

| ASOSIY TO'PLAMNING ISHCHI CHIZMALARI RO'YXATI |                                                                                         |      |
|-----------------------------------------------|-----------------------------------------------------------------------------------------|------|
| Varaq                                         | Nomi                                                                                    | Izoh |
| 1                                             | Umumiy ma'lumot                                                                         |      |
| 2                                             | Hududning tashqi elektr yoritish tarmoqlarini rejalashtirish                            |      |
| 3                                             | Hududning tashqi 0.4kV elektr tarmoqlarini rejalashtirish                               |      |
| 4                                             | Elektr tarmog'ining bir chiziqli sxemasi.                                               |      |
| 5                                             | TP ni yerlashtirish chizmasi                                                            |      |
| 6                                             | EX-518 ulanish sxemasi va tayanch telefon stantsiyasining elektr energiyasini o'lchash. |      |
|                                               |                                                                                         |      |
|                                               |                                                                                         |      |
|                                               |                                                                                         |      |
|                                               |                                                                                         |      |

| BELGILANISH       | NOMI                                               | IZOH |
|-------------------|----------------------------------------------------|------|
|                   | Malumot hujjatlari                                 |      |
| PUE-2011y         | Elektr o'rnatish qoidalari.                        |      |
| SHNQ 2.04.17-2019 | Turar joy va jamoat binolarinig elektr jihozlari   |      |
| SHNK 3.05.06-09   | “Elektr qurilmalarini montaj qilish”               |      |
| SHNK 2.04.01-19   | “Elektr ta’minoti tizimlari. Loyihalash qoidalari” |      |
| KMK 2.01.02-04    | “Yong‘in xavfsizligi”                              |      |
|                   | Qo'shilgan hujjatlar.                              |      |
| ГОСТ 21.110-2013  | Uskuna spetsifikatsiyasi.                          |      |

Loyiha bosh muhandisi:  Ismoilov

Elektr ta'minoti loyihasi 0,4 kV, ASKUE , shuningdek, hududni yoritish loyiha topshirig'i asosida va PUE-2011, KMK 2.04.17-19 ,KMK 3.05.06-09,SHNK 2.04.01-19 va KMK 2.01.02-04 ga muvofiq amalga oshirildi.

Ushbu loyiha quyidagilarni nazarda tutadi:

3. Kabelning kesimi uzoq muddatli ruhsat etilgan oqim yuki va kuchlanishning pasayishi va zali qisqa tutashuvdagi oqimlarning uzilishi hisobiga asoslanib olinadi. Kabellarning markasi va uzunligiga qarab tanlangan.

5. Tashqi va ichki kirish tarmoqlari va hududni yoritish uchun kabellar tuproqning mumkin bo'lgan siljishlarini qoplash uchun etarli bo'lgan chegara bilan, yer tekislashdan 0,7 m chuqurlikda, xandaqqa yotqizilishi kerak.

**Izoh:**

Muhandislik tarmoqlari bilan kesishgan joylarda elektr tarmog'i kabeli diametri  $d=100\text{mm}$  asbest-tsement quvurlar ichidan olib o'tiladi.

Yer ishlarini bajarilishi jarayonida boshqa muhandislik tarmoqlari tashkilot vakillari taklif qilinadi.

|            |      |          |       |                                                                                       |     |                                                                                         |                                                                  |       |          |
|------------|------|----------|-------|---------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------|------------------------------------------------------------------|-------|----------|
|            |      |          |       |                                                                                       |     | Shift: TET                                                                              |                                                                  |       |          |
|            |      |          |       |                                                                                       |     | Paxtaobod tumani "Madaniyat" MFY dagi xududiy shifoxona binolarini mukammal ta'mirlash. |                                                                  |       |          |
| O'zq       | Dona | Varoq    | Nadok | Imzo                                                                                  | Kun |                                                                                         | Turi                                                             | Varoq | Varoqlar |
| LBM        |      | Ismoilov |       |  |     |                                                                                         | IL                                                               | 1     | 6        |
| Guruh rah. |      | Karimov  |       |  |     |                                                                                         |                                                                  |       |          |
| Bajardi    |      | Karimov  |       |  |     | Umumiy ma'lumotlar                                                                      | "Andijonfukaroloyiha"MCHJ Andijon shahri, Bobur shoh ko'chasi, 2 |       |          |



