



| | | | |
|---|--------------------|------|-----------|
|  | DATA TEKNIS PROYEK | | Nomor : |
| | | | Halaman : |
| | BIRO ENGINEERING | MALL | Tanggal : |

| | | |
|---------------------|---|-------------------------------------|
| NAMA PROYEK | : | BINTARO JAYA XCHANGE TAHAP 2 |
| PEMILIK | : | PT JAYA REAL PROPERTY, Tbk |
| JENIS PROYEK | : | MALL & HOTEL |
| LOKASI | : | BINTARO SECTOR 9, TANGERANG SELATAN |
| PERIODE PELAKSANAAN | : | JULI 2019 |

| 4 ELEKTRIKAL (MALL Update 26/03/20) | | | | |
|-------------------------------------|---|-----------|--------|------------|
| DATA DAYA UTAMA | | KAPASITAS | SATUAN | KETERANGAN |
| Besaran Daya Total | : | 9827 | KVA | |
| Listrik Total untuk Penerangan | : | 85,1 | KVA | |
| Listrik Total untuk Stop Kontak | : | 1829,22 | KVA | |
| Listrik Total untuk Daya : | | | | |
| - P-Oceanarium | : | 800 | KVA | |
| - P-Chiller | : | 2.200 | KVA | |
| - VAC | : | 1.278 | KVA | |
| - Lift | : | 276 | KVA | |
| - Escalator/Travelator | : | 336 | KVA | |
| - Pompa-pompa | : | 2.082 | KVA | |
| - Total | : | 8886,93 | KVA | |


| DATA KEBUTUHAN DAYA (MALL Update 26/03/20) | | | | | | | |
|--|---|---------|------------------------------------|--------|-------------|--------|------------|
| Lighting / Penerangan | | MERK | TYPE | JUMLAH | JUMLAH DAYA | SATUAN | KETERANGAN |
| Type & Merk Lampu Lobby | : | Philips | TL Bracket LED 1x14,5 Watt | 106 | 1.537 | KW | |
| | | | Downlight LED 1100 Lumen 11,5 Watt | 83 | 0,954 | KW | |
| Type & Merk Lampu Unit | : | | | | | KW | |
| Type & Merk Lampu Koridor | : | Philips | Downlight LED 2300 Lumen 22 Watt | 937 | 20.614 | KW | |
| | | | Downlight LED 1100 Lumen 11,5 Watt | 166 | 1.909 | KW | |
| | | | Downlight 600 Lumen 8 Watt | 79 | 0,632 | KW | |
| | | | Lampu Exit 2x8 Watt | 81 | 1.296 | KW | |

| | | | | | | | | |
|---|---|------------------------|-----------------------|--|-----|--------|-----|---|
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| BIRO ENGINEERING | | | MALL | | | | | Tanggal : |
| | Type & Merk Lampu Office | : | Philips | TL Box Armatur LED 2x14,5 Watt | 9 | 0,261 | KW | NOTE: Special Lighting dan Landscape belum ada. Stopkontak Untuk Tenant Belum ada By Tenant. Jumlah daya Stopkontak belum termasuk untuk Ocenarium. b bn/Untuk Busduct masih proses revisi d b bnnesign. |
| | | | | TL Balok LED 2x14,5 Watt | 101 | 2.929 | KW | |
| | | | | Downlight LED 1100 Lumen 11,5 Watt | 13 | 0,149 | KW | |
| | Type & Merk Lampu Parkir | : | Philips | TL Balok LED 1x14,5 Watt | 720 | 10.440 | KW | |
| | Type & Merk Lampu Tangga Kebakaran | : | Philips | TL Brakect LED 2x14,5 Watt | 106 | 3.074 | KW | |
| | Type & Merk Lampu Toilet | : | Philips | Downlight 600 Lumen 8 Watt | 279 | 2.232 | KW | |
| | | | | Downlight Dichroic 7 Watt-12 Volt | 122 | 0,854 | KW | |
| | Type & Merk Lampu R.Panel | : | Philips | TL Balok LED 2x14,5 Watt | 141 | 4.089 | KW | |
| | Type & Merk Lampu R.AHU | : | Philips | TL Balok LED 1x14,5 Watt | 154 | 2.233 | KW | |
| | Type & Merk Lampu RAM | : | Philips | Wall Lam PL 18 watt | 42 | 0,756 | KW | |
| | Type & Merk Lampu ATAP | : | Philips | Spot light LED 90 Watt | 38 | 3.420 | KW | |
| | Type & Merk Lampu Jalan | : | | | | | KW | |
| | Equipment Utama | | | | | | | |
| | Type & Merk Trafo | : | B&D | TRAFO BASAH / Step-Down | 5 | 2500 | KVA | |
| | | : | B&D | TRAFO KERING / Step-Up | 1 | 2500 | KVA | |
| | Type & Merk Panel | : | SMBE | Indor | 146 | Unit | | |
| | Type & Merk Kabel | : | Voksel | NYY, NYM, NYA,NYFGBY, N2SXY | | | | |
| | Type & Merk BUS Duct | : | Megatron | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | | | | |
| | Type & Merk Amature (Stop kontak /dll) | PUBLIK TOTAL | Boss, ABB & Schneider | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | 476 | 185,80 | KW | |
| | | TENANT TOTAL | | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | | | KW | |
| | | LANTAI DASAR | | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | | | | |
| | | 1 Lantai Parkir (B1) | | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | | | | |
| | | PARKIRAN Total | | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | | | | |

