

**PERUSAHAAN DAERAH AIR MINUM  
SURYA SEMBADA  
PEMERINTAH KOTA SURABAYA**



**RENCANA ANGGARAN BIAYA  
PEKERJAAN BONGKAR PASANG STOP KRAN &  
PEMINDAHAN LETAK METER  
SURABAYA  
TAHUN 2024**

| REVISI       |                      |  |  |
|--------------|----------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Dibuat oleh, | Surios Ramisda       |  |                                                                                       |
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| Diperiksa,   | Robby Achmadi        |  |                                                                                       |
| Diteliti,    | Mochammad Arfandi    |  |                                                                                       |
| Diteliti,    | Pahala Satriawan     |  |                                                                                       |
| Menyetujui,  | Mochammad Arfandi    |  |                                                                                       |
| Menyetujui,  | Agung Wurdijanto, ST |  |                                                                                       |
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RENCANA ANGGARAN BIAYA  
PEKERJAAN BONGKAR PASANG STOP KRAN & PEMINDAHAN LETAK METER

| NO                                    | URAIAN                                                | SATUAN | KODE          | VOLUME | HARGA SATUAN<br>(Rp.) | JUMLAH HARGA<br>(Rp.) |
|---------------------------------------|-------------------------------------------------------|--------|---------------|--------|-----------------------|-----------------------|
| <b>BONGKAR &amp; PASANG STOP KRAN</b> |                                                       |        |               |        |                       |                       |
| 1                                     | <b>Bongkar &amp; Pasang Stop Kran Kuningan 3/4"</b>   |        |               |        |                       |                       |
|                                       | - Persiapan, pembersihan & pengukuran                 | set    | H.SP.0002     | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|                                       | - BBM Peralite                                        | liter  | S.MUM.0037    | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|                                       | <b>Jasa :</b>                                         |        |               |        |                       |                       |
|                                       | - Bongkar Stop Kran Kuningan 3/4"                     | set    | H.PIP.11.35   | 1.00   | Rp 10,957.78          | Rp 10,957.78          |
|                                       | - Pasang Stop Kran Kuningan 3/4"                      | set    | H.PIP.11.36   | 1.00   | Rp 18,898.75          | Rp 18,898.75          |
|                                       | - Pasang Segel                                        | bh     | S.MUM.0470    | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|                                       | <b>Material :</b>                                     |        |               |        |                       |                       |
|                                       | - Gate Valve Kuningan 3/4"                            | bh     | S.PIP.0385    | 1.00   | Rp 112,840.00         | Rp 112,840.00         |
|                                       |                                                       |        |               |        |                       | Rp 177,186.78         |
|                                       |                                                       |        |               |        |                       | Rp 178,000.00         |
| 2                                     | <b>Bongkar &amp; Pasang Stop Kran Kuningan 1"</b>     |        |               |        |                       |                       |
|                                       | - Persiapan, pembersihan & pengukuran                 | set    | H.SP.0002     | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|                                       | - BBM Peralite                                        | liter  | S.MUM.0037    | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|                                       | <b>Jasa :</b>                                         |        |               |        |                       |                       |
|                                       | - Bongkar & Pasang Stop Kran Kuningan 1"              | set    | H.PIP.11.37   | 1.00   | Rp 13,974.58          | Rp 13,974.58          |
|                                       | - Pasang Stop Kran Kuningan 1"                        | set    | H.PI.03.01.40 | 1.00   | Rp 21,915.55          | Rp 21,915.55          |
|                                       | - Pasang Segel                                        | bh     | S.MUM.0470    | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|                                       | <b>Material :</b>                                     |        |               |        |                       |                       |
|                                       | - Gate Valve Kuningan Ukuran 1 Inchi                  | bh     | S.PIP.0383    | 1.00   | Rp 249,600.00         | Rp 249,600.00         |
|                                       |                                                       |        |               |        |                       | Rp 319,980.38         |
|                                       |                                                       |        |               |        |                       | Rp 320,000.00         |
| 3                                     | <b>Bongkar &amp; Pasang Stop Kran Kuningan 1 1/2"</b> |        |               |        |                       |                       |
|                                       | - Persiapan, pembersihan & pengukuran                 | set    | H.SP.0002     | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|                                       | - BBM Peralite                                        | liter  | S.MUM.0037    | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|                                       | <b>Jasa :</b>                                         |        |               |        |                       |                       |
|                                       | - Bongkar Stop Kran PVC 1 1/2"                        | set    | H.PIP.11.39   | 1.00   | Rp 16,920.92          | Rp 16,920.92          |
|                                       | - Pasang Stop Kran PVC 1 1/2"                         | set    | H.SP.0877     | 1.00   | Rp 25,187.80          | Rp 25,187.80          |