BOSH REJA BO'YICHA QAYDNOMA

| Bosh reja<br>tir  | Nomi                                               | Qavatlar soni | Soni         |
|-------------------|----------------------------------------------------|---------------|--------------|
| Mavjud binolar    |                                                    |               |              |
| 1                 | Shifoxona binosi                                   | 2.3           | 1            |
| 2                 | Xo'jalik binosi                                    | 1             | 1            |
| 3                 | Ko'mirxona                                         | 1             | 1            |
| 4                 | Transformator                                      | 1             | 1            |
| 5                 | Omborxona                                          | 1             | 1            |
| 6                 | Xo'jalikxona                                       | 1             | 1            |
| 7                 | Yer osti ombori                                    | 1             | 1            |
| 8                 | Qozonxona.kulxona                                  | 1             | 1            |
| 9                 | Qorovulxona                                        | 1             | 1            |
| 10                | Yonginga qarshi rezervuar 100.0m3                  | -             | 1            |
| 11                | Suv minorasi                                       | -             | 1            |
| 12                | Antena                                             | -             | 1            |
| 13                | Chiqindi tashlash maydonchasi                      | -             | 1            |
| 14                | Navbatchilar dam olish binosi                      | 1             | 1            |
| 15                | Metal darvozalar h-1.6m                            | -             | 3            |
| 16                | Metal panjaralarlar h-1.6m                         | -             | 104.0<br>p/m |
| 17                | Favvoralar                                         | -             | 2            |
| Loyihaviy binolar |                                                    |               |              |
| 18                | Tozalash inshooti setkasi bilan<br>Oqava suv uchun | -             | 50.0<br>p/m  |
|                   | a) LOS-25                                          | -             | 1            |
|                   | b) Konteyner                                       | -             | 1            |
|                   | v) Oqava suv uchun o'ra-50.0m3                     | -             | 1            |
| 19                | Beton devor kasetali h-2.0m                        | -             | 48.0<br>p/m  |
| 20                | Yonginga qarshi shit                               | -             | 1            |
| 21                | Avtoturargox                                       | -             | 25/25        |

Shartli belgilar:

  $h=3.5m$  -Balandligi  $h=3.5m$  bo'lgan tayanchga o'rnatilgan quyosh panelli LED yoritgich m. "ABS-90W5"

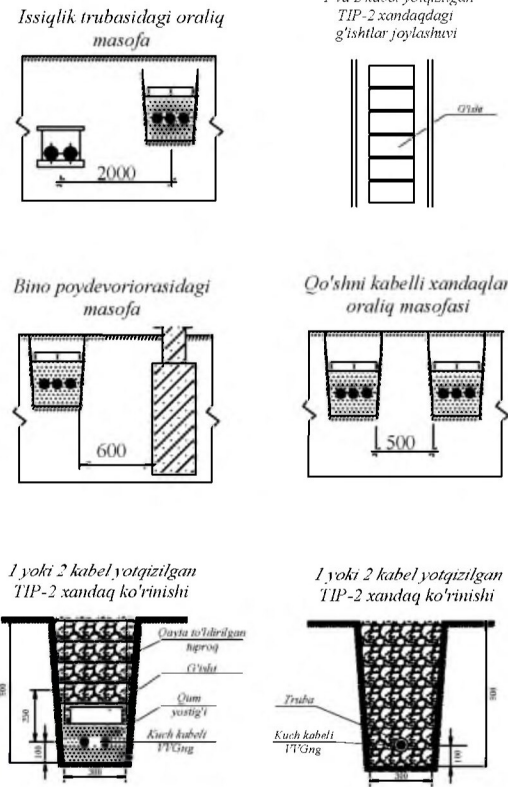
Umumiy ko'rinish  
Balandligi  $h=3.5m$  bo'lgan 90w quvvatga ega quyosh panelli "ABS-90W5" LED yoritgich tayanchi



|                                |  |  |  |  |                                                                                         |       |          |
|--------------------------------|--|--|--|--|-----------------------------------------------------------------------------------------|-------|----------|
| Shifr:                         |  |  |  |  | TET                                                                                     |       |          |
| O'zq Dona Varoq Nadok Inzo Kun |  |  |  |  | Paxtaobod tumani "Madaniyat" MFY dagi xududiy shifoxona binolarini mukammal ta'mirlash. |       |          |
| LBM Ismoilov                   |  |  |  |  | Turi                                                                                    | Varoq | Varoqlar |
| Guruh rah. Karimov             |  |  |  |  | IL                                                                                      | 2     | 6        |
| Bajardi Karimov                |  |  |  |  | Hududning tashqi elektr yoritish tarmoqlarini rejalashtirish                            |       |          |
|                                |  |  |  |  | "Andijonfukaroloyiha" MCHJ Andijon shahri, Bobur shoh ko'chasi, 2                       |       |          |