| | | | | | | | | |
|---|---------------------|----------------|--------------------|--------------------|--|-----|--|-----------|
|  | | | DATA TEKNIS PROYEK | | | | | Nomor : |
| | | | | | | | | Halaman : |
| BIRO ENGINEERING | | | MALL | | | | | Tanggal : |
| | Grid Switch /Saklar | Grid Switch | : | Boss,ABB&Schneider | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | 13 | | Bh |
| | | Saklar Tunggal | : | | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | 51 | | Bh |
| | | Saklar Ganda | : | | DIISI SESUAI TYPE YG TERTERA DI BROSUR/PPM | 149 | | Bh |
| | Type & Merk CB | | : | Schneider | Metal clad | 3 | | Bh |


| 5 | SOUND SYSTEM, TELEPON, FA, CCTV, BAS (MALL Update 26/03/20) | | | | | | KETERANGAN |
|--|---|-----------------------------|---|---------------------------------|----------------|--------|------------|
| Equipment Utama | | | | MERK | TYPE | JUMLAH | SATUAN |
| SOUND SYSTEM | | | | | | | |
| | Sound System Player | | : | TOA | Belum Diajukan | 1 | UNIT |
| | Speaker | Accoustic Normal | : | TOA | Belum Diajukan | 210 | TITIK |
| | | Accoustic Emergency | : | TOA | Belum Diajukan | 316 | TITIK |
| | | Normal (Tanpa Accoustic) | : | TOA | Belum Diajukan | 43 | TITIK |
| | | Emergency (Tanpa Accoustic) | : | TOA | Belum Diajukan | 188 | TITIK |
| | | | | | | | |
| | Telepon Line | | : | Panasonic | Belum Diajukan | 12 | LINE |
| | PABX | CO | | Panasonic | Belum Diajukan | 216 | TITIK |
| | | EXTENSION | : | | Belum Diajukan | 216 | TITIK |
| | Intercom | | | N/A | | | UNIT |
| | KABEL | | | Kabelindo,Metal,Supreme,V oksel | Belum Diajukan | | |
| | | | | | | | |
| FIRE ALARM | | | | | | | |
| | Smoke/Heat Detector | TENANT TOTAL | | NOHMI | Belum Diajukan | | TITIK |
| | | PUBLIK TOTAL | | | Belum Diajukan | 489 | TITIK |
| | | Lantai Dasar | | | | | TITIK |
| | | 1 Lantai Parkir (B1) | | | | | TITIK |
| | | PARKIRAN Total | | | | | TITIK |
| NOTE : Smoke Detector/Head Detector Untuk Tenant Belum | | | | | | | |