|                                       | - Pasang Segel                                        | bh     | S.MUM.0470    | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|                                       | <b>Material :</b>                                     |        |               |        |                       |                       |
|                                       | - Gate Valve kuningan Ukuran 1 1/2 Inchi              | bh     | S.PIP.0382    | 1.00   | Rp 436,800.00         | Rp 436,800.00         |
|                                       |                                                       |        |               |        |                       | Rp 513,398.97         |
|                                       |                                                       |        |               |        |                       | Rp 514,000.00         |
| 4                                     | <b>Bongkar &amp; Pasang Gate Valve Kuningan 2"</b>    |        |               |        |                       |                       |
|                                       | - Persiapan, pembersihan & pengukuran                 | set    | H.SP.0002     | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|                                       | - BBM Peralite                                        | liter  | S.MUM.0037    | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|                                       | <b>Jasa :</b>                                         |        |               |        |                       |                       |
|                                       | - Bongkar Gate Valve Kuningan 2"                      | set    | H.PIP.11.41   | 1.00   | Rp 18,898.75          | Rp 18,898.75          |
|                                       | - Pasang Gate Valve Kuningan 2"                       | set    | H.PI.03.01.50 | 1.00   | Rp 218,893.27         | Rp 218,893.27         |
|                                       | - Pasang Segel                                        | bh     | S.MUM.0470    | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|                                       | <b>Material :</b>                                     |        |               |        |                       |                       |
|                                       | - Gate Valve Kuningan 2"                              | bh     | S.PIP.0384    | 1.00   | Rp 572,000.00         | Rp 572,000.00         |
|                                       |                                                       |        |               |        |                       | Rp 844,282.27         |
|                                       |                                                       |        |               |        |                       | Rp 845,000.00         |
| <b>PEMINDAHAN LETAK METER</b>         |                                                       |        |               |        |                       |                       |
| 1                                     | <b>Pindah letak meter 3/4" (maks 3m)</b>              |        |               |        |                       |                       |
|                                       | - Persiapan, pembersihan & Pengukuran                 | set    | H.SP.0002     | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|                                       | - BBM Peralite                                        | liter  | S.MUM.0037    | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|                                       | <b>Jasa:</b>                                          |        |               |        |                       |                       |
|                                       | - Bongkar Meter 3/4"                                  | set    | H.PIP.11.43   | 1.00   | Rp 10,957.78          | Rp 10,957.78          |
|                                       | - Pasang Meter 3/4"                                   | set    | H.PIP.11.44   | 1.00   | Rp 18,898.75          | Rp 18,898.75          |
|                                       | - Pasang Segel                                        | bh     | S.MUM.0470    | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|                                       | <b>Material :</b>                                     |        |               |        |                       |                       |
|                                       | - Pipa HDPE 3/4                                       | m      | S.PIP.0564    | 3.00   | Rp 10,880.00          | Rp 32,640.00          |
|                                       | - Elbow Female 3/4                                    | bh     | S.PIP.0266    | 2.00   | Rp 35,880.00          | Rp 71,760.00          |
|                                       | - Verloop Ring GI 3/4 x 1/2                           | bh     | S.PIP.0885    | 2.00   | Rp 8,410.00           | Rp 16,820.00          |
|                                       | - Rubber Pack 20                                      | bh     | S.PIP.0697    | 1.00   | Rp 1,320.00           | Rp 1,320.00           |
|                                       | - Double GI Nipple 3/4                                | bh     | S.PIP.0252    | 2.00   | Rp 13,000.00          | Rp 26,000.00          |
|                                       | - Coupling GI 1/2                                     | bh     | S.PIP.1196    | 1.00   | Rp 88,400.00          | Rp 88,400.00          |
|                                       | <b>Galian :</b>                                       |        |               |        |                       |                       |
|                                       | - Bongkar Rabat                                       | m3     | H.SP.0016     | 0.03   | Rp 232,490.40         | Rp 6,974.71           |
|                                       | - Galian Tanah Keras                                  | m3     | H.SP.0015     | 0.12   | Rp 153,652.88         | Rp 18,438.35          |
|                                       | - Buang Sisa Galian                                   | m3     | H.SP.0547     | 0.12   | Rp 50,611.60          | Rp 6,073.39           |
|                                       | <b>Rekondisi :</b>                                    |        |               |        |                       |                       |
|                                       | - Urugan Tanah Kembali                                | m3     | H.SP.0585     | 0.15   | Rp 18,309.79          | Rp 2,746.47           |
|                                       |                                                       |        |               |        |                       | Rp 335,519.69         |
|                                       |                                                       |        |               |        |                       | Rp 336,000.00         |