Kabellarni xandaqda yotqizish bo'yicha malumotlar



BOSH REJA BO'YICHA QAYDNOMA

| Bosh reja Lr             | Nomi                                            | Qavallar soni | Soni      |
|--------------------------|-------------------------------------------------|---------------|-----------|
| <b>Mavjud binolar</b>    |                                                 |               |           |
| 1                        | Shifoxona binosi                                | 2,3           | 1         |
| 2                        | Xo'jalik binosi                                 | 1             | 1         |
| 3                        | Ko'mirxona                                      | 1             | 1         |
| 4                        | Transformator                                   | 1             | 1         |
| 5                        | Omborxona                                       | 1             | 1         |
| 6                        | Xojatxona                                       | 1             | 1         |
| 7                        | Yer osti ombori                                 | 1             | 1         |
| 8                        | Qozonxona.kulxona                               | 1             | 1         |
| 9                        | Qorovulxona                                     | 1             | 1         |
| 10                       | Yonginga qarshi rezervuar 100,0m3               | -             | 1         |
| 11                       | Suv minorasi                                    | -             | 1         |
| 12                       | Antena                                          | -             | 1         |
| 13                       | Chiqindi tashlash maydonchasi                   | -             | 1         |
| 14                       | Navbatchilar dam olish binosi                   | 1             | 1         |
| 15                       | Metal darvozalar h-1.6m                         | -             | 3         |
| 16                       | Metal panjaralarlar h-1.6m                      | -             | 104.0 p/m |
| 17                       | Favvoralar                                      | -             | 2         |
| <b>Loyihaviy binolar</b> |                                                 |               |           |
| 18                       | Tozalash inshooti setkasi bilan Oqava suv uchun | -             | 50.0 p/m  |
|                          | a) LOS-25                                       | -             | 1         |
|                          | b) Konteyner                                    | -             | 1         |
|                          | v) Oqava suv uchun o'ra-50,0m3                  | -             | 1         |
| 19                       | Beton devor kasetali h-2.0m                     | -             | 48.0 p/m  |
| 20                       | Yonginga qarshi shit                            | -             | 1         |
| 21                       | Avtoturargox                                    | -             | 25/25     |

Shartli belgilar:

L1 Loyihalashtirilgan tashqi tarmoq kabel uzatish liniyasi-0,4 kV

Izoh:

Loyihada trassaning butun chizig'i bo'ylab kabellarni mexanik shikastlardan himoya qilish, g'isht yotqizish ko'zda tutilgan. Tashqi 0,4 kV elektr ta'minoti tarmog'i va hududni yoritish obodonlashtirish ishlari boshlanishidan avval yakunlanishi kerak. Binolarga elektr kabellarini kiritishda va mavjud muhandislik kommunikatsiyalari bilan kesishgan joylarda kabellarni Ø100 mm azbestsement quvurlari yotqizilishi kerak.

