

APPENDIXES

Appendix 2.2-1 The cable length by the laying year (km)

| Laying Year | | Sabail | Yasamal | Nasimi | Narimanov | Nizami | Khatai | Total |
|------------------------------|---------|--------|---------|--------|-----------|--------|--------|--------|
| 6 kV system | 1900-10 | 4.51 | 0 | 0 | 0 | 0 | 0 | 4.52 |
| | 1911-20 | 1.07 | 0 | 3.14 | 0 | 2.36 | 0 | 6.56 |
| | 1921-30 | 5.29 | 0.96 | 4.67 | 1.72 | 0 | 0 | 12.64 |
| | 1931-40 | 6.65 | 2.10 | 3.89 | 1.62 | 0 | 0 | 14.25 |
| | 1941-50 | 2.79 | 0 | 3.58 | 3.76 | 0 | 0 | 10.13 |
| | 1951-60 | 18.60 | 41.22 | 28.68 | 33.00 | 0 | 0 | 121.50 |
| | 1961-70 | 10.50 | 31.22 | 30.53 | 14.78 | 0 | 0.54 | 87.57 |
| | 1971-80 | 16.62 | 12.88 | 9.99 | 18.76 | 0.30 | 3.85 | 62.39 |
| | 1981-90 | 1.83 | 11.74 | 4.31 | 1.30 | 0 | 0.40 | 19.57 |
| | 1991-00 | 2.40 | 1.14 | 6.67 | 8.18 | 0 | 0.50 | 20.17 |
| Total | | 70.25 | 102.54 | 95.44 | 83.11 | 2.66 | 5.29 | 359.29 |
| 10 kV system | 1900-10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1911-20 | 0.26 | 0 | 0 | 0 | 0 | 0 | 0.26 |
| | 1921-30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1931-40 | 0 | 0 | 0 | 0 | 0 | 1.2 | 1.20 |
| | 1941-50 | 0 | 1.05 | 0 | 0 | 0.41 | 0 | 1.46 |
| | 1951-60 | 0 | 0 | 0.13 | 3.36 | 4.11 | 1.22 | 8.82 |
| | 1961-70 | 0.34 | 7.47 | 13.60 | 10.05 | 36.92 | 1.00 | 69.39 |
| | 1971-80 | 20.53 | 36.89 | 26.43 | 19.20 | 23.43 | 63.44 | 189.91 |
| | 1981-90 | 20.24 | 37.96 | 7.78 | 6.04 | 18.87 | 36.03 | 126.63 |
| | 1991-00 | 7.95 | 20.51 | 1.77 | 4.62 | 14.22 | 15.41 | 64.47 |
| Total | | 49.32 | 103.87 | 49.71 | 42.97 | 97.95 | 118.30 | 462.12 |
| 6 kV + 10 kV system | 1900-10 | 4.51 | 0 | 0 | 0 | 0 | 0 | 4.52 |
| | 1911-20 | 1.33 | 0 | 3.14 | 0 | 2.36 | 0 | 6.82 |
| | 1921-30 | 5.29 | 0.96 | 4.67 | 1.72 | 0 | 0 | 12.64 |
| | 1931-40 | 6.65 | 2.10 | 3.89 | 1.62 | 0 | 1.2 | 15.45 |
| | 1941-50 | 2.79 | 1.05 | 3.58 | 3.76 | 0.41 | 0 | 11.59 |
| | 1951-60 | 18.60 | 41.22 | 28.81 | 36.36 | 4.11 | 1.22 | 130.32 |
| | 1961-70 | 10.84 | 38.69 | 44.13 | 24.83 | 36.92 | 1.54 | 156.96 |
| | 1971-80 | 37.15 | 49.77 | 36.42 | 37.96 | 23.73 | 67.29 | 252.30 |
| | 1981-90 | 22.07 | 49.77 | 12.09 | 7.34 | 18.87 | 36.43 | 146.20 |
| | 1991-00 | 10.35 | 21.69 | 8.44 | 12.80 | 14.22 | 15.91 | 84.64 |
| Total | | 119.57 | 206.41 | 145.15 | 126.08 | 100.61 | 123.59 | 821.41 |

Appendix 2.3-1(1) 6kV & 10kV Underground Cables to be replaced under the M/P in Sabail

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (oct.m) | Commiss. Year | Priority | Remarks |
|---------------|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|---|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| (before 1960) | | | | | | | | | | | | | | |
| 1 | 1 | 1 | 1 | 628 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 486 | 486 | 1900 | I | ACB6,3x150:50(73);CB10,3x150(75) |
| 2 | 1 | 628 | 1 | 667 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 410 | 410 | 1900 | I | ACB10,3x150:50(73),230(83) |
| 3 | 1 | 667 | 88 | 1903 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 517 | 517 | 1900 | I | ACB10,3x150:230(83) |
| 4 | 1 | 1 | 88 | 1903 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 880 | 880 | 1910 | I | CB10,3x150:148(75) |
| 5 | 1 | 2 | 2 | 129 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 480 | 480 | 1910 | I | CB-63x95:25(10),CB-63x95:430(10), |
| 6 | 2 | 20 | 2 | 23 | 1 | 6.0 | | CB-6 | 3 x 95 | 377 | 377 | 1910 | I | |
| 7 | 2 | 129 | 88 | 119 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 1,365 | 1,365 | 1910 | I | ACB-6 3x185:520(59) |
| 8 | 1 | 10 | 1 | 13 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 371 | 371 | 1912 | I | ACB6,3x95:40(-) |
| 9 | 1 | 10 | 1 | 32 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 364 | 364 | 1912 | I | ACB6,3x95:40(-) |
| 10 | 3 | 25 | 2 | 34 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 330 | 330 | 1913 | I | ACB10,3x150:170(83) |
| 11 | 2 | 23 | 2 | 129 | 1 | 6.0 | | CB-6 | 3 x 95 | 1,203 | 1,203 | 1926 | I | |
| 12 | 1 | 1 | 1 | 2 | 2 | 6.0 | 1 | CB-6 | 3 x 95 | 760 | 1,520 | 1928 | I | CB-10,3x150:140m(19--) |
| 13 | 1 | 1 | 1 | 354 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 392 | 392 | 1928 | I | ACB-6,3x150:120m(61);92m(75) |
| 14 | 1 | 354 | 88 | 1903 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 644 | 644 | 1928 | I | ACB10,3x150:120(61) |
| 15 | 2 | 12 | 3 | 16 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 370 | 370 | 1929 | I | AAB10,3x185:0(88) |
| 16 | 2 | 12 | 2 | 966 | 1 | 6.0 | | CB-6 | 3x50 | 421 | 421 | 1929 | I | |
| 17 | 2 | 23 | 2 | 33 | 1 | 6.0 | | CB-6 | 3 x 95 | 345 | 345 | 1929 | I | |
| 18 | 3 | 25 | 3 | 966 | 1 | 6.0 | 3 | CB-6 | 3 x 70 | 20 | 20 | 1929 | I | ACB-10 3x150:50(83);CB-6 3x50:16(39);AAB-10 3x185 0(99) |
| 19 | 2 | 33 | 2 | 348 | 1 | 6.0 | | CB-6 | 3 x 95 | 120 | 120 | 1929 | I | |
| 20 | 2 | 20 | 2 | 53 | 1 | 6.0 | | CB-6 | 3 x 70 | 252 | 252 | 1930 | I | |
| 21 | 5 | 60 | 5 | 98 | 1 | 6.0 | | CB-6 | 3 x 95 | 260 | 260 | 1931 | I | |
| 22 | 5 | 60 | 5 | 98 | 1 | 10.0 | | CB-6 | 3 x 95 | 260 | 260 | 1931 | I | |
| 23 | 2 | 17 | 2 | 519 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 1,322 | 1,322 | 1932 | II | ACB-10 3 x 185:100(80) |
| 24 | 2 | 17 | 88 | 119 | 1 | 6.0 | 3 | CB-6 | 3 x 95 | 1,455 | 1,455 | 1932 | II | CB-6 3x185:21(61);ACB-6 3x150:50(83);ACB-10 3x150:50(83) |
| 25 | 2 | 23 | 2 | 519 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 200 | 200 | 1932 | II | CB-10 3x150:100(80) |
| 26 | 2 | 5 | 2 | 7 | 1 | 6.0 | | CB-6 | 3 x 70 | 427 | 427 | 1933 | II | |
| 27 | 2 | 5 | 2 | 129 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 614 | 614 | 1933 | II | CB-6 3 x 70:220(60);ACB-6 3 x 185:325(60) |
| 28 | 2 | 6 | 2 | 7 | 1 | 6.0 | | CB-6 | 3 x 70 | 272 | 272 | 1933 | II | |
| 29 | 2 | 7 | 2 | 330 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 250 | 250 | 1933 | II | CB-6 3x185:70(60) |
| 30 | 2 | 22 | 2 | 330 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 387 | 387 | 1933 | II | CB-6 3x185:70(33) |
| 31 | 2 | 22 | 2 | 23 | 1 | 6.0 | | CB-6 | 3 x 150 | 282 | 282 | 1933 | II | |
| 32 | 3 | 25 | 3 | 468 | 1 | 6.0 | 2 | ACB-10 | 3 x 95 | 298 | 298 | 1933 | II | ACB10,3x185:35(75);3x150:50(83) |
| 33 | 2 | 23 | 2 | 162 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 285 | 285 | 1936 | II | ACB-10 3x185:25(80) |
| 34 | 2 | 5 | 2 | 200 | 1 | 6.0 | | CB-6 | 3 x 70 | 367 | 367 | 1940 | II | |
| 35 | 2 | 5 | 2 | 201 | 1 | 6.0 | | CB-6 | 3 x 70 | 230 | 230 | 1940 | II | |
| 36 | 5 | 57 | 5 | 411 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 795 | 795 | 1948 | II | CB-6 3 x 185:350(49) |
| 37 | 5 | 57 | 5 | 98 | 1 | 6.0 | | CB-6 | 3 x 95 | 394 | 394 | 1948 | II | |
| 38 | 5 | 49 | 5 | 77 | 1 | 6.0 | | CB-6 | 3 x 95 | 340 | 340 | 1949 | II | |
| 39 | 5 | 49 | 5 | 411 | 1 | 6.0 | | CB-6 | 3 x 95 | 260 | 260 | 1949 | II | |
| 40 | 5 | 77 | 5 | 326 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 290 | 290 | 1949 | II | CB-6 3 x 70:150(49);ACB-6 3 x 150:320(60) |
| 41 | 5 | 77 | 5 | 411 | 1 | 6.0 | | CB-6 | 3 x 95 | 150 | 150 | 1949 | II | |
| 42 | 1 | 13 | 1 | 628 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 115 | 115 | 1950 | II | ACB10,3x150:50(73),15(91) |
| 43 | 1 | 628 | 88 | 1903 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 450 | 450 | 1950 | II | ACB10,3x150:50(73) |
| 44 | 2 | 8 | 2 | 329 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 855 | 855 | 1952 | III | ACB-6 3x185:115(61);AAB1-10 3x95:350(80) |
| 45 | 2 | 291 | 2 | 743 | 1 | 6.0 | 3 | CB-6 | 3 x 185 | 173 | 173 | 1952 | III | ACB-6 3x185:21(61);ACB-10 3x185:7(80);ACB-10 3x95:350(80) |
| 46 | 2 | 573 | 2 | 743 | 1 | 6.0 | 2 | CB-6 | 3 x 185 | 567 | 567 | 1952 | III | CB-10 3 x 150:180(73);ACB-10 3 x 185:7(78) |
| 47 | 2 | 6 | 2 | 462 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 65 | 65 | 1954 | III | ACB-6 3x185:30(64) |
| 48 | 2 | 11 | 2 | 462 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 558 | 558 | 1954 | III | ACB-6 3x185:30(64);CB-6 3x70:45(54) |
| 49 | 2 | 11 | 2 | 573 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 329 | 329 | 1954 | III | CB-10 3x150:125(73);CB-6 3x70:21(54) |
| 50 | 2 | 4 | 2 | 7 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 483 | 483 | 1957 | IV | ACB-6 3x185:113(60) |
| 51 | 2 | 4 | 2 | 107 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 220 | 220 | 1957 | IV | ACB-6 3x185:110(60) |
| 52 | 2 | 9 | 2 | 301 | 1 | 6.0 | | ACB-6 | 3 x 120 | 210 | 210 | 1957 | IV | |
| 53 | 1 | 103 | 1 | 453 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 415 | 415 | 1958 | V | ACB6,3X150(175),3X185(200) |
| 54 | 2 | 8 | 2 | 573 | 1 | 6.0 | 1 | CB-6 | 3 x 185 | 340 | 340 | 1958 | V | CB-6 3x150:180(74) |
| 55 | 1 | 103 | 1 | 550 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 385 | 385 | 1958 | V | AAB10,3X185:190(70) |
| 56 | 1 | 105 | 1 | 550 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 350 | 350 | 1958 | V | ACB10,3X185(190) |
| 57 | 2 | 108 | 2 | 109 | 1 | 6.0 | | ACB-6 | 3 x 95 | 245 | 245 | 1958 | V | |
| 58 | 2 | 200 | 2 | 291 | 1 | 6.0 | 1 | ACB-6 | 3 x 70 | 145 | 145 | 1958 | V | ACB-6 3x185:21(61) |
| 59 | 1 | 2 | 88 | 119 | 2 | 6.0 | 2 | ACB-6 | 3 x 185 | 205 | 410 | 1959 | VI | ACB6,3x120:200(59);ACB6,3x120:210(59) |
| 60 | 2 | 5 | 2 | 11 | 1 | 6.0 | | ACB-6 | 3 x 120 | 550 | 550 | 1959 | VI | |
| 61 | 1 | 102 | 1 | 476 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 315 | 315 | 1959 | VI | ACB6,3X185:80(65) |
| 62 | 1 | 105 | 1 | 247 | 1 | 6.0 | | ACB-6 | 3 x 120 | 300 | 300 | 1959 | VI | |
| 63 | 2 | 107 | 2 | 109 | 1 | 6.0 | | ACB-6 | 3 x 95 | 300 | 300 | 1959 | VI | |
| 64 | 5 | 179 | 2 | 321 | 1 | 6.0 | 1 | CB-6 | 3 x 185 | 645 | 645 | 1959 | VI | CB-6 3x95:210(60) |