RENCANA ANGGARAN BIAYA  
PEKERJAAN BONGKAR PASANG STOP KRAN & PEMINDAHAN LETAK METER

| NO | URAIAN                                     | SATUAN | KODE        | VOLUME | HARGA SATUAN<br>(Rp.) | JUMLAH HARGA<br>(Rp.) |
|----|--------------------------------------------|--------|-------------|--------|-----------------------|-----------------------|
| 2  | Meninggikan letak meter air 3/4" (maks 1m) |        |             |        |                       |                       |
|    | - Persiapan, pembersihan & Pengukuran      | set    | H.SP.0002   | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|    | - BBM Peralite                             | liter  | S.MUM.0037  | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|    | Jasa:                                      |        |             |        |                       |                       |
|    | - Bongkar Meter 3/4"                       | set    | H.PIP.11.43 | 1.00   | Rp 10,957.78          | Rp 10,957.78          |
|    | - Pasang Meter 3/4"                        | set    | H.PIP.11.44 | 1.00   | Rp 18,898.75          | Rp 18,898.75          |
|    | - Pasang Segel                             | bh     | S.MUM.0470  | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|    | Material :                                 |        |             |        |                       |                       |
|    | - Pipa HDPE 3/4                            | m      | S.PIP.0564  | 2.00   | Rp 10,880.00          | Rp 21,760.00          |
|    | - Elbow Female 3/4                         | bh     | S.PIP.0266  | 2.00   | Rp 35,880.00          | Rp 71,760.00          |
|    | - Verloop Ring GI 3/4 x 1/2                | bh     | S.PIP.0885  | 2.00   | Rp 8,410.00           | Rp 16,820.00          |
|    | - Rubber Pack 20                           | bh     | S.PIP.0697  | 2.00   | Rp 1,320.00           | Rp 2,640.00           |
|    | - Double GI Nipple 3/4                     | bh     | S.PIP.0252  | 2.00   | Rp 13,000.00          | Rp 26,000.00          |
|    | - Coupling GI 1/2                          | bh     | S.PIP.0824  | 2.00   | Rp 13,440.00          | Rp 26,880.00          |
|    | - Sock 3/4                                 | bh     | S.PIP.0777  | 1.00   | Rp 5,930.00           | Rp 5,930.00           |
|    | Galian :                                   |        |             |        |                       |                       |
|    | - Bongkar Rabat                            | m3     | H.SP.0016   | 0.20   | Rp 232,490.40         | Rp 46,498.08          |
|    | Rekondisi :                                |        |             |        |                       |                       |
|    | - Plesteran                                | m3     | H.SP.0109   | 0.15   | Rp 88,394.35          | Rp 13,259.15          |
|    |                                            |        |             |        |                       | Rp 295,894.01         |
|    |                                            |        |             |        |                       | Rp 296,000.00         |
| 3  | Merendahkan letak meter 3/4" (maks 30cm)   |        |             |        |                       |                       |
|    | - Persiapan, pembersihan & Pengukuran      | set    | H.SP.0002   | 1.00   | Rp 11,604.25          | Rp 11,604.25          |
|    | - BBM Peralite                             | liter  | S.MUM.0037  | 1.89   | Rp 10,400.00          | Rp 19,656.00          |
|    | Jasa:                                      |        |             |        |                       |                       |
|    | - Bongkar Meter 3/4"                       | set    | H.PIP.11.43 | 1.00   | Rp 10,957.78          | Rp 10,957.78          |
|    | - Pasang Meter 3/4"                        | set    | H.PIP.11.44 | 1.00   | Rp 18,898.75          | Rp 18,898.75          |
|    | - Pasang Segel                             | bh     | S.MUM.0470  | 1.00   | Rp 3,230.00           | Rp 3,230.00           |
|    | Material :                                 |        |             |        |                       |                       |
|    | - Elbow Female 3/4                         | bh     | S.PIP.0266  | 2.00   | Rp 35,880.00          | Rp 71,760.00          |
|    | - Verloop Ring GI 3/4 x 1/2                | bh     | S.PIP.0885  | 2.00   | Rp 8,410.00           | Rp 16,820.00          |
|    | - Rubber Pack 20                           | bh     | S.PIP.0697  | 2.00   | Rp 1,320.00           | Rp 2,640.00           |
|    | - Double GI Nipple 3/4                     | bh     | S.PIP.0252  | 2.00   | Rp 13,000.00          | Rp 26,000.00          |
|    | - Coupling GI 1/2                          | bh     | S.PIP.0824  | 2.00   | Rp 13,440.00          | Rp 26,880.00          |
|    | Galian :                                   |        |             |        |                       |                       |
|    | - Bongkar Rabat                            | m3     | H.SP.0016   | 0.03   | Rp 232,490.40         | Rp 6,974.71           |
|    |                                            |        |             |        |                       | Rp 215,421.49         |
|    |                                            |        |             |        |                       | Rp 216,000.00         |