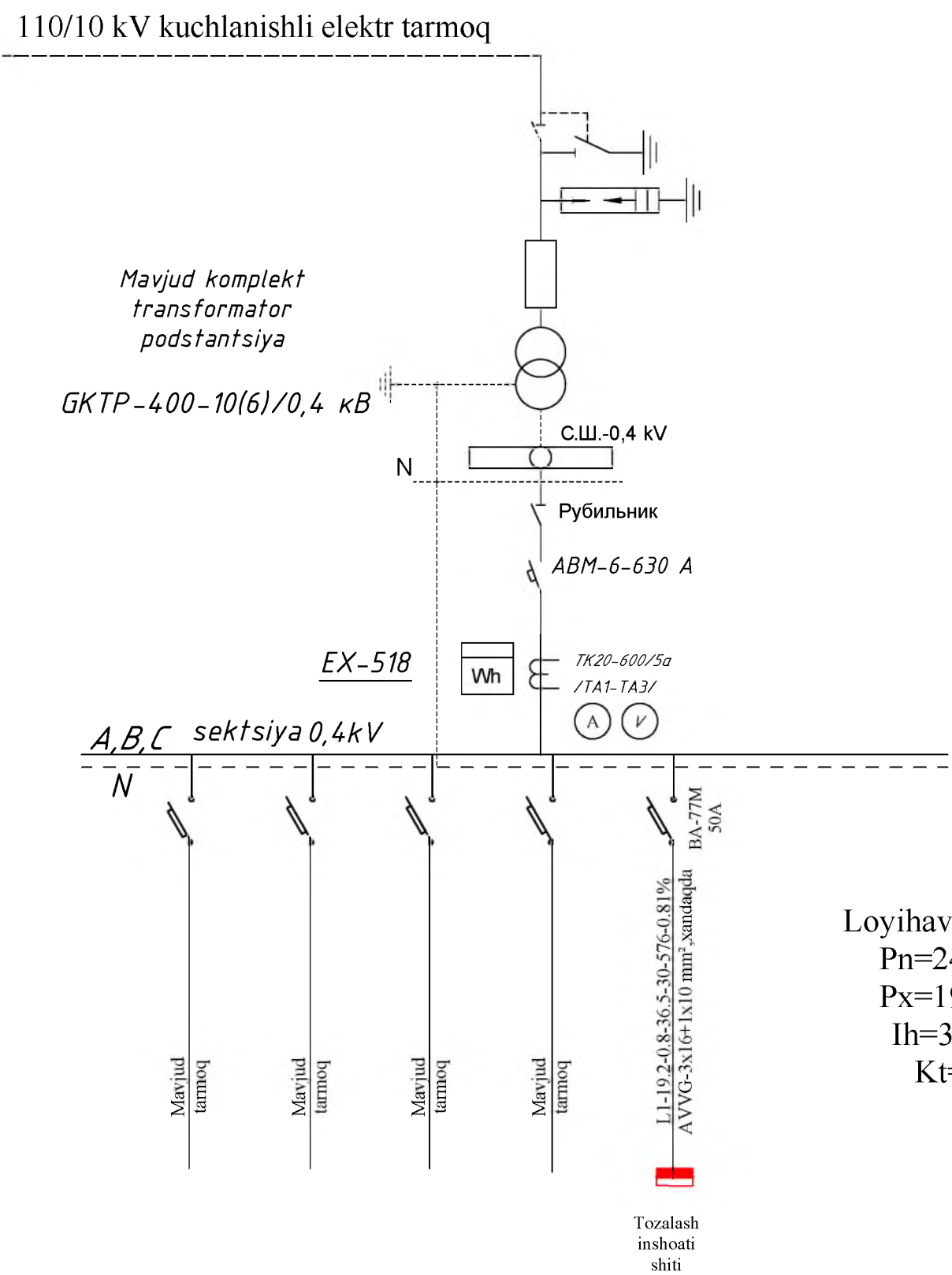
0.4 KV uchun kabel jurnali

| Ekspli-katsiya № | Belgila-nishi | Uchastok  |                         | Kabellar (simlar)ning markasi va kesim yuzi, mm² | Kablarni uzunligi, m | Hisobiy quvvat, kv | Kuchlanish isrofi, A |
|------------------|---------------|-----------|-------------------------|--------------------------------------------------|----------------------|--------------------|----------------------|
|                  |               | dan       | gacha                   |                                                  |                      |                    |                      |
| 1                | L1            | mavjud TP | Tozalash inshooti shiti | AVVG-1kV 3x16+1x10mm²                            | 30                   | 19.2               | 1.02                 |
| 2                |               |           |                         |                                                  |                      |                    |                      |
|                  |               |           |                         |                                                  |                      |                    |                      |
|                  |               |           |                         |                                                  |                      |                    |                      |

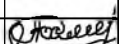
Shifr: TET

Paxtaobod tumani "Madaniyat" MFY dagi xududiy shifoxona binolarini mukammal ta'mirlash.

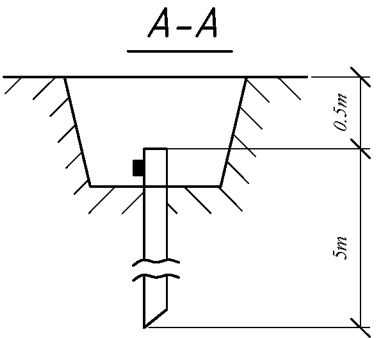
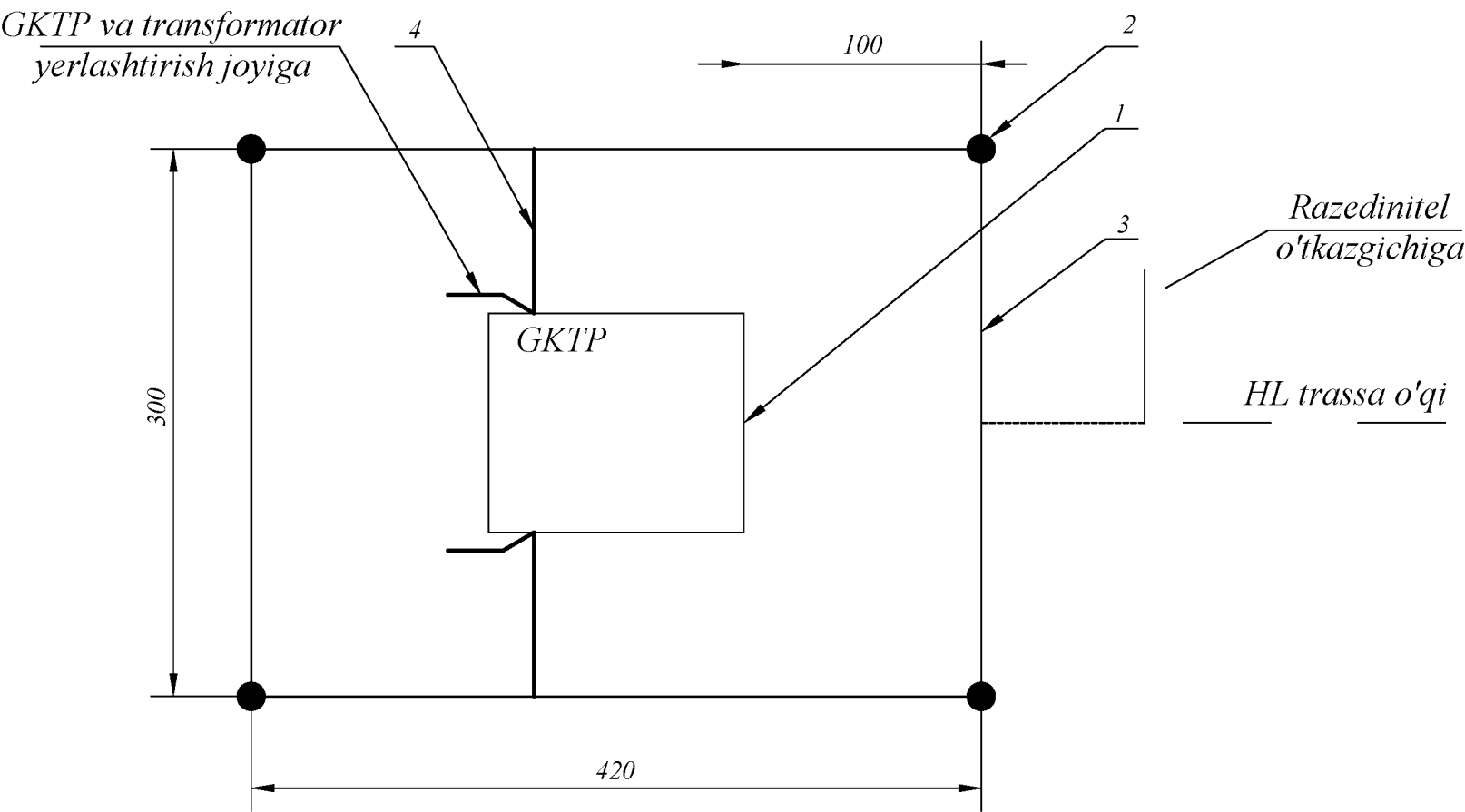
|            |          |       |       |      |     |                                                                   |       |          |
|------------|----------|-------|-------|------|-----|-------------------------------------------------------------------|-------|----------|
| O'zq       | Dona     | Varoq | Nedok | Imzo | Kun | Turi                                                              | Varoq | Varoqlar |
| LBM        | Ismoilov |       |       |      |     | IL                                                                | 3     | 6        |
| Guruh rah. | Karimov  |       |       |      |     | Hududning tashqi 0.4kV elektr tarmoqlarini rejalashtirish         |       |          |
| Bajardi    | Karimov  |       |       |      |     | "Andijonfukaroloyiha" MCHJ Andijon shahri, Bobur shoh ko'chasi, 2 |       |          |