Appendix 2.3-1(1) 6kV & 10kV Underground Cables to be replaced under the M/P in Sabail

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (act*m) | Commiss. Year | Priority | Remarks |
|---|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|--|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| 65 | 1 | 247 | 88 | 119 | 1 | 6.0 | | АСБ-6 | 3 x 120 | 235 | 235 | 1959 | VI | |
| 66 | 5 | 320 | 5 | 500 | 1 | 6.0 | 2 | АСБ-6 | 3 x 185 | 728 | 728 | 1959 | VI | ААШБ-10 3 x 150:115(73), АСБ-10 3 x 185:33(67) |
| 67 | 5 | 320 | 88 | 220 | 1 | 6.0 | 1 | АСБ-6 | 3 x 185 | 1,590 | 1,590 | 1959 | VI | СБ-6 3x95:94(0) |
| 68 | 1 | 322 | 1 | 476 | 1 | 6.0 | 1 | СБ-6 | 3 x 95 | 135 | 135 | 1959 | VI | АСБ10,3X185:80(65) |
| 69 | 1 | 2 | 2 | 17 | 1 | 6.0 | 2 | АСБ-6 | 3 x 185 | 1,364 | 1,364 | 1959 | VI | АСБ-10 3x150:50(73), АСБ-10 3x185:81(76) |
| 70 | 1 | 13 | 1 | 667 | 1 | 6.0 | 2 | СБ-6 | 3 x 70 | 305 | 305 | 1959 | VI | АСБ10,3x185:140(75), СБ10,3x185:15(91) |
| 71 | 2 | 23 | 88 | 119 | 1 | 6.0 | 3 | СБ-6 | 3 x 185 | 2,466 | 2,466 | 1959 | VI | АСБ-10 3x185:70(71), СБ-6 0.5x6(0), АСБ-10 3x150:270(71) |
| 72 | 2 | 41 | 2 | 321 | 1 | 6.0 | 2 | СБ-6 | 3 x 50 | 230 | 230 | 1959 | VI | СБ-6 3 x 185:435(59), СБ-6 3x50:70(59) |
| 73 | 2 | 4 | 2 | 108 | 1 | 6.0 | 1 | СБ-6 | 3 x 70 | 1,269 | 1,269 | 1960 | VII | СБ-6 3x50:219(60) |
| 74 | 2 | 17 | 2 | 23 | 1 | 6.0 | | АСБ-6 | 3 x 120 | 1,275 | 1,275 | 1960 | VII | |
| 75 | 1 | 101 | 1 | 102 | 1 | 6.0 | | АСБ-6 | 3 x 120 | 195 | 195 | 1960 | VII | |
| 76 | 1 | 101 | 1 | 453 | 1 | 6.0 | | АСБ-6 | 3 x 120 | 530 | 530 | 1960 | VII | |
| 77 | 5 | 179 | 4 | 527 | 1 | 6.0 | 1 | СБ-6 | 3 x 50 | 422 | 422 | 1960 | VII | СБ-6 3x95:342(60) |
| Subtotal of before 1960 | | | | | 79 | | | | | 38,209 | 39,174 | | | |
| (with 2 or more joints cable) | | | | | | | | | | | | | | |
| 78 | 5 | 147 | 5 | 326 | 1 | 6.0 | 3 | ААБ-6 | 3 x 120 | 1,085 | 1,085 | 1962 | VIII | СБ-4 2x185(73), ААБ-10 3x150:10(71), ААБ-10 3x120:1(71) |
| 79 | 2 | 66 | 5 | 147 | 1 | 6.0 | 2 | АСБ-6 | 3 x 185 | 890 | 890 | 1962 | VIII | ААБ-10 3x185:110(91), ААБ-10 3x185:130(72) |
| 80 | 2 | 12 | 2 | 573 | 1 | 6.0 | 3 | АСБ-10 | 3 x 150 | 432 | 432 | 1973 | IX | СБ-6 3x70:307(0), ААБ-10 3x185:0(0), 0 0x0(0) |
| 81 | 2 | 162 | 2 | 519 | 1 | 6.0 | 3 | АСБ-10 | 3 x 150 | 780 | 780 | 1973 | IX | ААБ-10 3x185:0(0), СБ-6 3x70:307(0), АСБ-4 3x185:0(0) |
| 82 | 2 | 301 | 2 | 348 | 1 | 6.0 | 2 | СБ-6 | 3 x 50 | 300 | 300 | 1976 | IX | АСБ-10 3x185:73(84), СБ-6 3x185:45(76) |
| 83 | 2 | 348 | 5 | 450 | 1 | 6.0 | 2 | АСБ-10 | 3 x 150 | 2,000 | 2,000 | 1980 | X | СБ-6 3x185:1460(89), АСБ-10 3x185:120(89) |
| 84 | 1 | 600 | 88 | 1907 | 4 | 10.0 | 2 | ЦААШБ-10 | 3 x 185 | 2,125 | 8,500 | 1980 | X | АСБ-10 3x185:730(80), ЦААШБ-10 3x185:150(80) |
| Subtotal of with 2 or more joints cable | | | | | 10 | | | | | 7,612 | 13,987 | | | |
| Total | | | | | 89 | | | | | 45,821 | 53,161 | | | |

Appendix 2.3-1(2) 6kV & 10kV Underground Cables to be replaced under the M/P in Yasamal

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (oct.m) | Commiss. Year | Priority | Remarks |
|---------------|-------------|-------------|-------------|-------------|-----------------------|--------------|-------|------------|------------|------------------|----------------------|---------------|----------|--|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| (before 1960) | | | | | | | | | | | | | | |
| 1 | 2 | 26 | 3 | 50 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 324 | 324 | 1928 | I | CB-6 3 x 95:60(28) |
| 2 | 2 | 26 | 2 | 348 | 1 | 6.0 | | CB-6 | 3 x 95 | 184 | 184 | 1928 | I | |
| 3 | 2 | 26 | 3 | 28 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 215 | 215 | 1929 | I | ACB-6 3 x 150:65(62) |
| 4 | 3 | 28 | 3 | 35 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 235 | 235 | 1929 | I | ACB6,3x150:65(62);ACB10,3x185:70(74) |
| 5 | 3 | 19 | 3 | 27 | 1 | 6.0 | | ACB-6 | 3 x 70 | 300 | 300 | 1933 | II | |
| 6 | 3 | 19 | 3 | 468 | 1 | 6.0 | 1 | ACB-6 | 3 x 70 | 165 | 165 | 1933 | II | ACB10,3x185:35(75) |
| 7 | 3 | 18 | 3 | 19 | 1 | 6.0 | | CB-6 | 3 x 50 | 304 | 304 | 1935 | II | |
| 8 | 4 | 29 | 4 | 222 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 375 | 375 | 1935 | II | AC6,3x150:242(59) |
| 9 | 3 | 35 | 3 | 48 | 1 | 6.0 | | CB-6 | 3 x 50 | 395 | 395 | 1935 | II | |
| 10 | 3 | 18 | 3 | 85 | 1 | 6.0 | | CB-6 | 3 x 70 | 292 | 292 | 1936 | II | |
| 11 | 2 | 26 | 3 | 85 | 1 | 6.0 | | CB-6 | 3 x 70 | 150 | 150 | 1936 | II | |
| 12 | 4 | 83 | 4 | 378 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 120 | 120 | 1936 | II | AC10,3x185:30(65) |
| 13 | 17 | 748 | 4 | 911 | 1 | 10.0 | 2 | ACB-10 | 3 x 120 | 1,045 | 1,045 | 1950 | II | ACB-10 3x150:940(75,98) |
| 14 | 3 | 27 | 3 | 38 | 1 | 6.0 | | CB-6 | 3 x 95 | 462 | 462 | 1951 | III | |
| 15 | 3 | 38 | 3 | 516 | 1 | 6.0 | | CB-6 | 3 x 95 | 600 | 600 | 1951 | III | |
| 16 | 3 | 38 | 88 | 120 | 1 | 6.0 | | CB-6 | 3 x 95 | 1,313 | 1,313 | 1951 | III | |
| 17 | 4 | 99 | 3 | 603 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 516 | 516 | 1952 | III | AAIIIБ-10 3x240:80(71);CB-10 3x95:12(71) |
| 18 | 4 | 104 | 88 | 120 | 1 | 6.0 | | CB-6 | 3 x 70 | 480 | 480 | 1952 | III | |
| 19 | 4 | 123 | 4 | 235 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 270 | 270 | 1952 | III | C6,3x70:200(68) |
| 20 | 4 | 235 | 88 | 120 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 470 | 470 | 1952 | III | CB-6 3x70:200(68) |
| 21 | 4 | 39 | 88 | 111 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 590 | 590 | 1953 | III | ACB-10 3x240:370(98) |
| 22 | 4 | 104 | 4 | 383 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 370 | 370 | 1953 | III | C6,3x70:190(58) |
| 23 | 4 | 142 | 4 | 529 | 1 | 6.0 | | CB-6 | 3 x 95 | 770 | 770 | 1953 | III | |
| 24 | 3 | 14 | 3 | 16 | 1 | 6.0 | 3 | CB-6 | 3 x 95 | 544 | 544 | 1954 | III | CB6,3x95:45(54);25(58);ACB10,3x150:100(73) |
| 25 | 4 | 30 | 4 | 206 | 1 | 6.0 | 2 | CB-6 | 3 x 120 | 485 | 485 | 1954 | III | C6,3x185:145(54);AC10,3x150:20(68) |
| 26 | 4 | 39 | 4 | 206 | 1 | 6.0 | | CB-6 | 3 x 185 | 300 | 300 | 1954 | III | |
| 27 | 3 | 131 | 88 | 120 | 1 | 6.0 | | CB-6 | 3 x 50 | 1,700 | 1,700 | 1954 | III | |
| 28 | 4 | 132 | 4 | 296 | 1 | 6.0 | | CB-6 | 3 x 95 | 440 | 440 | 1954 | III | |
| 29 | 4 | 132 | 4 | 423 | 1 | 6.0 | | CB-6 | 3 x 95 | 140 | 140 | 1954 | III | |
| 30 | 4 | 134 | 4 | 472 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 546 | 546 | 1954 | III | C6,3x150:75(64) |
| 31 | 4 | 137 | 4 | 423 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 272 | 272 | 1954 | III | AC6,3x185:12(63) |
| 32 | 4 | 142 | 4 | 751 | 1 | 6.0 | 2 | CB-6 | 3 x 50 | 950 | 950 | 1954 | III | C6,3x95:850(54);AC10,3x150:75(80) |
| 33 | 3 | 27 | 3 | 551 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 445 | 445 | 1955 | IV | ACB-10 3x150:135(69) |
| 34 | 4 | 123 | 4 | 342 | 1 | 6.0 | 3 | ACB-6 | 3 x 185 | 806 | 806 | 1955 | IV | AC6,3x95:171(60);AC6,3x150:250(66);AA6,3x240:70(66) |
| 35 | 3 | 124 | 3 | 273 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 558 | 558 | 1955 | IV | C6,3x95:241(58);3x185:141(62) |
| 36 | 4 | 144 | 88 | 111 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 270 | 270 | 1955 | IV | C6,3x150:150(66) |
| 37 | 3 | 273 | 5 | 289 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 134 | 134 | 1955 | IV | C6,3x95:361(58) |
| 38 | 4 | 277 | 9 | 233 | 1 | 6.0 | 4 | CB-6 | 3 x 95 | 1,327 | 1,327 | 1955 | IV | AC6,3x95:171(60);AC6,3x150:250(66);AC10,3x150:20(68) |
| 39 | 4 | 288 | 4 | 385 | 1 | 6.0 | | ACB-6 | 3 x 185 | 320 | 320 | 1955 | IV | |
| 40 | 4 | 288 | 4 | 641 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 375 | 375 | 1955 | IV | AC10,3x185:120(65);AC10,3x150:60(73) |
| 41 | 5 | 289 | 3 | 516 | 1 | 6.0 | 3 | CB-6 | 3 x 70 | 1,040 | 1,040 | 1955 | IV | C6,3x95:100(58);3x70:12(60);AC10,3x185:195(71) |
| 42 | 4 | 207 | 4 | 751 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 385 | 385 | 1956 | IV | AC10,3x50:75(80) |
| 43 | 6 | 37 | 4 | 134 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 903 | 903 | 1957 | IV | AC10,3x150:470(74) |
| 44 | 3 | 85 | 2 | 301 | 1 | 6.0 | | ACB-6 | 3 x 185 | 360 | 360 | 1957 | IV | |
| 45 | 3 | 90 | 3 | 272 | 1 | 6.0 | | CB-6 | 3 x 95 | 525 | 525 | 1957 | V | |
| 46 | 4 | 114 | 4 | 216 | 1 | 6.0 | | CB-6 | 3 x 95 | 150 | 150 | 1957 | V | |
| 47 | 3 | 118 | 3 | 131 | 1 | 6.0 | | CB-6 | 3 x 70 | 370 | 370 | 1957 | V | |
| 48 | 3 | 121 | 3 | 961 | 1 | 6.0 | 1 | ACB-10 | 3 x 120 | 305 | 305 | 1957 | V | ACB-10 3 x 120:5(95) |
| 49 | 3 | 124 | 3 | 391 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 670 | 670 | 1957 | V | AC6,3x185:170(63) |
| 50 | 4 | 174 | 4 | 207 | 1 | 6.0 | | CB-6 | 3 x 70 | 420 | 420 | 1957 | V | |
| 51 | 4 | 174 | 4 | 506 | 1 | 6.0 | 2 | ACB-6 | 3 x 95 | 430 | 430 | 1957 | V | AC6,3x185:163(62);AC10,3x150:150(69) |
| 52 | 3 | 208 | 3 | 394 | 1 | 6.0 | | CB-6 | 3 x 150 | 350 | 350 | 1957 | V | |
| 53 | 4 | 222 | 4 | 783 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 230 | 230 | 1957 | V | AC10,3x95:150(83) |
| 54 | 3 | 14 | 3 | 121 | 1 | 6.0 | 1 | CB-6 | 3x70 | 281 | 281 | 1958 | V | CB6,3x95:51(58) |
| 55 | 4 | 29 | 4 | 135 | 1 | 6.0 | | CB-6 | 3 x 50 | 315 | 315 | 1958 | V | |
| 56 | 4 | 30 | 4 | 914 | 1 | 6.0 | 2 | ACB-10 | 3 x 150 | 470 | 470 | 1958 | V | AAБ-10,3x95:50(95);ACB-10,3x150:20(68) |
| 57 | 3 | 90 | 3 | 477 | 1 | 6.0 | 1 | CB-6 | 3 x 150 | 450 | 450 | 1958 | V | AAБ10,3x150:0(65) |
| 58 | 4 | 92 | 4 | 99 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 400 | 400 | 1958 | V | AAIII10,3x240:80(71) |
| 59 | 3 | 118 | 3 | 299 | 1 | 6.0 | | CB-6 | 3 x 150 | 230 | 230 | 1958 | V | |
| 60 | 3 | 124 | 3 | 208 | 1 | 6.0 | | ACB-6 | 3 x 185 | 570 | 570 | 1958 | V | |
| 61 | 3 | 131 | 3 | 293 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 125 | 125 | 1958 | V | AC6,3x185:35(62) |
| 62 | 4 | 135 | 4 | 137 | 1 | 6.0 | | CB-6 | 3 x 50 | 375 | 375 | 1958 | V | |
| 63 | 4 | 216 | 4 | 383 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 115 | 115 | 1958 | V | AC6,3x185:75(62) |
| 64 | 4 | 222 | 4 | 463 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 410 | 410 | 1958 | V | AC10,3x150:100(68) |