NOTE : Smoke Detector/Head Detector Untuk Tenant Belum

| | | | | | | | | |
|---|---------------------------|------------------------|---|--|----------------------------|----------------------------|-------|--|
|  | | | | DATA TEKNIS PROYEK | | | | Nomor : |
| | | | | | | | | Halaman : |
| BIRO ENGINEERING | | | | MALL | | | | Tanggal : |
| | Head Detector | TENANT | | NOHMI | Belum Diajukan | | TITIK | ada.CCTV Untuk area Tenant Tidak ada. Intercom tidak ada. |
| | | PUBLIK | : | | Belum Diajukan | 316 | TITIK | |
| | | Lantai Dasar | | | | | TITIK | |
| | | 1 Lantai Parkir (B1) | | | | | TITIK | |
| | | PARKIRAN Total | | | | | TITIK | |
| | Type & Merk Bell | | : | NOHMI | Belum Diajukan | Belum Ditentukan Perencana | | |
| | Panel Utama Alarm | | : | NOHMI | Belum Diajukan | 1 | UNIT | |
| | Kabel | | : | Voksel | NYA,AWG | | | |
| | | | : | Voksel | FRC. | | | |
| | | | | | | | | |
| | CCTV | | | | | | | |
| | CCTV | PUBLIK TOTAL | : | Belum Ditentukan Perencana | Belum Ditentukan Perencana | 128 | TITIK | |
| | | TENANT TOTAL | : | N/A | N/A | N/A | TITIK | |
| | KABEL | | | Kabelindo,Metal,supreme,extrana,voksel | NYM,NYY | | | |
| | | | | Belden | Fiber Optic,UTP CAT 6 | | | |
| | | | | | | | | |
| | Building Automatic System | | | | | | | |
| | BAS | | | Quantum | Sesuai Gambar | 466 | POINT | |