Loyihaviy quvvat  
Pn=24.0 kvt  
Px=19.2 kvt  
Ih=36.5 A  
Kt=0.8

|            |      |          |       |                                                                                       |     |                                                                 |                                                                                         |       |          |  |
|------------|------|----------|-------|---------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------|----------|--|
|            |      |          |       |                                                                                       |     | Shifr:                                                          | TET                                                                                     |       |          |  |
|            |      |          |       |                                                                                       |     |                                                                 | Paxtaobod tumani "Madaniyat" MFY dagi xududiy shifoxona binolarini mukammal ta'mirlash. |       |          |  |
|            |      |          |       |                                                                                       |     |                                                                 |                                                                                         |       |          |  |
|            |      |          |       |                                                                                       |     |                                                                 |                                                                                         |       |          |  |
| O'zq       | Dona | Varoq    | Nedok | Imzo                                                                                  | Kun |                                                                 |                                                                                         |       |          |  |
| LBM        |      | Ismoilov |       |  |     |                                                                 | Turi                                                                                    | Varoq | Varoqlar |  |
|            |      |          |       |                                                                                       |     |                                                                 | IL                                                                                      | 4     | 6        |  |
| Guruh rah. |      | Sadikova |       |  |     |                                                                 |                                                                                         |       |          |  |
|            |      |          |       |                                                                                       |     | Elektr tarmog'ining bir chiziqli sxemasi.Hisoblagichlarni ulash | "Andijonfukaroloyiha"MCHJ Andijon shahri, Bobur shoh ko'chasi, 2                        |       |          |  |
| Bajardi    |      | Karimov  |       |  |     |                                                                 |                                                                                         |       |          |  |
|            |      |          |       |                                                                                       |     |                                                                 |                                                                                         |       |          |  |