Appendix 2.3-1(2) 6kV & 10kV Underground Cables to be replaced under the M/P in Yasamal

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (cct*m) | Commiss. Year | Priority | Remarks | |
|---|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|--|--|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | | |
| 65 | 4 | 259 | 4 | 398 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 205 | 205 | 1958 | V | AC6,3x185:75(62) | |
| 66 | 3 | 272 | 3 | 297 | 1 | 6.0 | | ACB-6 | 3 x 150 | 296 | 296 | 1958 | V | | |
| 67 | 4 | 277 | 4 | 347 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 255 | 255 | 1958 | V | AA10,3x185:75(70) | |
| 68 | 5 | 289 | 3 | 290 | 1 | 6.0 | | CB-6 | 3 x 95 | 360 | 360 | 1958 | V | | |
| 69 | 3 | 290 | 3 | 457 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 134 | 134 | 1958 | V | AC6,3x150:46(64) | |
| 70 | 3 | 293 | 3 | 457 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 217 | 217 | 1958 | V | Ac6,3x150:46(64);3x185:35(62) | |
| 71 | 3 | 299 | 3 | 477 | 1 | 6.0 | 1 | CB-6 | 3 x 150 | 565 | 565 | 1958 | V | AA10,3x150:290(65) | |
| 72 | 4 | 347 | 4 | 508 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 95 | 95 | 1958 | V | AA10,3x150:430(66) | |
| 73 | 3 | 35 | 4 | 292 | 1 | 6.0 | | ACB-6 | 3x120 | 210 | 210 | 1959 | VI | | |
| 74 | 4 | 83 | 4 | 292 | 1 | 6.0 | | ACB-6 | 3 x 185 | 285 | 285 | 1959 | VI | | |
| 75 | 4 | 92 | 4 | 298 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 107 | 107 | 1959 | VI | AC6,3x185:70(58) | |
| 76 | 4 | 134 | 4 | 296 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 294 | 294 | 1959 | VI | C6,3x185:120(54) | |
| 77 | 4 | 136 | 4 | 137 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 323 | 323 | 1959 | VI | C6,3x185:45(52) | |
| 78 | 4 | 137 | 4 | 172 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 230 | 230 | 1959 | VI | C6,3x185:50(52) | |
| 79 | 4 | 174 | 4 | 238 | 1 | 6.0 | | ACB-6 | 3 x 185 | 240 | 240 | 1959 | VI | | |
| 80 | 4 | 207 | 4 | 460 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 390 | 390 | 1959 | VI | AC6,3x150:90(64) | |
| 81 | 4 | 235 | 4 | 238 | 1 | 6.0 | | ACB-6 | 3 x 150 | 480 | 480 | 1959 | VI | | |
| 82 | 2 | 361 | 88 | 119 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 800 | 800 | 1959 | VI | CB-6 3x50:110(59) | |
| 83 | 4 | 460 | 88 | 120 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 214 | 214 | 1959 | VI | AC6,3x150:90(64) | |
| 84 | 3 | 28 | 3 | 85 | 1 | 6.0 | | ACB-6 | 3 x 150 | 460 | 460 | 1960 | VII | | |
| 85 | 3 | 28 | 3 | 260 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 170 | 170 | 1960 | VII | ACB6,3x185(60) | |
| 86 | 3 | 28 | 3 | 327 | 1 | 6.0 | | ACB-6 | 3 x 185 | 392 | 392 | 1960 | VII | | |
| 87 | 4 | 114 | 4 | 139 | 1 | 6.0 | | ACB-6 | 3 x 185 | 350 | 350 | 1960 | VII | | |
| 88 | 9 | 130 | 17 | 417 | 1 | 6.0 | | ACB-6 | 3 x 95 | 90 | 90 | 1960 | VII | | |
| 89 | 4 | 139 | 88 | 120 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 575 | 575 | 1960 | VII | AA6,3x185:320(64) | |
| 90 | 3 | 208 | 3 | 340 | 1 | 6.0 | | ACB-6 | 3 x 185 | 250 | 250 | 1960 | VII | | |
| 91 | 3 | 208 | 3 | 394 | 1 | 6.0 | | ACB-6 | 3 x 185 | 370 | 370 | 1960 | VII | | |
| 92 | 4 | 238 | 4 | 338 | 1 | 6.0 | | ACB-6 | 3 x 185 | 367 | 367 | 1960 | VII | | |
| 93 | 3 | 260 | 3 | 327 | 1 | 6.0 | | ACB-6 | 3 x 185 | 263 | 263 | 1960 | VII | | |
| 94 | 4 | 288 | 4 | 438 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 470 | 470 | 1960 | VII | AC6,3x185:340(63);AC6,3x95:80(64) | |
| 95 | 4 | 288 | 4 | 549 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 610 | 610 | 1960 | VII | AC10,3x150:135(74)&85(76) | |
| 96 | 4 | 298 | 88 | 120 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 720 | 720 | 1960 | VII | AC6,3x185:320(64);AA10,3x185:330(89) | |
| 97 | 4 | 314 | 4 | 549 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 285 | 285 | 1960 | VII | AC10,3x150:135(60) | |
| 98 | 4 | 314 | 88 | 120 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 1,302 | 1,302 | 1960 | VII | C6,3x95:385(60) | |
| 99 | 4 | 324 | 88 | 111 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 566 | 566 | 1960 | VII | C6,3x185:286(60) | |
| 100 | 3 | 327 | 3 | 498 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 240 | 240 | 1960 | VII | AA10,3x150:130(65) | |
| 101 | 17 | 341 | 9 | 417 | 1 | 6.0 | 3 | ACB-6 | 3 x 95 | 1,390 | 1,390 | 1960 | VII | AC6,3x185:15(68);AC10,3x185:15(72);450(75) | |
| 102 | 4 | 342 | 4 | 385 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 385 | 385 | 1960 | VII | AC6,3x185:214(60) | |
| 103 | 3 | 351 | 3 | 394 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 935 | 935 | 1960 | VII | AC6,3x185:100(62);AA10,3x185:225(68) | |
| Subtotal of before 1960 | | | | | 103 | | | | | 45,326 | 45,326 | | | | |
| (with 2 or more joints cable) | | | | | | | | | | | | | | | |
| 104 | 17 | 568 | 17 | 629 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 928 | 928 | 1961 | VIII | AAE-10 3x150:600(69);ACB-10 3x150(73) | |
| 105 | 3 | 118 | 2 | 413 | 1 | 6.0 | 3 | ACB-6 | 3 x 70 | 250 | 250 | 1962 | VIII | AA10,3x185:100(83);AA116,3x150:140(83) | |
| 106 | 3 | 297 | 2 | 413 | 1 | 6.0 | 2 | ACB-6 | 3 x 70 | 1,450 | 1,450 | 1962 | VIII | AA1110,3x185:1100(75);AA10,3x185:100(83) | |
| 107 | 9 | 130 | 9 | 418 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 654 | 654 | 1963 | VIII | A1110,3x150:30(70);AC10,3x185:220(-) | |
| 108 | 4 | 472 | 4 | 707 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 400 | 400 | 1964 | IX | C6,3x150:75(64);AC10,3x185:45(77) | |
| 109 | 17 | 353 | 17 | 447 | 1 | 10.0 | 2 | ACB-6 | 3 x 185 | 1,234 | 1,234 | 1964 | IX | AA111B-10 3 x 185:557(78);AA111B-10 3x150:557(78) | |
| 110 | 17 | 266 | 17 | 687 | 1 | 10.0 | 3 | ACB-6 | 3 x 120 | 830 | 830 | 1965 | IX | ACB-6 3x120:160(69);3x120:300(83);ACB-10,3x120:80(91) | |
| 111 | 17 | 352 | 17 | 700 | 1 | 10.0 | 4 | ACB-6 | 3 x 185 | 340 | 340 | 1966 | IX | ACB-6 3x185:15(68);AAE-10 3x150:600(69);ACB-10 3x150(73) | |
| 112 | 17 | 373 | 17 | 700 | 1 | 10.0 | 2 | ACB-6 | 3 x 185 | 655 | 655 | 1966 | IX | ACB-10 3x185:15(68);CB-10 3x95:280(68) | |
| 113 | 17 | 700 | 88 | 1910 | 2 | 10.0 | 2 | AA111B-10 | 3 x 185 | 1,470 | 2,940 | 1974 | IX | ACB-10 3x185:90(75);ACB-10 3x185:15(77) | |
| 114 | 3 | 409 | 3 | 625 | 1 | 10.0 | 2 | ACB-10 | 3 x 150 | 670 | 670 | 1975 | IX | ACB-10 3x150:50(75);ACB-10 3x150:70(80) | |
| Subtotal of with 2 or more joints cable | | | | | 12 | | | | | 8,881 | 10,351 | | | | |
| (use 6kV cable) | | | | | | | | | | | | | | | |
| 115 | 17 | 300 | 17 | 337 | 1 | 10.0 | | ACB-6 | 3 x 185 | 300 | 300 | 1963 | X | | |
| 116 | 17 | 428 | 17 | 439 | 1 | 10.0 | | CB-6 | 3 x 95 | 250 | 250 | 1963 | X | | |
| 117 | 17 | 266 | 17 | 373 | 1 | 10.0 | | ACB-6 | 3 x 120 | 270 | 270 | 1961 | X | | |
| 118 | 17 | 300 | 17 | 352 | 1 | 10.0 | | ACB-6 | 3 x 185 | 300 | 300 | 1961 | X | | |
| 119 | 17 | 469 | 17 | 687 | 1 | 10.0 | 1 | ACB-6 | 3 x 120 | 230 | 230 | 1965 | X | ACB-10 3x120:80(91) | |
| 120 | 7 | 377 | 7 | 451 | 1 | 10.0 | | ACB-6 | 3 x 95 | 150 | 150 | 1965 | X | | |
| 121 | 17 | 352 | 17 | 524 | 1 | 10.0 | | ACB-6 | 3 x 120 | 234 | 234 | 1967 | X | | |
| Subtotal of use 6kV cable | | | | | 7 | | | | | 1,734 | 1,734 | | | | |
| Total | | | | | 122 | | | | | 55,941 | 57,411 | | | | |

