 | % | | | |
| 6-10 | Voltage Regulation at P.F. = 1.0 | 1.22 | % | | | |
| | Voltage Regulation at P.F. = 0.8 | 3.25 | % | | | |

Spec. No. **0942 / SP / 07 / 2018**

PT. TRAFINDO PRIMA PERKASA

7. APPROXIMATE WEIGHT AND DIMENSION WITHOUT PACKING : to be informed later on
- 7-1. The outline drawing of the transformer will be submitted to customer

8. ACCESSORIES : The transformer will be furnished with all necessary accessories as follow :

| GENERAL ACCESSORIES | SPECIAL ACCESSORIES |
|---|--|
| <input checked="" type="checkbox"/> HV Porcelain Bushing on Cover | <input type="checkbox"/> Plug in Bushing - mm2 c/w. Straight Connector on Cover |
| <input checked="" type="checkbox"/> LV Porcelain Bushing on Cover | <input type="checkbox"/> Integrated Safety Device c/w Contact |
| <input type="checkbox"/> Oil Level Indicator w/o Contact | <input type="checkbox"/> Magnetic Oil Level Gauge c/w Alarm Contact |
| <input checked="" type="checkbox"/> Thermometer w/o Contact | <input type="checkbox"/> Dial Thermometer c/w Alarm & Trip Contact |
| <input checked="" type="checkbox"/> Manual Off-Load Tap Changer | <input type="checkbox"/> Buchholz Relay c/w Alarm & Trip Contact |
| <input type="checkbox"/> Name Plate | <input type="checkbox"/> Conservator c/w Sampling Valve |
| <input checked="" type="checkbox"/> Earth Terminal | <input type="checkbox"/> Breather c/w Silicagel |
| <input checked="" type="checkbox"/> Radiator | <input type="checkbox"/> Air-filled LV Junction Box |
| <input checked="" type="checkbox"/> Drain Valve | <input type="checkbox"/> HV/LV Cable Box |
| <input type="checkbox"/> Sampling Valve | <input type="checkbox"/> N2 Filling Valve |
| <input checked="" type="checkbox"/> Lifting Lug | <input type="checkbox"/> Pressure Vacuum Gauge c/w Bleeder |
| <input type="checkbox"/> Jacking Lug | <input type="checkbox"/> Pressure Relief Valve w/o Contact |
| <input checked="" type="checkbox"/> Roller | <input type="checkbox"/> Pressure Relief Device c/w Alarm Contact |
| <input type="checkbox"/> Square Hole | <input type="checkbox"/> Radiator Fans |
| <input type="checkbox"/> Skid Base (Pad Mounted) | <input type="checkbox"/> Radiator Valves |
| <input type="checkbox"/> Hanger (Pole Mounted) | <input type="checkbox"/> Terminal Control Box |
| <input checked="" type="checkbox"/> Oil Filter Valve | <input type="checkbox"/> Neutral CT |
| <input type="checkbox"/> Voltage Change Over Board | <input type="checkbox"/> Thermometer Pocket |
| | <input type="checkbox"/> Winding Thermometer c/w Alarm & Trip Contact |
| | <input type="checkbox"/> CT for Winding Thermometer |
| | <input type="checkbox"/> Sudden Pressure Rise Relay + Seal in Relay c/w Alarm & Trip Contact |
| | <input type="checkbox"/> Ladder |

9. ADDITIONAL INFO :

| DESCRIPTION | |
|-------------|--|
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10. NOTE : - Winding Al-Al

PROPOSER :

Date of Approval :

Lampiran Berita Acara Pemeriksaan dan Penerimaan Barang
Lokasi Booster Selat Panjang

Nomor : 01/UTR-PDAM/VIII/2018, Tanggal 27 Agustus 2018