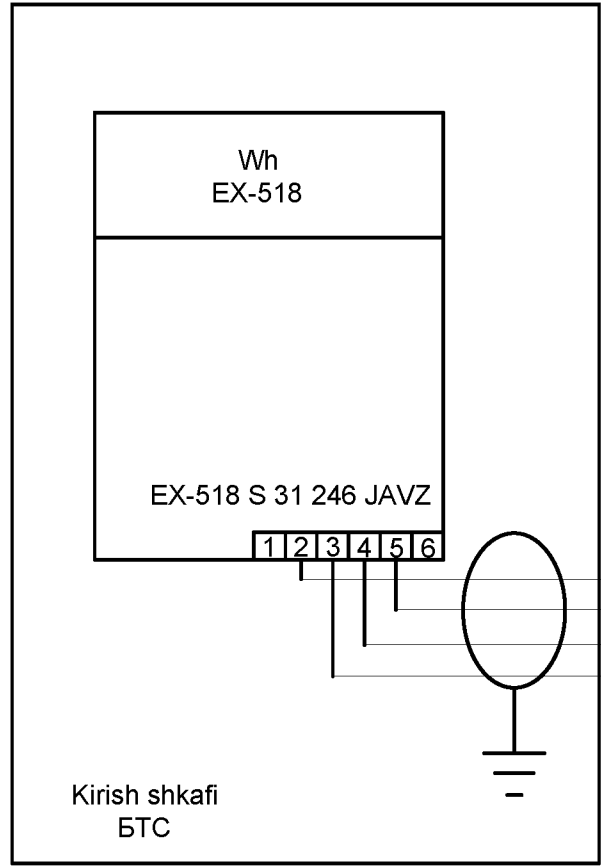
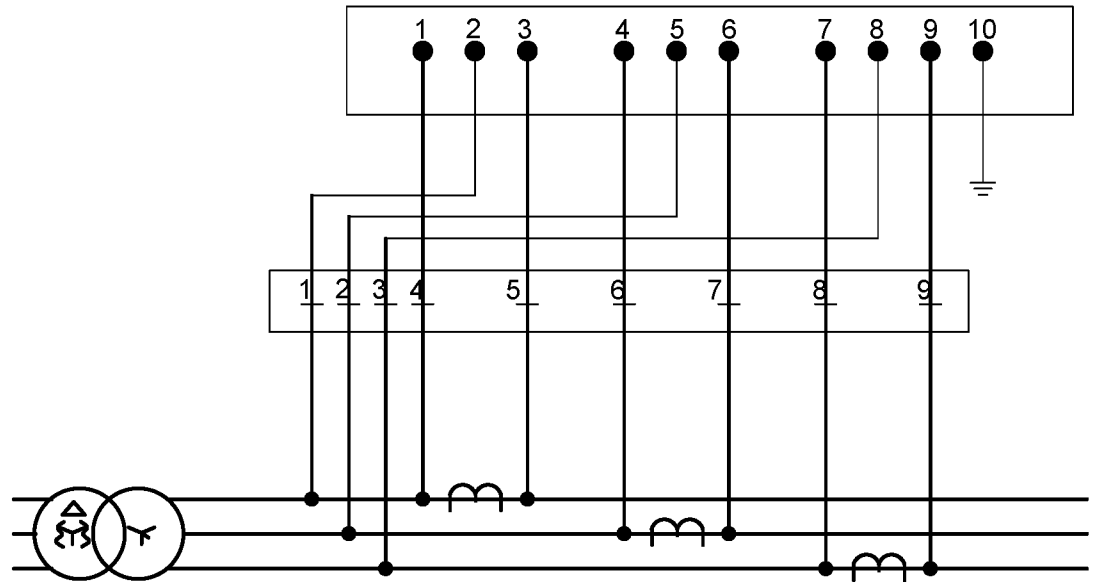
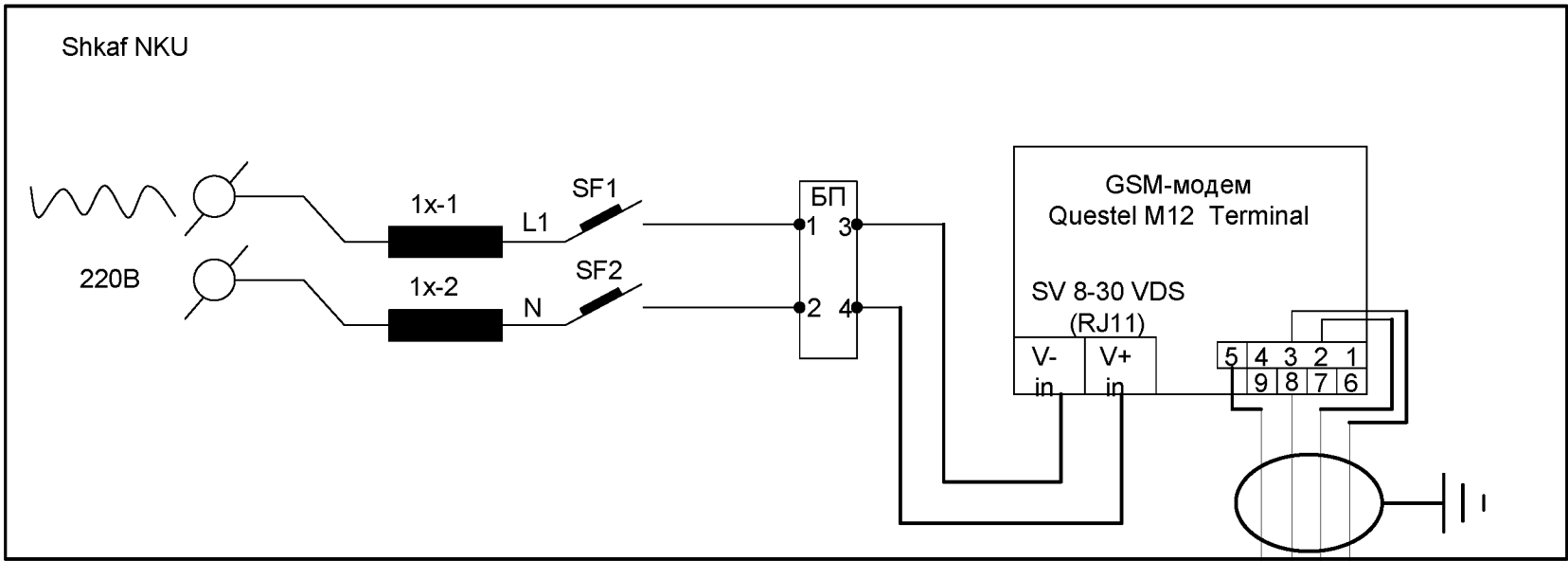
TP ni yerlashtirish chizmasi