Appendix 2.3-1(3) 6kV & 10kV Underground Cables to be replaced under the M/P in Nasimi

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (act.m) | Commiss. Year | Priority | Remarks |
|---------------|-------------|-------------|-------------|-------------|-----------------------|--------------|-------|------------|------------|------------------|----------------------|---------------|----------|---|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| (before 1960) | | | | | | | | | | | | | | |
| 1 | 2 | 44 | 5 | 45 | 1 | 6.0 | | CB-6 | 3 x 95 | 365 | 365 | 1911 | I | |
| 2 | 5 | 78 | 5 | 234 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 267 | 267 | 1911 | I | CB-6 3x70:360(31) |
| 3 | 5 | 45 | 5 | 81 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 358 | 358 | 1912 | I | CB-6 3x95:125(58) |
| 4 | 5 | 46 | 5 | 81 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 429 | 429 | 1912 | I | CB-6 3x95:125(58) |
| 5 | 5 | 78 | 5 | 614 | 1 | 6.0 | | ACB-10 | 3 x 150 | 170 | 170 | 1912 | I | |
| 6 | 5 | 46 | 5 | 214 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 587 | 587 | 1913 | I | CB-6 3x70:153(72),AAB-10 3x150:15(72) |
| 7 | 8 | 39 | 88 | 1915 | 2 | 6.0 | 1 | ACB-10 | 3 x 240 | 1,180 | 2,360 | 1915 | I | CB-6 3x95:220(54) |
| 8 | 5 | 71 | 5 | 3289 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 961 | 961 | 1920 | I | CB-6 3x185:430(67),CB-10 3x95:185(70) |
| 9 | 3 | 47 | 88 | 117 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 662 | 662 | 1922 | I | ACB-6 3x150:340(22) |
| 10 | 3 | 48 | 88 | 117 | 1 | 6.0 | 1 | ACB-10 | 3 x 150 | 450 | 450 | 1922 | I | CB-6 3x50:100(22) |
| 11 | 5 | 64 | 5 | 75 | 1 | 6.0 | 1 | CB-10 | 3 x 95 | 599 | 599 | 1923 | I | CB-10 3x95:250(70) |
| 12 | 5 | 65 | 5 | 94 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 400 | 400 | 1923 | I | ACB-6 3x185:100(78) |
| 13 | 5 | 65 | 88 | 220 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 670 | 670 | 1923 | I | CB-6 3x70:570(23) |
| 14 | 5 | 75 | 5 | 94 | 1 | 6.0 | 2 | CB-6 | 3 x 50 | 405 | 405 | 1923 | I | CB-6 3x150:38(58),ACB-6 3x185:40(73) |
| 15 | 5 | 65 | 90 | 241 | 1 | 6.0 | | CB-6 | 3 x 70 | 250 | 250 | 1926 | I | |
| 16 | 6 | 67 | 7 | 70 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 540 | 540 | 1926 | I | C6,3x70:160(56),AA10,3x150:140(82) |
| 17 | 3 | 15 | 3 | 58 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 175 | 175 | 1927 | I | CB6,3x70:61(-) |
| 18 | 3 | 50 | 3 | 58 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 519 | 519 | 1928 | I | CB6,3x95:70(53) |
| 19 | 5 | 45 | 3 | 51 | 1 | 6.0 | | CB-6 | 3 x 70 | 293 | 293 | 1931 | I | |
| 20 | 3 | 50 | 3 | 51 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 340 | 340 | 1931 | I | CB6,3x95:115(53) |
| 21 | 6 | 67 | 6 | 526 | 1 | 6.0 | | CB-6 | 3 x 95 | 317 | 317 | 1931 | I | |
| 22 | 6 | 68 | 6 | 87 | 1 | 6.0 | | CB-6 | 3 x 95 | 386 | 386 | 1931 | I | |
| 23 | 6 | 68 | 6 | 526 | 1 | 6.0 | | CB-6 | 3 x 95 | 315 | 315 | 1931 | I | |
| 24 | 6 | 87 | 6 | 390 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 415 | 415 | 1931 | II | AC6,3x150:145(63) |
| 25 | 6 | 89 | 6 | 390 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 375 | 375 | 1931 | II | AC6,3x150:145(63) |
| 26 | 3 | 15 | 3 | 47 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 262 | 262 | 1935 | II | CB6,3x70:50(-) |
| 27 | 3 | 48 | 5 | 106 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 410 | 410 | 1935 | II | ACB-10 3x185:200(77) |
| 28 | 2 | 44 | 2 | 162 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 645 | 645 | 1936 | II | AAB-10 3x185:25(80),CB-6 3x50:460(0) |
| 29 | 6 | 87 | 6 | 838 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 130 | 130 | 1938 | II | AC10,3x185:30(87) |
| 30 | 6 | 67 | 6 | 623 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 230 | 230 | 1949 | II | AC10,3x150:135(73) |
| 31 | 6 | 68 | 6 | 363 | 1 | 6.0 | 2 | CB-6 | 3 x 50 | 408 | 408 | 1949 | II | AC10,3x95:150(61);3x185:195(61) |
| 32 | 5 | 326 | 88 | 220 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 1,420 | 1,420 | 1949 | II | ACB-6 3x150:320(62) |
| 33 | 6 | 68 | 6 | 231 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 662 | 662 | 1950 | II | C6,3x185:480(50),AC6,3x185:75(66) |
| 34 | 6 | 170 | 6 | 226 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 387 | 387 | 1950 | II | AC6,3x95:213(64) |
| 35 | 6 | 170 | 6 | 396 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 470 | 470 | 1950 | II | C6,3x95:220(55) |
| 36 | 5 | 76 | 5 | 79 | 1 | 6.0 | | CB-6 | 3 x 70 | 341 | 341 | 1951 | III | |
| 37 | 5 | 173 | 5 | 225 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 200 | 200 | 1951 | III | ACB-6 3x185:350(62) |
| 38 | 6 | 89 | 5 | 173 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 570 | 570 | 1953 | III | CB-6 3x95:140(53),ACB-6 3x150:167(59) |
| 39 | 5 | 138 | 88 | 111 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 603 | 603 | 1953 | III | ACB-6 3x95:382(61) |
| 40 | 6 | 231 | 6 | 390 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 280 | 280 | 1953 | III | AC6,3x150:75(53);AC6,3x185:135(66) |
| 41 | 5 | 52 | 5 | 214 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 490 | 490 | 1954 | III | ACB-10150:80(80) |
| 42 | 6 | 67 | 5 | 71 | 1 | 6.0 | | CB-6 | 3 x 95 | 476 | 476 | 1954 | III | |
| 43 | 6 | 86 | 6 | 150 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 65 | 65 | 1954 | III | C6,3x95:180(54),AAIII,3x185:140(54) |
| 44 | 5 | 155 | 5 | 831 | 1 | 6.0 | | CB-6 | 3 x 70 | 545 | 545 | 1954 | III | |
| 45 | 5 | 156 | 5 | 180 | 1 | 6.0 | | ACB-6 | 3 x 120 | 495 | 495 | 1954 | III | |
| 46 | 5 | 156 | 1 | 228 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 335 | 335 | 1954 | III | ACB-10 3x185:50(74) |
| 47 | 5 | 228 | 5 | 831 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 305 | 305 | 1954 | III | ACB-6 3x185:130(77) |
| 48 | 5 | 234 | 5 | 310 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 300 | 300 | 1954 | III | CB-6 3x95:400(55),CB-6 3x185:100(59) |
| 49 | 6 | 422 | 88 | 96 | 1 | 6.0 | 3 | CB-6 | 3 x 95 | 473 | 473 | 1954 | III | AC6,3x150:117(62);56(63),AC10,3x185:50(78) |
| 50 | 5 | 71 | 5 | 310 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 230 | 230 | 1955 | IV | CB-6 3x183:100(59) |
| 51 | 5 | 75 | 5 | 236 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 270 | 270 | 1955 | IV | ACB-10 3x185:120(77) |
| 52 | 5 | 76 | 1 | 228 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 270 | 270 | 1955 | IV | ACB-10 3x185:120(77) |
| 53 | 6 | 86 | 88 | 96 | 1 | 6.0 | | CB-6 | 3 x 95 | 200 | 200 | 1955 | IV | |
| 54 | 6 | 175 | 6 | 302 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 620 | 620 | 1955 | IV | AC6,3x150:210(59) |
| 55 | 6 | 175 | 88 | 96 | 1 | 6.0 | 2 | OCB-35 | 3 x 95 | 584 | 584 | 1955 | IV | C6,3x185:80(55);3x150:85(65) |
| 56 | 6 | 177 | 6 | 396 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 530 | 530 | 1955 | IV | C6,3x50:250(62) |
| 57 | 4 | 189 | 9 | 232 | 1 | 6.0 | | ACB-6 | 3 x 70 | 510 | 510 | 1955 | IV | |
| 58 | 9 | 197 | 9 | 594 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 414 | 414 | 1955 | IV | AC10,3x185:7(72) |
| 59 | 9 | 197 | 9 | 823 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 230 | 230 | 1955 | IV | AA10,3x185:100(85) |
| 60 | 9 | 221 | 9 | 233 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 440 | 440 | 1955 | IV | AAIII10,3x150:310(73) |
| 61 | 6 | 256 | 6 | 302 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 275 | 275 | 1955 | IV | AC6,3x150:230(59) |
| 62 | 5 | 240 | 5 | 602 | 1 | 6.0 | 3 | CB-6 | 3 x 150 | 696 | 696 | 1956 | IV | AAB-10 3 x 185:268(68),ACB-10 3x150:104(79),ACB-6 3x185:185(59) |
| 63 | 5 | 240 | 88 | 220 | 1 | 6.0 | 2 | CB-6 | 3 x 150 | 510 | 510 | 1956 | IV | AAB-10 3 x 185:93(68),ACB-10 3x150:105(77) |
| 64 | 5 | 265 | 5 | 464 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 195 | 195 | 1956 | IV | CB-6 3x70:55(56),ACB-10 3x150:50(80) |

Appendix 2.3-1(3) 6kV & 10kV Underground Cables to be replaced under the M/P in Nasimi