Surabaya, 27 Juli 2024

Diteliti,  
Manager PTB

  
Pahala Satriawan  
NIP. 1.05.01309

Diteliti,  
Manager PTT

  
Mochammad Arfandi  
NIP. 1.96.01035

Diperiksa,  
Supervisor P3BB

  
Robby Achmadi  
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Diperiksa,  
Supervisor P3BT

  
Agus Martono  
NIP. 1.06.01379

Dibuat,  
Staff Senior PTT

  
Surios Ramisda  
NIP. 1.17.01675

Menyetujui,  
Plh. Manager Senior  
Pelayanan Wilayah Timur

  
Mochammad Arfandi  
NIP. 1.96.01035

Menyetujui,  
Manager Senior  
Pelayanan Wilayah Barat

  
Agus Wurdijanto, ST  
NIP. 1.98.01199

Mengetahui,  
Direktur Pelayanan

  
Agung Priadhi, SE



## ANALISA HARGA SATUAN SKA TAHUN 2024

|                    |                                                  |        |            |            |                   |
|--------------------|--------------------------------------------------|--------|------------|------------|-------------------|
| <b>H.PIP.11.35</b> | <b>Pembongkaran Stop Kran Kuningan 3/4 Inchi</b> |        | <b>Set</b> |            | <b>10,957.78</b>  |
| S.UPH.0032         | Mandor                                           | 0.0038 | OH         | 167,590.00 | 628.46            |
| S.UPH.0181         | Tukang Pipa                                      | 0.0313 | OH         | 152,590.00 | 4,768.44          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0375 | OH         | 148,290.00 | 5,560.88          |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.37</b> | <b>Pembongkaran Stop Kran Kuningan 1 Inchi</b>   |        | <b>Set</b> |            | <b>13,974.58</b>  |
| S.UPH.0032         | Mandor                                           | 0.0050 | OH         | 167,590.00 | 837.95            |
| S.UPH.0181         | Tukang Pipa                                      | 0.0375 | OH         | 152,590.00 | 5,722.13          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0500 | OH         | 148,290.00 | 7,414.50          |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.39</b> | <b>Pembongkaran Stop Kran PVC 1 1/2 Inchi</b>    |        | <b>Set</b> |            | <b>16,920.92</b>  |
| S.UPH.0032         | Mandor                                           | 0.0056 | OH         | 167,590.00 | 942.69            |
| S.UPH.0181         | Tukang Pipa                                      | 0.0500 | OH         | 152,590.00 | 7,629.50          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0563 | OH         | 148,290.00 | 8,348.73          |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.41</b> | <b>Pembongkaran Gate Valve Kuningan 2 Inchi</b>  |        | <b>Set</b> |            | <b>18,898.75</b>  |
| S.UPH.0032         | Mandor                                           | 0.0063 | OH         | 167,590.00 | 1,047.44          |
| S.UPH.0181         | Tukang Pipa                                      | 0.0563 | OH         | 152,590.00 | 8,583.19          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0625 | OH         | 148,290.00 | 9,268.13          |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.36</b> | <b>Pemasangan Stop Kran Kuningan 3/4 Inchi</b>   |        | <b>Set</b> |            | <b>18,898.75</b>  |