Eslatma:  
YERlashtirgich qarshiligi 4,0 OM dan oshmasligi kerak, agar o'rnatishdan keyin o'lchangan qarshilik ko'proq bo'lsa, qo'shimcha elektrodni urish kerak.

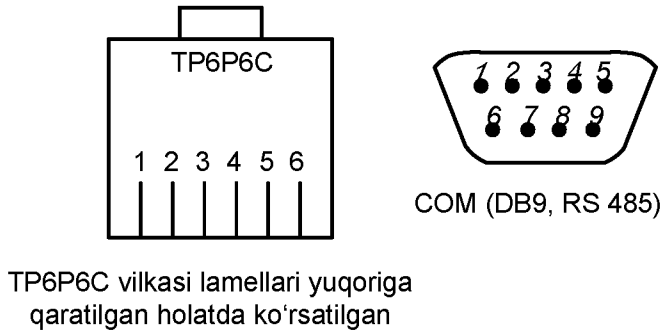
| Spetsifikatsiya |              |                                                         |         |            |
|-----------------|--------------|---------------------------------------------------------|---------|------------|
| Nº              | GOST yoki TU | NOMI                                                    | Birligi | miqdori    |
| 1               |              | GKTP-6(10) / 0.4                                        | dona    | 1          |
| 2               | GOST5781-82  | Vertikal yerlashtirgich $\Phi 12$ mm, uzunligi 5m       | m/kg    | 20 / 18    |
| 3               | GOST 103-88  | Gorizantal yerlashtirgich $\Phi 10$ mm, chuqurligi 0.5m | m/kg    | 22 / 13.57 |
| 4               | GOST2590-88  | Yerlashtirish o'tkazgichi $\Phi 10$ mm                  | m/kg    | 7 / 4.3    |
|                 |              |                                                         |         |            |

|            |      |          |       |                                                                                       |     |                                                                                         |  |                                                                  |       |          |
|------------|------|----------|-------|---------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------|--|------------------------------------------------------------------|-------|----------|
|            |      |          |       |                                                                                       |     | Shifr: TET                                                                              |  |                                                                  |       |          |
|            |      |          |       |                                                                                       |     | Paxtaobod tumani "Madaniyat" MFY dagi xududiy shifoxona binolarini mukammal ta'mirlash. |  |                                                                  |       |          |
| O'zq       | Dona | Varoq    | Nedok | Imzo                                                                                  | Kun |                                                                                         |  |                                                                  |       |          |
| LBM        |      | Ismoilov |       |  |     |                                                                                         |  | Turi                                                             | Varoq | Varoqlar |
| Guruh rah. |      | Karimov  |       |  |     |                                                                                         |  | IL                                                               | 5     | 6        |
| Bajardi    |      | Karimov  |       |  |     | TP ni yerlashtirish chizmasi                                                            |  | "Andijonfukaroloyiha"MCHJ Andijon shahri, Bobur shoh ko'chasi, 2 |       |          |
|            |      |          |       |                                                                                       |     |                                                                                         |  |                                                                  |       |          |



Spetsifikatsiya

| No | Tip, marka, GOST               | Nomi                                 | Soni  |  |
|----|--------------------------------|--------------------------------------|-------|--|
| 1  | EX-518                         | Elektr hisoblagich                   | 1dona |  |
| 2  |                                | Rozetka                              | 1dona |  |
| 3  |                                | Antenna                              | 1dona |  |
| 4  | GSM-модем Questel M12 Terminal | GSM-modem                            | 1dona |  |
| 5  |                                | Blok pitaniya telefon terminal uchun | 1dona |  |
| 6  | ППБ-4x2,5mm <sup>2</sup>       | Sim, o'tkazgich                      | 5m    |  |
| 7  | ППБ-4x2,5mm <sup>2</sup>       | Sim, o'tkazgich                      | 5m    |  |
| 8  |                                | Interfeys o'zgartirgich              | 1dona |  |
| 9  |                                |                                      |       |  |
|    |                                |                                      |       |  |