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (cct*m) | Commiss. Year | Priority | Remarks | |
|---|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|---|--|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | | |
| 65 | 5 | 154 | 4 | 783 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 573 | 573 | 1957 | V | C6,3x95:236(57),AC6,3x95:150(83) | |
| 66 | 5 | 154 | 5 | 155 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 580 | 580 | 1957 | V | CB-6 3x70:180(57) | |
| 67 | 5 | 158 | 5 | 224 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 312 | 312 | 1957 | V | ACB-6 3x150:12(87) | |
| 68 | 6 | 175 | 6 | 176 | 1 | 6.0 | | ACB-6 | 3 x 120 | 250 | 250 | 1957 | V | | |
| 69 | 6 | 175 | 6 | 177 | 1 | 6.0 | | CB-6 | 3 x 95 | 229 | 229 | 1957 | V | | |
| 70 | 5 | 224 | 5 | 271 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 433 | 433 | 1957 | V | ACB-6 3x150:55(87) | |
| 71 | 6 | 560 | 88 | 96 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 325 | 325 | 1957 | V | AC10,3x185:85(69) | |
| 72 | 6 | 67 | 6 | 68 | 1 | 6.0 | | CB-6 | 3 x 95 | 635 | 635 | 1958 | V | | |
| 73 | 6 | 176 | 6 | 178 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 280 | 280 | 1958 | V | AC10,3x185:65(68) | |
| 74 | 9 | 183 | 9 | 188 | 1 | 6.0 | 4 | ACB-10 | 3 x 120 | 650 | 650 | 1958 | V | AAE-6,3x95:37x(58),3x120:15x(30),3x95:33x(30),AAE-10,3x120:55(76) | |
| 75 | 9 | 188 | 9 | 395 | 1 | 6.0 | | ACB-6 | 3 x 95 | 160 | 160 | 1958 | V | | |
| 76 | 5 | 234 | 5 | 492 | 1 | 6.0 | 3 | ACB-6 | 3 x 185 | 439 | 439 | 1958 | V | CB-6 3x185:74(68),ACB-10 3x150:160(73),CB-6 3x70:175(58) | |
| 77 | 5 | 426 | 4 | 463 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 515 | 515 | 1958 | V | AC6,3x150:90(58),AC10,3x150:51.5(68) | |
| 78 | 5 | 426 | 88 | 111 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 262 | 262 | 1958 | V | ACB-6 3x150:90(63) | |
| 79 | 5 | 64 | 5 | 217 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 632 | 632 | 1959 | VI | CB-6 3x95:250(70) | |
| 80 | 5 | 93 | 5 | 532 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 120 | 120 | 1959 | VI | ACB-10 3x150:55(59) | |
| 81 | 5 | 173 | 5 | 309 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 790 | 790 | 1959 | VI | AAHB-10 3x185:110(79) | |
| 82 | 5 | 180 | 5 | 309 | 1 | 6.0 | 1 | ACB-6 | 3 x 120 | 290 | 290 | 1959 | VI | AAHB-6 3x120:110(70) | |
| 83 | 9 | 221 | 9 | 313 | 1 | 6.0 | | CB-6 | 3 x 95 | 425 | 425 | 1959 | VII | | |
| 84 | 5 | 240 | 5 | 532 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 340 | 340 | 1959 | VII | ACB-6 3 x 185:55(60) | |
| 85 | 6 | 89 | 6 | 251 | 1 | 6.0 | 1 | ACB-10 | 3 x 95 | 1,050 | 1,050 | 1960 | VII | AC10,3x185:70(60) | |
| 86 | 6 | 89 | 6 | 772 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 721 | 721 | 1960 | VII | AC10,3x150:190(81),AA10,3x185:420(81) | |
| 87 | 6 | 89 | 88 | 96 | 1 | 6.0 | 1 | CB-6 | 3 x 150 | 548 | 548 | 1960 | VII | AC6,3x185:59(60) | |
| 88 | 9 | 151 | 9 | 203 | 1 | 6.0 | | CB-6 | 3 x 95 | 550 | 550 | 1960 | VII | | |
| 89 | 6 | 177 | 6 | 723 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 626 | 626 | 1960 | VII | C6,3x185:350(60),AC10,3x240:110(60) | |
| 90 | 9 | 199 | 9 | 232 | 1 | 6.0 | | ACB-6 | 3 x 120 | 800 | 800 | 1960 | VII | | |
| 91 | 9 | 203 | 9 | 233 | 1 | 6.0 | | ACB-6 | 3 x 95 | 600 | 600 | 1960 | VII | | |
| 92 | 9 | 203 | 9 | 313 | 1 | 6.0 | | CB-6 | 3 x 95 | 270 | 270 | 1960 | VIII | | |
| 93 | 9 | 203 | 9 | 336 | 1 | 6.0 | | ACB-6 | 3 x 95 | 110 | 110 | 1960 | VIII | | |
| 94 | 5 | 223 | 5 | 225 | 1 | 6.0 | 1 | ACB-10 | 3 x 120 | 250 | 250 | 1960 | VIII | ACB-6 3x185:210(60) | |
| 95 | 6 | 323 | 6 | 478 | 1 | 6.0 | 2 | ACB-6 | 3 x 240 | 615 | 615 | 1960 | VIII | ACB-6 3x185:160(60),ACB-6 3x185:90(60) | |
| 96 | 5 | 334 | 5 | 492 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 112 | 112 | 1960 | VIII | ACB-10 3x185:70(69),ACB-6 3x185:22(79) | |
| 97 | 5 | 334 | 88 | 117 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 476 | 476 | 1960 | VIII | ACB-10 3x185:21(79),ACB-10 3x185:435(69) | |
| 98 | 6 | 345 | 6 | 522 | 1 | 6.0 | 2 | ACB-10 | 3 x 185 | 285 | 285 | 1960 | VIII | CB-6 3x185:145(60),CB-6 3x150:15(67) | |
| 99 | 6 | 345 | 9 | 835 | 1 | 6.0 | | CB-6 | 3 x 95 | 190 | 190 | 1960 | VIII | | |
| 100 | 6 | 345 | 88 | 111 | 1 | 6.0 | | CB-6 | 3 x 95 | 290 | 290 | 1960 | VIII | | |
| 101 | 9 | 380 | 9 | 470 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 562 | 562 | 1960 | VIII | AC10,3x185:222(64) | |
| 102 | 9 | 381 | 9 | 470 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 267 | 267 | 1960 | VIII | AC10,3x185:222(64) | |
| 103 | 6 | 478 | 88 | 96 | 1 | 6.0 | | ACB-6 | 3 x 240 | 155 | 155 | 1960 | VIII | | |
| 104 | 6 | 522 | 6 | 723 | 1 | 6.0 | 1 | CB-6 | 3 x 185 | 410 | 410 | 1960 | VIII | ACB-10 3x240:110(78) | |
| 105 | 6 | 835 | 88 | 111 | 1 | 6.0 | | CB-6 | 3 x 95 | 100 | 100 | 1960 | VIII | | |
| 106 | 5 | 62 | 5 | 325 | 1 | 10.0 | | CB-6 | 3 x 185 | 130 | 130 | 1960 | VIII | CB-6 3x95:80(60) | |
| Subtotal of before 1960 | | | | | | | | | | | 45,261 | 46,441 | | | |
| (with 2 or more joints cable) | | | | | | | | | | | | | | | |
| 107 | 5 | 228 | 5 | 309 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 500 | 500 | 1961 | VIII | AAHB-10 3x185:110(74),ACB-10 3x185:110(76) | |
| 108 | 6 | 229 | 6 | 838 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 395 | 395 | 1961 | VIII | CB-6 3x70:250(38),AAE-10 3x185:30(87) | |
| 109 | 5 | 94 | 5 | 553 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 1,270 | 1,270 | 1962 | VIII | AAHB-10 3x185:420(78),AAE-10 3x185:130(71) | |
| 110 | 9 | 434 | 9 | 440 | 1 | 10.0 | 2 | CB-6 | 3 x 95 | 680 | 680 | 1963 | IX | AC6,130(63),AC10,3x150:370(74) | |
| 111 | 9 | 434 | 9 | 740 | 1 | 10.0 | 2 | ACB-6 | 3 x 150 | 290 | 290 | 1963 | IX | ACB-10,3x150:60(78),ACB-10,3x150:50(78) | |
| 112 | 90 | 2060 | 88 | 95 | 2 | 6.0 | 2 | ACB-10 | 3 x 185 | 1,595 | 3,190 | 1964 | IX | ACB-10 3x185:1050(74),445(81) | |
| 113 | 4 | 189 | 88 | 111 | 1 | 6.0 | 3 | CB-6 | 3 x 150 | 1,380 | 1,380 | 1965 | IX | AAE-10 3x185:730(67),ACB-6 3x150:110(65),220(67) | |
| 114 | 6 | 150 | 6 | 231 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 355 | 355 | 1966 | IX | AAH10,3x185:140(82),CB-6 3x70:130(54) | |
| 115 | 9 | 434 | 9 | 740 | 1 | 10.0 | 2 | ACB-10 | 3 x 120 | 220 | 220 | 1969 | IX | ACB-10,3x150:30(78),ACB-10,3x150:50(78) | |
| 116 | 9 | 611 | 9 | 612 | 2 | 10.0 | 2 | AAE-10 | 3 x 185 | 370 | 740 | 1969 | IX | AA10,3x150:60(71),AC10,3x185:42(85) | |
| 117 | 5 | 24 | 5 | 234 | 1 | 10.0 | 2 | ACB-10 | 3 x 185 | 475 | 475 | 1972 | IX | ACB-10 3 x 185:10(85),ACE-10 3 x 185:190(72) | |
| 118 | 6 | 31 | 6 | 780 | 2 | 10.0 | 2 | ACB-10 | 3 x 150 | 2,037 | 4,074 | 1977 | X | ACB-10 3x185:100(83),ACB-10 3x240:737(84) | |
| 119 | 5 | 93 | 5 | 94 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 567 | 567 | 1978 | X | CB-6 3x70:257(78),AAHB-10 3x185:40(78) | |
| 120 | 5 | 81 | 5 | 450 | 1 | 6.0 | 2 | ACB-10 | 3 x 150 | 840 | 840 | 1980 | X | ACB-10 3x185:270(89),ACB-10 3x240:150(74) | |
| Subtotal of with 2 or more joints cable | | | | | | | | | | | 10,974 | 14,976 | | | |
| (use 6kV cable) | | | | | | | | | | | | | | | |
| 121 | 9 | 397 | 9 | 633 | 1 | 10.0 | 1 | ACB-6 | 3 x 185 | 166 | 166 | 1962 | X | AA10,3x185:116(74) | |
| 122 | 9 | 408 | 9 | 421 | 1 | 10.0 | | ACB-6 | 3 x 120 | 273 | 273 | 1963 | X | | |
| 123 | 9 | 432 | 9 | 440 | 1 | 10.0 | | CB-6 | 3 x 95 | 275 | 275 | 1963 | X | | |
| 124 | 9 | 209 | 9 | 440 | 1 | 10.0 | | AAE-6 | 3 x 185 | 250 | 250 | 1964 | X | | |
| 125 | 9 | 209 | 9 | 449 | 1 | 10.0 | | ACB-6 | 3 x 120 | 230 | 230 | 1964 | X | | |

Appendix 2.3-1(3) 6kV & 10kV Underground Cables to be replaced under the M/P in Nasimi

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (oct'm) | Commiss. Year | Priority | Remarks |
|---------------------------------------|-------------|-------------|-------------|-------------|-----------------------|--------------|-------|------------|------------|------------------|----------------------|---------------|----------|---------|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| 126 | 9 | 449 | 9 | 459 | 1 | 10.0 | | АСБ-6 | 3 x 120 | 130 | 130 | 1964 | X | |
| 127 | 9 | 449 | 9 | 461 | 1 | 10.0 | | АСБ-6 | 3 x 150 | 300 | 300 | 1964 | X | |
| Итого до использования БКВ-ные кабели | | | | | 41 | | | | | 23,572 | 31,576 | | | |
| Total | | | | | 165 | | | | | 79,807 | 92,993 | | | |

Appendix 2.3-1(4) 6kV & 10kV Underground Cables to be replaced under the M/P in Narimanov