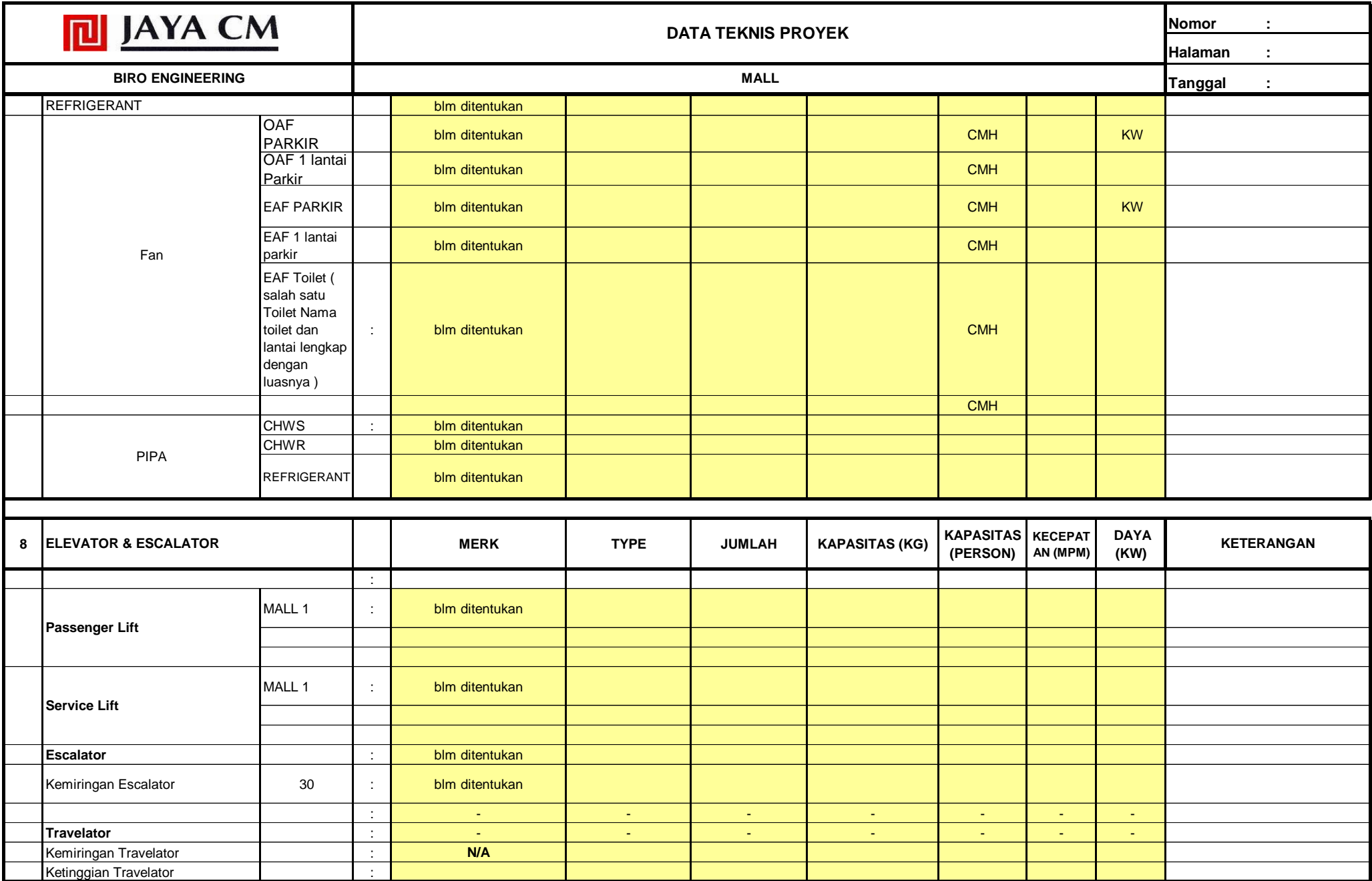
6 PLUMBING


| EQUIPMENT UTAMA | | | MERK | TYPE | JUMLAH | KAPASITAS | SATUAN | DAYA | SATUAN | KETERANGAN |
|----------------------------|-------------|---|-----------------|-------------------|--------|-----------|-----------|------|--------|------------|
| Kapasitas Ground Reservoir | | : | BETON | BETON | 1 | 940 | M3 | | | |
| Kapasitas Reservoir Atas | Mall 1 | : | Aquasave,Induro | FRP, Square Panel | 1 | 60-65 | M3 | | | |
| | Mall 2 | : | Aquasave,Induro | FRP, Square Panel | 1 | 60-65 | M3 | | | |
| | | : | | | | | | | | |
| | | : | | | | | | | | |
| Kapasitas RWT | | | BETON | BETON | 1 | 440 | M3 | | | |
| Kapasitas CWT | | | BETON | BETON | 1 | 500 | M3 | | | |
| Kapasitas WTP | | : | blm ditentukan | | | 300 | m3 / DAY | | | |
| Pompa WTP | | | blm ditentukan | | | 11 | m3 / jam | 9 | KW | |
| Pompa Air Bersih | | : | ARMSTRONG | VMS | 9 | 18 | m3/jam | 15 | KW | |
| Pompa Sumpit | SMP 1-4 | : | ARMSTRONG | SUBMERSIBLE | 8 | 300 | lpm | 2 | KW | |
| | SMP 5-7 | | ARMSTRONG | SUBMERSIBLE | 6 | 100 | lpm | 1,5 | KW | |
| | SMP 0C 1-4 | | ARMSTRONG | SUBMERSIBLE | 8 | 150 | LPM | 1,5 | KW | |
| Pompa Grease Trap | | : | ARMSTRONG | SUBMERSIBLE | 12 | 14,4 | M3 / jam | 3,7 | KW | |
| PIPA | AB | : | blm diajukan | PPR PN10 | | | | | | |
| | AK | : | blm diajukan | UPVC class 10 K | | | | | | |
| | ABK | : | blm diajukan | UPVC class 10 K | | | | | | |
| | ABD | : | blm diajukan | CIP | | | | | | |
| | AH | : | blm diajukan | UPVC | | | | | | |
| | RISER AB | : | blm diajukan | PPR PN 10 | | | | | | |
| | R. POMPA AB | : | blm diajukan | MEDIUM/SC 20 | | | | | | |
| VALVE | R. POMPA AB | | blm diajukan | | | | | | | |
| | PRV | | blm diajukan | | | | | | | |
| | INSTALASI | | blm diajukan | | | | | | | |
| PRV | | | blm diajukan | | | | | | | |
| STP | STP | : | blm ditentukan | EXTEDED AERATION | 1 | 430 | m3 / Hari | | | |
| | RECYCLING | : | blm ditentukan | | 1 | 300 | m3/hari | | | |