| TP6P6C                        | COM (DB9, RS 485)             |
|-------------------------------|-------------------------------|
| Lamella (kontakt) raqami      | Kontakt raqami                |
| 2 (GND) — tizim korpusi       | 5 (GND) — tizim korpusi       |
| 3 (A) — ma'lumot uzatish      | 3 (A) — ma'lumot uzatish      |
| 4 (B) — ma'lumot qabul qilish | 4 (B) — ma'lumot qabul qilish |
| 5 (RTS) — uzatishga so'rov    | 8 (RTS) — uzatishga so'rov    |

|            |      |          |       |                                                                                       |     |                                                                                         |  |                                                                  |       |          |
|------------|------|----------|-------|---------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------|--|------------------------------------------------------------------|-------|----------|
|            |      |          |       |                                                                                       |     | Shifr: TET                                                                              |  |                                                                  |       |          |
|            |      |          |       |                                                                                       |     | Paxtaobod tumani "Madaniyat" MFY dagi xududiy shifoxona binolarini mukammal ta'mirlash. |  |                                                                  |       |          |
| O'zq       | Dona | Varoq    | Nedok | Imzo                                                                                  | Kun |                                                                                         |  |                                                                  |       |          |
| LBM        |      | Ismoilov |       |  |     |                                                                                         |  | Turi                                                             | Varoq | Varoqlar |
| Guruh rah. |      | Karimov  |       |  |     |                                                                                         |  | IL                                                               | 6     | 6        |
|            |      |          |       |                                                                                       |     | EX-518 ulanish sxemasi va tayanch telefon stantsiyasining elektr energiyasini o'lchash. |  | "Andijonfukaroloyiha"MCHJ Andijon shahri, Bobur shoh ko'chasi, 2 |       |          |
| Bajardi    |      | Karimov  |       |  |     |                                                                                         |  |                                                                  |       |          |
|            |      |          |       |                                                                                       |     |                                                                                         |  |                                                                  |       |          |

| Vaziyati                  | Nomi va texnikaviy tavsifi                         | Hujjat, so'rov varagining xili, tamg'asi va belgisi | O'lchov birligi |     | Tayyorlovchi zavod kodi | Uskunalar kodi | Kod birligi so'm | Miqdori | Og'irlik birligi, kg |
|---------------------------|----------------------------------------------------|-----------------------------------------------------|-----------------|-----|-------------------------|----------------|------------------|---------|----------------------|
|                           |                                                    |                                                     | Nomi            | Kod |                         |                |                  |         |                      |
| Uskunalar va materiallar. |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
| Tashqi yoritish           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
| 1                         | Quyosh panelli LED yoritgichi                      | ABS-90W5                                            | dona            | 796 |                         |                |                  | 13      |                      |
| 2                         | Metall tayanch h-3.5m, quyidagilardan iborat:      |                                                     | dona            | 796 |                         |                |                  | 13      |                      |
|                           | a) Po'lat quvuri m.60x3mm                          |                                                     | m               | 006 |                         |                |                  | 1.3     |                      |
|                           | b) Po'lat quvuri m.76x3.5mm                        |                                                     | m               | 006 |                         |                |                  | 30      |                      |
|                           | d) Po'lat quvuri m.108x4mm                         |                                                     | m               | 006 |                         |                |                  | 26      |                      |
| 3                         | Tayanchlar poydevori uchun chuqur qazish           |                                                     | m³              | 113 |                         |                |                  | 1.7     |                      |
| 4                         | M-100 betondan tayyorlangan beton asosni o'rnatish |                                                     | m³              | 113 |                         |                |                  | 1.6     |                      |
| 5                         | Metiz                                              |                                                     | kg              | 166 |                         |                |                  | 3       |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
|                           | Elektr ta'minoti 0.4kV                             |                                                     |                 |     |                         |                |                  |         |                      |
| 1                         | Kabel, kesim yuzasi 3x16+1x10 mm²                  | AVVG-1kv                                            | m               | 006 |                         |                |                  | 30      |                      |
| 2                         | Mufta konsevaya kabel uchun                        | EPKT 0015                                           | dona            | 796 |                         |                |                  | 2       |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
|                           | Yer ishlari va materiallar                         |                                                     |                 |     |                         |                |                  |         |                      |
| 1                         | Xandaq qazish                                      |                                                     | m³              | 113 |                         |                |                  | 13      |                      |
| 2                         | Qayta to'ldirish                                   |                                                     | m³              | 113 |                         |                |                  | 9       |                      |
| 3                         | Qum                                                |                                                     | m³              | 113 |                         |                |                  | 3       |                      |
| 4                         | G'sht                                              | FOCT-103 76                                         | dona            | 796 |                         |                |                  | 350     |                      |
| 5                         | Asbest-sement quvur ,d=100mm ,l=2m                 | FOCT 1839-80                                        | m               | 006 |                         |                |                  | 4       |                      |
| 6                         | Asbest-sement quvur ,d=100mm ,l=4m                 | FOCT 1839-80                                        | m               | 006 |                         |                |                  | -       |                      |
| 7                         | Signal lentasi m.JICE-250                          |                                                     | m               | 006 |                         |                |                  | 40      |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
|                           |                                                    |                                                     |                 |     |                         |                |                  |         |                      |
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