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (cst.m) | Commiss. Year | Priority | Remarks |
|---------------|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|---|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| (before 1960) | | | | | | | | | | | | | | |
| 1 | 7 | 70 | 7 | 701 | 2 | 6.0 | 3 | CB-6 | 3 x 50 | 500 | 1,000 | 1926 | I | C6,3x70:80(56);3x95:60(32);3x150:50(76) |
| 2 | 7 | 91 | 7 | 701 | 1 | 6.0 | 2 | CB-6 | 3 x 50 | 720 | 720 | 1926 | I | C6,3x50:540(27);AC10,3x150:50(76) |
| 3 | 7 | 91 | 7 | 262 | 1 | 6.0 | | CB-6 | 3 x 70 | 645 | 645 | 1936 | II | |
| 4 | 6 | 251 | 6 | 252 | 1 | 6.0 | 1 | CB-6 | 3 x 120 | 150 | 150 | 1936 | II | CB-6,3x95:40(68) |
| 5 | 7 | 127 | 7 | 756 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 365 | 365 | 1940 | II | AAIII10,3x150:80(79) |
| 6 | 7 | 756 | 88 | 227 | 1 | 6.0 | 2 | CB-6 | 3 x 50 | 455 | 455 | 1940 | II | AAIII10,3x150:110(79);AC6,3x185:260(-) |
| 7 | 7 | 572 | 88 | 227 | 2 | 6.0 | 2 | CB-6 | 3 x 185 | 555 | 1,110 | 1941 | II | ACB-10 3x185:280(79);AAIII10-10 3x185:165(79) |
| 8 | 6 | 363 | 6 | 623 | 1 | 6.0 | 2 | CB-6 | 3 x 50 | 392 | 392 | 1949 | II | ACB-10 3x150:135(73);AC6 6 3x95:345(61) |
| 9 | 7 | 127 | 7 | 757 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 130 | 130 | 1950 | II | AA10,3x185:30(81) |
| 10 | 7 | 163 | 7 | 164 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 523 | 523 | 1950 | II | AC6,3x50:43(58) |
| 11 | 7 | 165 | 7 | 757 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 355 | 355 | 1950 | III | AA10,3x185:30(81) |
| 12 | 7 | 166 | 7 | 406 | 1 | 6.0 | 2 | ACB-6 | 3 x 95 | 690 | 690 | 1950 | III | AC6,3x95:385(58);3x185:175(62) |
| 13 | 6 | 182 | 6 | 256 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 563 | 563 | 1950 | III | C10,3x185:42(50);AC10,3x150:85(65) |
| 14 | 7 | 128 | 7 | 163 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 499 | 499 | 1952 | III | C6,3x95:105(57) |
| 15 | 6 | 211 | 6 | 315 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 308 | 308 | 1953 | III | C6,3x185:192(59) |
| 16 | 6 | 211 | 6 | 390 | 1 | 6.0 | | CB-6 | 3 x 95 | 75 | 75 | 1953 | III | |
| 17 | 7 | 161 | 6 | 315 | 1 | 6.0 | 5 | CB-6 | 3 x 95 | 753 | 753 | 1954 | III | C6,3x185:177(59);ACB,3x185:50(59);C6,3x70:145(66) |
| 18 | 6 | 171 | 6 | 668 | 1 | 6.0 | 2 | ACB-6 | 3 x 95 | 330 | 330 | 1954 | IV | AC10,3x150:67(75);3x185:55(75) |
| 19 | 6 | 171 | 6 | 488 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 595 | 595 | 1954 | IV | CB-6 3x95:95(54);AAEJL-10 3x185:340(89) |
| 20 | 7 | 205 | 7 | 308 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 255 | 255 | 1954 | IV | C6,3x185:90(59);AC6,3x185:60(59) |
| 21 | 7 | 74 | 7 | 262 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 415 | 415 | 1955 | IV | C6,3x95:22(55);AC10,3x150:125(-) |
| 22 | 7 | 168 | 7 | 264 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 165 | 165 | 1955 | IV | C6,3x70:80(-) |
| 23 | 9 | 185 | 6 | 488 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 330 | 330 | 1955 | IV | AA10,3x120:230(89) |
| 24 | 9 | 185 | 9 | 594 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 783 | 783 | 1955 | IV | AC10,3x185:4(72) |
| 25 | 7 | 202 | 7 | 3312 | 1 | 6.0 | | CB-6 | 3 x 70 | 755 | 755 | 1955 | IV | |
| 26 | 7 | 219 | 7 | 312 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 295 | 295 | 1955 | IV | C6,3x95:50(59);AA10,3x185:100(90) |
| 27 | 7 | 264 | 7 | 375 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 1,785 | 1,785 | 1955 | IV | C6,3x95:125(59);AC6,3x185:420(61) |
| 28 | 6 | 171 | 6 | 475 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 243 | 243 | 1956 | IV | AC6,3x185:73(65);AC10,3x185:110(75) |
| 29 | 7 | 202 | 6 | 267 | 1 | 6.0 | | CB-6 | 3 x 70 | 997 | 997 | 1956 | IV | |
| 30 | 6 | 268 | 6 | 458 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 393 | 393 | 1956 | IV | ACB-6 3x95:40(68) |
| 31 | 7 | 308 | 7 | 503 | 1 | 6.0 | 3 | CB-6 | 3 x 70 | 650 | 650 | 1956 | IV | AC6,3x95:45(59);AA10,3x150:90(66);C6,3x70:145(66) |
| 32 | 6 | 455 | 6 | 458 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 367 | 367 | 1956 | IV | AA10,3x150:180(72) |
| 33 | 7 | 91 | 7 | 128 | 1 | 6.0 | | CB-6 | 3 x 95 | 505 | 505 | 1957 | V | |
| 34 | 6 | 140 | 6 | 317 | 1 | 6.0 | 2 | CB-6 | 3 x 70 | 305 | 305 | 1957 | V | C6,3x95:20(59);AC6,3x95:200(59) |
| 35 | 6 | 140 | 6 | 560 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 595 | 595 | 1957 | V | AC10,3x185:85(69) |
| 36 | 6 | 194 | 6 | 317 | 1 | 6.0 | 1 | CB-6 | 3 x 70 | 390 | 390 | 1957 | V | ACB-6 3x95:200(59) |
| 37 | 7 | 202 | 6 | 343 | 1 | 6.0 | 3 | CB-6 | 3 x 95 | 1,160 | 1,160 | 1957 | V | AC6,3x185:230(60);AA10,3x150:90(66);AC10,3x185:450(66) |
| 38 | 7 | 202 | 88 | 227 | 1 | 6.0 | | CB-6 | 3 x 95 | 1,350 | 1,350 | 1957 | V | |
| 39 | 6 | 458 | 88 | 96 | 1 | 6.0 | 2 | CB-6 | 3 x 150 | 1,138 | 1,138 | 1957 | V | AC6,3x240:155(60);AC10,3x185:43(70) |
| 40 | 6 | 708 | 88 | 96 | 1 | 6.0 | 1 | CB-6 | 3 x 150 | 690 | 690 | 1957 | V | ACB-10 3x185:90(73) |
| 41 | 7 | 74 | 7 | 701 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 377 | 377 | 1958 | VI | AC10,3x150:85(76);175(88) |
| 42 | 7 | 91 | 7 | 152 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 185 | 185 | 1958 | VI | AC10,3x150:135(75) |
| 43 | 7 | 152 | 7 | 572 | 1 | 6.0 | 2 | CB-6 | 3 x 95 | 400 | 400 | 1958 | VI | AC10,3x150:200(74);150(75) |
| 44 | 7 | 163 | 7 | 663 | 1 | 6.0 | 2 | ACB-6 | 3 x 95 | 410 | 410 | 1958 | VI | AC6,3x185:60(59);AA10,3x150:200(89) |
| 45 | 6 | 182 | 9 | 183 | 1 | 6.0 | 4 | ACB-6 | 3 x 185 | 850 | 850 | 1958 | VI | AAE 4x185:80(66);AAE 10 3x185:110(60);AAE 4x185:100(66) |
| 46 | 6 | 186 | 6 | 773 | 1 | 6.0 | | ACB-10 | 3 x 95 | 360 | 360 | 1958 | VI | |
| 47 | 6 | 187 | 6 | 254 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 660 | 660 | 1958 | VI | AC6,3x185:410(63) |
| 48 | 6 | 187 | 6 | 268 | 1 | 6.0 | | ACB-6 | 3 x 95 | 240 | 240 | 1958 | VI | |
| 49 | 6 | 190 | 6 | 374 | 1 | 6.0 | | CB-6 | 3 x 70 | 430 | 430 | 1958 | VI | |
| 50 | 6 | 254 | 6 | 773 | 1 | 6.0 | 1 | ACB-10 | 3 x 95 | 460 | 460 | 1958 | VI | AC10,3x185:410(63) |
| 51 | 7 | 264 | 7 | 406 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 505 | 505 | 1958 | VI | AC6,3x185:175(62) |
| 52 | 7 | 346 | 7 | 569 | 1 | 6.0 | 2 | ACB-6 | 3 x 70 | 550 | 550 | 1958 | VI | AC6,3x95:215(67);AC10,3x185:35(69) |
| 53 | 7 | 278 | 7 | 318 | 1 | 10.0 | 1 | CB-6 | 3 x 50 | 204 | 204 | 1958 | VI | C6,3x70:147(60) |
| 54 | 7 | 278 | 7 | 377 | 1 | 10.0 | 2 | CB-6 | 3 x 70 | 455 | 455 | 1958 | VI | AC6,3x185:110(60);AA10,3x185:165(69) |
| 55 | 7 | 294 | 7 | 319 | 1 | 10.0 | 1 | CB-6 | 3 x 50 | 533 | 533 | 1958 | VI | AC6,3x95:110(59) |
| 56 | 7 | 318 | 7 | 319 | 1 | 10.0 | 2 | CB-6 | 3 x 50 | 275 | 275 | 1958 | VI | C6,3x70:145(60);AC6,3x95:110(59) |
| 57 | 7 | 159 | 7 | 160 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 380 | 380 | 1959 | VII | C10,3x185:80(59);AAIII10,3x185:160(75) |
| 58 | 7 | 161 | 6 | 328 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 350 | 350 | 1959 | VII | AC10,3x185(74) |
| 59 | 6 | 211 | 6 | 316 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 700 | 700 | 1959 | VII | AA,3x150:87(66) |
| 60 | 7 | 282 | 7 | 387 | 1 | 6.0 | 1 | CB-6 | 3 x 185 | 800 | 800 | 1959 | VII | AC6,3x185:300(62) |
| 61 | 7 | 308 | 7 | 406 | 1 | 6.0 | 1 | ACB-6 | 3 x 95 | 975 | 975 | 1959 | VII | AC6,3x185:285(62) |
| 62 | 6 | 316 | 6 | 328 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 210 | 210 | 1959 | VII | AC10,3x185:45(88) |
| 63 | 6 | 617 | 7 | 663 | 1 | 6.0 | 2 | ACB-6 | 3 x 120 | 430 | 430 | 1959 | VII | ACB-6 3x150:30(86);AAE-10 3x150:200(89) |
| 64 | 7 | 63 | 7 | 74 | 1 | 6.0 | 1 | CB-6 | 3 x 95 | 390 | 390 | 1960 | VIII | AC10,3x150:150(88) |

Appendix 2.3-1(4) 6kV & 10kV Underground Cables to be replaced under the M/P in Narimanov

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (cct*m) | Commiss. Year | Priority | Remarks |
|---|-------------|-------------|-------------|-------------|-----------------------|--------------|-------|------------|------------|------------------|----------------------|---------------|----------|--|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| 65 | 7 | 63 | 6 | 617 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 250 | 250 | 1960 | VIII | AC6,3x150:60(86) |
| 66 | 7 | 133 | 7 | 639 | 1 | 6.0 | 2 | CB-6 | 3 x 150 | 237 | 237 | 1960 | VIII | AC6,3x185:30(62);AC10,3x185:115(74) |
| 67 | 7 | 166 | 7 | 402 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 130 | 130 | 1960 | VIII | AC6,3x150:25(62);AA10,3x120:40(89) |
| 68 | 6 | 194 | 6 | 343 | 1 | 6.0 | | ACB-6 | 3 x 120 | 227 | 227 | 1960 | VIII | |
| 69 | 7 | 205 | 7 | 287 | 1 | 6.0 | | ACB-6 | 3 x 120 | 325 | 325 | 1960 | VIII | |
| 70 | 6 | 213 | 6 | 374 | 1 | 6.0 | 2 | ACB-6 | 3 x 95 | 1,536 | 1,536 | 1960 | VIII | CB-6 3x70:320(58);ACB-6 3x150:16(61) |
| 71 | 7 | 219 | 7 | 344 | 1 | 6.0 | | ACB-6 | 3 x 120 | 600 | 600 | 1960 | VIII | |
| 72 | 7 | 280 | 7 | 282 | 1 | 6.0 | | ACB-6 | 3 x 120 | 460 | 460 | 1960 | VIII | |
| 73 | 7 | 280 | 7 | 346 | 1 | 6.0 | 1 | ACB-6 | 3 x 185 | 850 | 850 | 1960 | VIII | AA10,3x185:450(95) |
| 74 | 7 | 281 | 7 | 346 | 1 | 6.0 | 1 | AA-10 | 3x185 | 450 | 450 | 1960 | VIII | AA10,3x185:100(-) |
| 75 | 7 | 282 | 7 | 284 | 1 | 6.0 | 1 | CB-6 | 3 x 50 | 480 | 480 | 1960 | VIII | AC6,3x185:310(60) |
| 76 | 7 | 284 | 88 | 227 | 1 | 6.0 | | ACB-6 | 3x120 | 1,040 | 1,040 | 1960 | VIII | |
| 77 | 7 | 287 | 7 | 356 | 1 | 6.0 | 1 | ACB-6 | 3 x 150 | 623 | 623 | 1960 | VIII | AC6,3x185:218(61) |
| 78 | 7 | 253 | 7 | 403 | 1 | 10.0 | 2 | ACB-6 | 3 x 150 | 215 | 215 | 1960 | VIII | CB-10 3x150:50(67);ACB-10 3x150:180(80) |
| 79 | 7 | 253 | 7 | 456 | 1 | 10.0 | 1 | ACB-6 | 3 x 150 | 625 | 625 | 1960 | VIII | ACB-10 3x150:180(80) |
| 80 | 7 | 278 | 7 | 404 | 1 | 10.0 | 2 | ACB-6 | 3 x 150 | 655 | 655 | 1960 | VIII | AC10,3x150:385(69);C10,3x95:60(71) |
| 81 | 7 | 286 | 7 | 339 | 1 | 10.0 | | ACB-10 | 3 x 120 | 400 | 400 | 1960 | VIII | |
| Subtotal of before 1960 | | | | | 83 | | | | | 42,401 | 43,456 | | | |
| (with 2 or more joints cable) | | | | | | | | | | | | | | |
| 82 | 7 | 350 | 7 | 356 | 1 | 6.0 | 2 | ACB-10 | 3 x 185 | 381 | 381 | 1961 | VIII | AC10,3x150:60(74);AA10,3x150:160(74) |
| 83 | 7 | 365 | 7 | 402 | 1 | 6.0 | 3 | ACB-6 | 3 x 150 | 508 | 508 | 1962 | VIII | AC6,3x185:365(62);AC10,3x185:70(75);AA10,3x150:50(89) |
| 84 | 7 | 392 | 7 | 618 | 1 | 10.0 | 2 | AAAB-10 | 3 x 185 | 595 | 595 | 1964 | IX | AAIII10,3x185:45(76);AA10,3x185:220(73) |
| 85 | 7 | 392 | 7 | 618 | 1 | 10.0 | 2 | AAAB-10 | 3 x 185 | 595 | 595 | 1964 | IX | AAIII10,3x185:45(76);AA10,3x185:220(73) |
| 86 | 6 | 431 | 6 | 537 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 402 | 402 | 1964 | IX | AA10,3x150:175(67);3x185:75(67) |
| 87 | 6 | 196 | 6 | 488 | 1 | 6.0 | 2 | ACB-6 | 3 x 185 | 432 | 432 | 1965 | IX | CB-6 3x3x150:250(66);ACB-6 3x95:170(58) |
| 88 | 6 | 772 | 88 | 227 | 1 | 6.0 | 3 | ACB-10 | 3 x 185 | 1,365 | 1,365 | 1965 | IX | ACB-10 3x150:100(80);ACB-10 3x185:300(76);ACB-10 3x185:300(80) |
| 89 | 7 | 70 | 6 | 515 | 1 | 6.0 | 2 | ACB-6 | 3 x 150 | 200 | 200 | 1966 | IX | AA10,3x185:160(65);105(75) |
| 90 | 6 | 559 | 7 | 644 | 1 | 10.0 | 2 | ACB-10 | 3 x 150 | 1,110 | 1,110 | 1973 | IX | AAAB-10 3 x 150:80(73);ACB-10 3x95:60(74) |
| 91 | 7 | 366 | 7 | 644 | 1 | 10.0 | 2 | CB-10 | 3 x 95 | 1,080 | 1,080 | 1974 | IX | AC10,3x150:920(73);100(74) |
| Subtotal of with 2 or more joints cable | | | | | 10 | | | | | 6,668 | 6,668 | | | |
| (use 6kV cable) | | | | | | | | | | | | | | |
| 92 | 7 | 311 | 7 | 333 | 1 | 10.0 | | ACB-6 | 3 x 120 | 430 | 430 | 1961 | X | |
| 93 | 7 | 333 | 7 | 368 | 1 | 10.0 | | ACB-6 | 3 x 120 | 280 | 280 | 1961 | X | |
| 94 | 7 | 366 | 7 | 368 | 1 | 10.0 | | ACB-6 | 3 x 150 | 310 | 310 | 1961 | X | |
| 95 | 7 | 367 | 7 | 556 | 1 | 10.0 | 1 | ACB-6 | 3 x 185 | 160 | 160 | 1961 | X | AC6,3x150:1010(69) |
| 96 | 7 | 367 | 7 | 404 | 1 | 10.0 | | ACB-6 | 3 x 120 | 316 | 316 | 1962 | X | |
| 97 | 7 | 392 | 7 | 456 | 1 | 10.0 | 1 | ACB-6 | 3 x 95 | 170 | 170 | 1962 | X | AC10,3x185:40(76) |
| 98 | 7 | 404 | 7 | 405 | 1 | 10.0 | | ACB-6 | 3 x 120 | 316 | 316 | 1962 | X | |
| 99 | 7 | 405 | 7 | 474 | 1 | 10.0 | 1 | ACB-6 | 3 x 185 | 643 | 643 | 1962 | X | AC10,3x185:276(65) |
| 100 | 6 | 431 | 6 | 441 | 1 | 10.0 | 1 | ACB-6 | 3 x 150 | 458 | 458 | 1964 | X | ACB-6 3x185:338(64) |
| Subtotal of use 6kV cable | | | | | 9 | | | | | 3,083 | 3,083 | | | |
| Total | | | | | | | | | | 52,152 | 53,207 | | | |