| | | | | | | | | | | | |
|---|------------------------|---------------------------|--------------------|-----------------------|--------|--------|-----------------|-----------|-----------------|------------|--|
|  | | | DATA TEKNIS PROYEK | | | | | | Nomor : _____ | | |
| | | | | | | | | | Halaman : _____ | | |
| BIRO ENGINEERING | | | MALL | | | | | | Tanggal : _____ | | |
| | | | | UKURAN | JUMLAH | | | | | | |
| | Ukuran Grease Trap | TYPICAL | : | 5.9 M X 2 M X 1,6 M | 2 | | | | | | |
| | | CENTRAL | | 8.25 M X 2 M X 1,6 M | 3 | | | | | | |
| | | OCEANORIU M | | 8.25 M X 2 M X 1,6 M | 4 | | | | | | |
| | Ukuran Sumpit | SMP | | 1,5 m x 1,5 m x 1,5 m | 4 | | | | | | |
| | Ukuran Sumpit | SWP | | 1,5 m x 1,5 m x 1,5 m | 3 | | | | | | |
| | Ukuran Sumpit | SMP - OC | : | 1,5 m x 1,5 m x 1,5 m | 4 | | | | | | |
| | | | | | | | | | | | |
| 6 | FIRE FIGHTING | | | | | | | | | | |
| | EQUIPMENT UTAMA | | | MERK | TYPE | JUMLAH | KAPASITAS (GPM) | DAYA (KW) | | KETERANGAN | |
| | Pompa Fire Fighting I | JOCKEY | : | blm ditentukan | | | | | | | |
| | | ELECTRIC | : | blm ditentukan | | | | | | | |
| | | DIESEL | : | blm ditentukan | | | | | | | |
| | Pompa Fire Fighting II | JOCKEY | : | blm ditentukan | | | | | | | |
| | | ELECTRIC | : | blm ditentukan | | | | | | | |
| | | DIESEL | : | blm ditentukan | | | | | | | |
| | Kapasitas Fire Tank | I | | BETON | BETON | 1 | 540 | M3 | | | |
| | | II | | | | | | | | | |
| | | | | K FACTOR | | | | | WARNA | | |
| | Springkler | PUBLIK TOTAL | : | blm ditentukan | | | | 5,6 | Merah | | |
| | | TENANT | : | blm ditentukan | | | | 5,6 | Merah | | |
| | | LANTAI DASAR | : | blm ditentukan | | | | 5,6 | Merah | | |
| | | 1 Lantai Parkir (B1) | | blm ditentukan | | | | | | | |
| | | PARKIRAN Total | | blm ditentukan | | | | | | | |
| | BOX HIDRANT | Total | | blm ditentukan | | | | | | | |
| | | Lantai dasar | | blm ditentukan | | | | | | | |
| | HYDRANT PILLAR TOTAL | | | blm ditentukan | | | | | | | |
| | SEAMESE | | | blm ditentukan | | | | | | | |
| | PIPA | FF RISER | | blm ditentukan | | | | | | | |
| | | FF SETELAH PRV | | blm ditentukan | | | | | | | |

| | | | | | | | | | | |
|--|-----------|---|--------------------|------|--------|-----------------|-----------|--|-----------------|--|
|  JAYA CM | | | DATA TEKNIS PROYEK | | | | | | Nomor : _____ | |
| | | | | | | | | | Halaman : _____ | |
| BIRO ENGINEERING | | | MALL | | | | | | Tanggal : _____ | |
| VALVE | R. POMPA | | blm ditentukan | | | | | | | |
| | INSTALASI | | blm ditentukan | | | | | | | |
| | PRV | | blm ditentukan | | | | | | | |
| MCV | | | blm ditentukan | | | | | | | |
| BCV | | | blm ditentukan | | | | | | | |
| PRV | | | blm ditentukan | | | | | | | |
| | | | | | | | | | | |
| | | | MERK | TYPE | JUMLAH | KAPASITAS (CMH) | DAYA (KW) | | | |
| Fan | SPF | : | blm ditentukan | | | | | | | |

[illegible]



| | | | | | | | | |
|---|---------|---|---|------|--------|-----------------|-----------------------------------|---|
|  | | | DATA TEKNIS PROYEK | | | | Nomor : Halaman : Tanggal : | |
| BIRO ENGINEERING | | | MALL | | | | | |
| 9 | GEN SET | | MERK | TYPE | JUMLAH | KAPASITAS (KVA) | Keterangan | Bila lebih dari 1 type rinci masing-masing type dan jumlahnya |
| | Gen Set | : | MERK MESINNYA BUKAN SUPPLIER (EX, MITSUBISHI, PERKIN DLL) | | 3 | | | |
| 10 | GONDOLA | | MERK | TYPE | JUMLAH | KAPASITAS (KG) | Keterangan | Bila lebih dari 1 type rinci masing-masing type dan jumlahnya |
| | GONDOLA | : | diisi aplikator | | | | Masih Pengajuan Material | |
| 11 | Gas | | MERK | TYPE | JUMLAH | KAPASITAS (KG) | Keterangan | Bila lebih dari 1 type rinci masing-masing type dan jumlahnya |
| | Gas | : | diisi aplikator | | | | Masih Pengajuan Material | |