| S.UPH.0032         | Mandor                                           | 0.0063 | OH         | 167,590.00 | 1,047.44          |
| S.UPH.0181         | Tukang Pipa                                      | 0.0563 | OH         | 152,590.00 | 8,583.19          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0625 | OH         | 148,290.00 | 9,268.13          |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.38</b> | <b>Pemasangan Stop Kran Kuningan 1 Inchi</b>     |        | <b>Set</b> |            | <b>21,915.55</b>  |
| S.UPH.0032         | Mandor                                           | 0.0075 | OH         | 167,590.00 | 1,256.93          |
| S.UPH.0181         | Tukang Pipa                                      | 0.0625 | OH         | 152,590.00 | 9,536.88          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0750 | OH         | 148,290.00 | 11,121.75         |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.40</b> | <b>Pemasangan Stop Kran PVC 1 1/2 Inchi</b>      |        | <b>Set</b> |            | <b>25,187.80</b>  |
| S.UPH.0032         | Mandor                                           | 0.0083 | OH         | 167,590.00 | 1,391.00          |
| S.UPH.0181         | Tukang Pipa                                      | 0.0750 | OH         | 152,590.00 | 11,444.25         |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0833 | OH         | 148,290.00 | 12,352.56         |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.42</b> | <b>Pemasangan Gate Valve Kuningan 2 Inchi</b>    |        | <b>Set</b> |            | <b>218,893.27</b> |
| S.UPH.0032         | Mandor                                           | 0.0700 | OH         | 167,590.00 | 11,731.30         |
| S.UPH.0181         | Tukang Pipa                                      | 0.4830 | OH         | 152,590.00 | 73,700.97         |
| S.UPH.0060         | Pembantu Tukang                                  | 0.9000 | OH         | 148,290.00 | 133,461.00        |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.43</b> | <b>Pembongkaran Meter 3/4 Inchi</b>              |        | <b>Set</b> |            | <b>10,957.78</b>  |
| S.UPH.0032         | Mandor                                           | 0.0038 | OH         | 167,590.00 | 628.46            |
| S.UPH.0181         | Tukang Pipa                                      | 0.0313 | OH         | 152,590.00 | 4,768.44          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0375 | OH         | 148,290.00 | 5,560.88          |
|                    |                                                  |        |            |            |                   |
| <b>H.PIP.11.44</b> | <b>Pemasangan Meter 3/4 Inchi</b>                |        | <b>Set</b> |            | <b>18,898.75</b>  |
| S.UPH.0032         | Mandor                                           | 0.0063 | OH         | 167,590.00 | 1,047.44          |
| S.UPH.0181         | Tukang Pipa                                      | 0.0563 | OH         | 152,590.00 | 8,583.19          |
| S.UPH.0060         | Pembantu Tukang                                  | 0.0625 | OH         | 148,290.00 | 9,268.13          |