Appendix 2.3-1(5) 6kV & 10kV Underground Cables to be replaced under the M/P in Nizami

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (cct*m) | Commiss. Year | Priority | Remarks |
|--|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|--|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| (before 1960) | | | | | | | | | | | | | | |
| 1 | 8 | 20 | 8 | 21 | 1 | 10.0 | | ACB-6 | 3 x 120 | 410 | 410 | 1948 | II | |
| 2 | 8 | 21 | 8 | 23 | 1 | 10.0 | | ACB-6 | 3 x 70 | 369 | 369 | 1953 | III | |
| 3 | 8 | 21 | 8 | 31 | 1 | 10.0 | | ACB-6 | 3 x 120 | 225 | 225 | 1953 | III | |
| 4 | 8 | 31 | 8 | 32 | 1 | 10.0 | | ACB-6 | 3 x 120 | 225 | 225 | 1953 | III | |
| 5 | 8 | 32 | 8 | 33 | 1 | 10.0 | | ACB-6 | 3 x 95 | 460 | 460 | 1953 | III | |
| 6 | 8 | 29 | 8 | 33 | 1 | 10.0 | | ACB-6 | 3 x 95 | 735 | 735 | 1955 | IV | |
| 7 | 8 | 35 | 8 | 37 | 1 | 10.0 | | ACB-6 | 3 x 95 | 200 | 200 | 1957 | V | |
| 8 | 8 | 25 | 8 | 27 | 1 | 10.0 | 1 | CB-6 | 3 x 50 | 322 | 322 | 1958 | VI | ACB-10 3x150:62(77) |
| 9 | 8 | 29 | 8 | 41 | 1 | 10.0 | | ACB-6 | 3 x 70 | 770 | 770 | 1958 | VI | |
| 10 | 8 | 35 | 8 | 36 | 1 | 10.0 | | ACB-6 | 3 x 95 | 200 | 200 | 1958 | VI | |
| 11 | 8 | 2 | 8 | 7 | 2 | 10.0 | | ACB-6 | 3 x 150 | 300 | 600 | 1960 | VIII | |
| Subtotal of before 1960 | | | | | 12 | | | | | 4,216 | 4,516 | | | |
| (with 2 or more joints cable) | | | | | | | | | | | | | | |
| 12 | 8 | 14 | 8 | 37 | 1 | 10.0 | 2 | ACB-10 | 3 x 95 | 486 | 486 | 1961 | VIII | ACB-10 3x150:240(69),96(87) |
| 13 | 8 | 66 | 8 | 75 | 1 | 10.0 | 2 | ACB-10 | 3 x 185 | 480 | 480 | 1965 | IX | IIACB-10 3x70:30(72),AAIII B-10 3x95:150(71) |
| 14 | 8 | 66 | 8 | 78 | 1 | 10.0 | 2 | ACB-10 | 3 x 185 | 1,200 | 1,200 | 1965 | IX | IIACB-10 3x70:30(72),AAIII B-10 3x95:150(71) |
| 15 | 8 | 18 | 88 | 212 | 1 | 10.0 | 2 | ACB-10 | 3 x 150 | 731 | 731 | 1971 | IX | ACB-10 3x120:366(83),AAIII B-10 3x120:75(95) |
| 16 | 8 | 84 | 88 | 212 | 1 | 10.0 | 2 | ACB-10 | 3 x 120 | 315 | 315 | 1989 | X | AAAB-10 3x185:120(89),AAAB-10 3x120:75(95) |
| Subtotal of with 2 or more joints cable | | | | | 5 | | | | | 3,212 | 3,212 | | | |
| (use 6kV cable) | | | | | | | | | | | | | | |
| 17 | 8 | 11 | 8 | 20 | 1 | 10.0 | | ACB-6 | 3 x 70 | 450 | 450 | 1963 | X | |
| 18 | 8 | 22 | 8 | 31 | 1 | 10.0 | | ACB-6 | 3 x 70 | 140 | 140 | 1964 | X | |
| 19 | 8 | 22 | 8 | 52 | 1 | 10.0 | 1 | ACB-6 | 3 x 70 | 190 | 190 | 1964 | X | AAAB-10 3x95:30(68) |
| 20 | 8 | 52 | 8 | 56 | 1 | 10.0 | | ACB-6 | 3 x 70 | 400 | 400 | 1964 | X | |
| 21 | 8 | 53 | 8 | 55 | 1 | 10.0 | | ACB-6 | 3 x 70 | 730 | 730 | 1964 | X | |
| 22 | 8 | 56 | 8 | 58 | 1 | 10.0 | | ACB-6 | 3 x 120 | 650 | 650 | 1964 | X | |
| 23 | 8 | 1 | 8 | 3 | 1 | 10.0 | 1 | ACB-6 | 3 x 185 | 875 | 875 | 1965 | X | AAAB-10 3x185:400(82) |
| 24 | 8 | 1 | 8 | 16 | 1 | 10.0 | 1 | ACB-6 | 3 x 185 | 435 | 435 | 1965 | X | AAAB-10 3x185:85(70) |
| 25 | 8 | 4 | 8 | 5 | 1 | 10.0 | | ACB-6 | 3 x 150 | 255 | 255 | 1965 | X | |
| 26 | 8 | 5 | 8 | 6 | 1 | 10.0 | 1 | ACB-6 | 3 x 150 | 520 | 520 | 1965 | X | AAIII B-10 3x120:220(85) |
| 27 | 8 | 5 | 8 | 76 | 1 | 10.0 | | ACB-6 | 3 x 150 | 150 | 150 | 1965 | X | |
| 28 | 8 | 11 | 8 | 17 | 1 | 10.0 | | CB-6 | 3 x 95 | 400 | 400 | 1965 | X | |
| 29 | 8 | 28 | 8 | 41 | 1 | 10.0 | | ACB-6 | 3 x 70 | 370 | 370 | 1965 | X | |
| 30 | 8 | 29 | 8 | 46 | 1 | 10.0 | | ACB-6 | 3 x 50 | 512 | 512 | 1965 | X | |
| 31 | 8 | 76 | 8 | 77 | 1 | 10.0 | | ACB-6 | 3 x 120 | 573 | 573 | 1965 | X | |
| 32 | 8 | 77 | 8 | 78 | 1 | 10.0 | | ACB-6 | 3 x 185 | 360 | 360 | 1965 | X | |
| 33 | 8 | 8 | 8 | 31 | 1 | 10.0 | | ACB-6 | 3 x 70 | 350 | 350 | 1967 | X | |
| Subtotal of use 6kV cable | | | | | 17 | | | | | 7,360 | 7,360 | | | |
| Total | | | | | 34 | | | | | 14,788 | 15,088 | | | |

Appendix 2.3-1(6) 6kV & 10kV Underground Cables to be replaced under the M/P in Khatal

| No. | From | | To | | Num. Of Circuit (CCT) | Voltage (kV) | Joint | Cable Type | Cable Size | Route Length (m) | Cable Length (cct*m) | Commiss. Year | Priority | Remarks |
|--|----------------|----------------|----------------|----------------|-----------------------------|-----------------|-------|---------------|---------------|------------------------|----------------------------|------------------|----------|---|
| | Network No. | Station No. | Network No. | Station No. | | | | | | | | | | |
| (before 1960) | | | | | | | | | | | | | | |
| 1 | 13 | 291 | 88 | 1902 | 1 | 10.0 | 3 | ACB-10 | 3 x 120 | 1,200 | 1,200 | 1936 | II | AAE-10.3x185.23(73),AAE-10.3x150.20(70),AAE-10.3x120.16(66) |
| 2 | 13 | 318 | 13 | 319 | 2 | 10.0 | | ACB-10 | 3 x 95 | 610 | 1,220 | 1958 | VI | |
| Subtotal of before 1960 | | | | | 3 | | | | | 1,810 | 2,420 | | | |
| (with 2 or more joints cable) | | | | | | | | | | | | | | |
| 3 | 13 | 290 | 13 | 291 | 1 | 10.0 | 2 | AAE-10 | 3 x 150 | 360 | 360 | 1975 | IX | AAHB-10 3x150:310(79) |
| 4 | 13 | 333 | 88 | 1902 | 1 | 10.0 | 2 | ACB-10 | 3 x 240 | 1,770 | 1,770 | 1976 | IX | ACB-10 3 x 240:150(86),ACB-10 3 x 185:1.620(76) |
| 5 | 13 | 200 | 13 | 202 | 1 | 10.0 | 2 | ACB-10 | 3 x 185 | 600 | 600 | 1977 | X | AAE-10 3x185:90(82),ACB-10:70(82) |
| 6 | 13 | 202 | 88 | 1902 | 1 | 10.0 | 2 | ACB-10 | 3 x 185 | 1,840 | 1,840 | 1977 | X | ACB-10 3x185:90(82),ACB-10 3x95:70(82) |
| Subtotal of with 2 or more joints cable | | | | | 4 | | | | | 4,570 | 4,570 | | | |
| Total | | | | | 7 | | | | | 6,380 | 6,990 | | | |

Appendix 2.3-2(1) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Sabail

| No. | Tr. station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|--------------|-----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 1 | 5 | 2 | 400+630 | 1,030 | 6.0 | KP | 7 | 3 | 1940 | 2 | 1933 | I |
| 2 | 6 | 1 | 630 | 630 | 6.0 | KB | 4 | 1 | 1938 | 2 | 1933 | I |
| 3 | 7 | 2 | 250+400 | 650 | 6.0 | KP | 8 | 3 | 1937 | 2 | 1933 | I |
| 4 | 8 | 2 | 400+630 | 1,030 | 6.0 | KO | 6 | 3 | 1948 | 2 | 1952 | I |
| 5 | 17 | 2 | 400+630 | 1,030 | 6.0 | KP | 6 | 2 | 1953 | 2 | 1932 | I |
| 6 | 20 | 1 | 400 | 400 | 6.0 | KB | 5 | 1 | 1939 | 2 | 1910 | I |
| 7 | 23 | 2 | 400 | 800 | 6.0 | KB | 8 | 4 | 1934 | 2 | 1910 | I |
| 8 | 33 | 2 | 320+630 | 950 | 6.0 | KP | 5 | 1 | 1930 | 2 | 1929 | I |
| 9 | 34 | 2 | 630 | 1,260 | 6.0 | KO | 6 | 5 | 1955 | 3 | 1913 | I |
| 10 | 41 | 1 | 400 | 400 | 6.0 | KB | 5 | 2 | 1928 | 2 | 1959 | I |
| 11 | 60 | 1 | 400 | 400 | 6.0 | KO | 2 | 0 | 1937 | 5 | 1931 | I |
| 12 | 101 | 1 | 400 | 400 | 6.0 | KO | 4 | 2 | 1950 | 1 | 1960 | II |
| 13 | 129 | 0 | - | 0 | 6.0 | KB | 4 | 2 | 1932 | 2 | 1910 | II |
| 14 | 200 | 2 | 630 | 1,260 | 6.0 | KO | 6 | 3 | 1939 | 2 | 1940 | II |
| 15 | 393 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1962 | 1 | 1962 | II |
| 16 | 2 | 1 | 630 | 630 | 6.0 | KO | 7 | 6 | 1920 | 1 | 1910 | II |
| 17 | 10 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1964 | 1 | 1912 | II |
| 18 | 32 | 4 | 3x320+560 | 1,520 | 6.0 | KO | 6 | 5 | 1940 | 1 | 1912 | II |
| 19 | 354 | 1 | 320 | 320 | 6.0 | KB | 4 | 3 | 1961 | 1 | 1928 | II |
| 20 | 348 | 2 | 630 | 1,260 | 6.0 | KB | 5 | 1 | 1962 | 2 | 1928 | II |
| 21 | 53 | 1 | 315 | 315 | 6.0 | KB | 3 | 1 | 1938 | 2 | 1930 | III |
| 22 | 98 | 0 | - | 0 | 6.0 | KB | 1 | 0 | 1934 | 5 | 1931 | III |
| 23 | 60 | 2 | 400+630 | 1,030 | 10.0 | KO | 7 | 4 | 1937 | 5 | 1931 | III |
| 24 | 98 | 2 | 400 | 800 | 10.0 | KB | 6 | 2 | 1934 | 5 | 1931 | III |
| 25 | 519 | 1 | 630 | 630 | 6.0 | KO | 7 | 2 | 1966 | 2 | 1932 | III |
| 26 | 22 | 1 | 400 | 400 | 6.0 | KB | 4 | 0 | 1966 | 2 | 1933 | III |
| 27 | 201 | 1 | 320 | 320 | 6.0 | KO | 3 | 0 | 1937 | 2 | 1940 | III |
| 28 | 57 | 2 | 630 | 1,260 | 6.0 | KO | 4 | 4 | 1948 | 5 | 1948 | III |
| 29 | 411 | 2 | 400+320 | 720 | 6.0 | KB | 6 | 4 | 1952 | 5 | 1948 | III |
| 30 | 49 | 2 | 320 | 640 | 6.0 | KB | 2 | 0 | 1952 | 5 | 1949 | III |
| 31 | 77 | 2 | 320 | 640 | 6.0 | KB | 6 | 4 | 1952 | 5 | 1949 | III |
| 32 | 291 | 1 | 630 | 630 | 6.0 | KB | 4 | 3 | 1961 | 2 | 1952 | IV |
| 33 | 462 | 1 | 400 | 400 | 6.0 | PMT | 2 | 0 | 1964 | 2 | 1954 | IV |
| 34 | 11 | 2 | 400+630 | 1,030 | 6.0 | KB | 5 | 2 | 1955 | 2 | 1954 | IV |
| 35 | 236 | 2 | 560+630 | 1,190 | 6.0 | KB | 5 | 3 | 1950 | 5 | 1955 | V |
| 36 | 4 | 1 | 400 | 400 | 6.0 | KP | 4 | 0 | 1960 | 2 | 1957 | VI |
| 37 | 107 | 1 | 400 | 400 | 6.0 | PMT | 3 | 0 | 1960 | 2 | 1957 | VI |
| 38 | 301 | 2 | 630 | 1,260 | 6.0 | KO | 7 | 2 | 1964 | 2 | 1957 | VI |
| 39 | 103 | 1 | 400 | 400 | 6.0 | PMT | 4 | 1 | 1959 | 1 | 1958 | VII |
| 40 | 453 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1964 | 1 | 1958 | VII |
| 41 | 550 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1970 | 1 | 1958 | VII |
| 42 | 105 | 1 | 400 | 400 | 6.0 | KB | 4 | 2 | 1958 | 1 | 1958 | VII |
| 43 | 321 | 2 | 400+630 | 1,030 | 6.0 | KO | 6 | 2 | 1958 | 2 | 1959 | VIII |
| 44 | 102 | 1 | 320 | 320 | 6.0 | KO | 3 | 1 | 1958 | 1 | 1959 | VIII |
| 45 | 476 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1965 | 1 | 1959 | VIII |
| 46 | 247 | 1 | 320 | 320 | 6.0 | KO | 5 | 2 | 1953 | 1 | 1959 | VIII |
| 47 | 179 | 1 | 400 | 400 | 6.0 | KB | 4 | 1 | 1960 | 5 | 1959 | VIII |
| 48 | 320 | 0 | - | 0 | 6.0 | KB | 3 | 1 | 1957 | 5 | 1959 | VIII |
| 49 | 322 | 1 | 250 | 250 | 6.0 | PMT | 3 | 0 | 1959 | 1 | 1959 | VIII |
| 50 | 325 | 1 | 630 | 630 | 10.0 | KB | 4 | 2 | 1962 | 5 | 1960 | IX |
| Total | | 69 | | 31,695 | | | 233 | 97 | | | | |

Appendix 2.3-2(2) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Yasamal

| No. | Tr. station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|-----|-----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 1 | 18 | 1 | 400 | 400 | 6.0 | KB | 3 | 1 | 1940 | 3 | 1935 | I |
| 2 | 19 | 1 | 630 | 630 | 6.0 | KO | 4 | 3 | 1940 | 3 | 1933 | I |
| 3 | 26 | 1 | 630 | 630 | 6.0 | KB | 6 | 3 | 1935 | 2 | 1928 | I |
| 4 | 27 | 2 | 400+630 | 1,030 | 6.0 | KP | 8 | 3 | 1939 | 3 | 1933 | I |
| 5 | 29 | 2 | 630 | 1,260 | 6.0 | KB | 5 | 3 | 1930 | 4 | 1935 | I |
| 6 | 35 | 1 | 400 | 400 | 6.0 | KP | 4 | 2 | 1935 | 3 | 1929 | I |
| 7 | 38 | 2 | 630 | 1260 | 6.0 | KO | 5 | 2 | 1938 | 3 | 1951 | I |
| 8 | 39 | 2 | 320 | 640 | 6.0 | KO | 6 | 2 | 1946 | 4 | 1953 | I |
| 9 | 104 | 1 | 630 | 630 | 6.0 | KO | 3 | 1 | 1949 | 4 | 1952 | II |
| 10 | 114 | 1 | 630 | 630 | 6.0 | KO | 3 | 1 | 1956 | 4 | 1957 | II |
| 11 | 132 | 1 | 1,000 | 1000 | 6.0 | KO | 4 | 2 | 1951 | 4 | 1954 | II |
| 12 | 222 | 2 | 400+630 | 1,030 | 6.0 | KO | 7 | 4 | 1956 | 4 | 1935 | II |
| 13 | 16 | 1 | 630 | 630 | 6.0 | KP | 3 | 1 | 1942 | 3 | 1929 | III |
| 14 | 28 | 2 | 400+630 | 1,030 | 6.0 | KP | 8 | 4 | 1961 | 3 | 1929 | III |
| 15 | 85 | 1 | 630 | 630 | 6.0 | KO | 8 | 6 | 1936 | 3 | 1936 | III |
| 16 | 83 | 2 | 320 | 640 | 6.0 | KO | 6 | 2 | 1966 | 4 | 1936 | III |
| 17 | 378 | 1 | 630 | 630 | 6.0 | KB | 4 | 1 | 1936 | 4 | 1936 | III |
| 18 | 99 | 2 | 630 | 1,260 | 6.0 | KO | 6 | 2 | 1946 | 4 | 1952 | IV |
| 19 | 123 | 2 | 630+400 | 1030 | 6.0 | KO | 6 | 2 | 1968 | 4 | 1952 | IV |
| 20 | 235 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1956 | 4 | 1952 | IV |
| 21 | 383 | 1 | 320 | 320 | 6.0 | KB | 4 | 2 | 1958 | 4 | 1953 | IV |
| 22 | 529 | 1 | 320 | 320 | 6.0 | KO | 4 | 3 | 1953 | 4 | 1953 | IV |
| 23 | 14 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1958 | 3 | 1954 | IV |
| 24 | 30 | 3 | 2x560+630 | 1,750 | 6.0 | KO | 7 | 2 | 1968 | 4 | 1954 | IV |
| 25 | 206 | 1 | 400 | 400 | 6.0 | KB | 4 | 1 | 1954 | 4 | 1954 | V |
| 26 | 296 | 1 | 630 | 630 | 6.0 | PMT | 3 | 0 | 1957 | 4 | 1954 | V |
| 27 | 423 | 1 | 400 | 400 | 6.0 | PMT | 3 | 0 | 1963 | 4 | 1954 | V |
| 28 | 134 | 1 | 630 | 630 | 6.0 | KO | 5 | 2 | 1940 | 4 | 1954 | V |
| 29 | 472 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1965 | 4 | 1954 | V |
| 30 | 137 | 1 | 560 | 560 | 6.0 | KO | 5 | 2 | 1954 | 4 | 1954 | V |
| 31 | 551 | 2 | 400 | 800 | 6.0 | KO | 6 | 2 | 1969 | 3 | 1955 | V |
| 32 | 342 | 1 | 1,000 | 1,000 | 6.0 | KO | 4 | 2 | 1962 | 4 | 1955 | V |
| 33 | 124 | 3 | 320+2x400 | 1,120 | 6.0 | KB | 7 | 5 | 1962 | 3 | 1955 | V |
| 34 | 273 | 1 | 400 | 400 | 6.0 | KB | 4 | 1 | 1956 | 3 | 1955 | V |
| 35 | 144 | 2 | 250+560 | 810 | 6.0 | KB | 4 | 2 | 1950 | 4 | 1955 | V |
| 36 | 289 | 1 | 560 | 560 | 6.0 | KO | 4 | 1 | 1958 | 3 | 1955 | V |
| 37 | 277 | 1 | 250 | 250 | 6.0 | KO | 4 | 2 | 1969 | 4 | 1955 | V |
| 38 | 288 | 2 | 400 | 800 | 6.0 | KO | 8 | 5 | 1962 | 4 | 1955 | V |
| 39 | 385 | 1 | 400 | 400 | 6.0 | KO | 4 | 1 | 1962 | 4 | 1955 | V |
| 40 | 207 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1954 | 4 | 1956 | VI |
| 41 | 90 | 1 | 320 | 320 | 6.0 | KO | 4 | 0 | 1951 | 3 | 1957 | VI |
| 42 | 272 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1962 | 3 | 1957 | VI |
| 43 | 216 | 1 | 560 | 560 | 6.0 | KO | 4 | 0 | 1958 | 4 | 1957 | VI |
| 44 | 118 | 1 | 320 | 320 | 6.0 | KB | 6 | 5 | 1960 | 3 | 1957 | VI |
| 45 | 121 | 2 | 320+400 | 720 | 6.0 | KO | 6 | 3 | 1956 | 3 | 1957 | VI |
| 46 | 391 | 1 | 1,000 | 1000 | 6.0 | KO | 5 | 2 | 1963 | 3 | 1957 | VI |
| 47 | 174 | 1 | 320 | 320 | 6.0 | KB | 5 | 1 | 1954 | 4 | 1957 | VI |
| 48 | 506 | 2 | 320 | 640 | 6.0 | KO | 6 | 2 | 1966 | 4 | 1957 | VI |
| 49 | 208 | 2 | 560+630 | 1190 | 6.0 | KO | 7 | 4 | 1958 | 3 | 1957 | VI |
| 50 | 394 | 6 | x320+2x560 | 2400 | 6.0 | KO | 13 | 8 | 1962 | 3 | 1957 | VII |
| 51 | 135 | 1 | 630 | 630 | 6.0 | PMT | 3 | 0 | 1958 | 4 | 1958 | VII |
| 52 | 477 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1965 | 3 | 1958 | VII |
| 53 | 92 | 1 | 630 | 630 | 6.0 | KB | 3 | 0 | 1956 | 4 | 1958 | VII |
| 54 | 299 | 1 | 630 | 630 | 6.0 | KO | 4 | 3 | 1958 | 3 | 1958 | VII |
| 55 | 398 | 2 | 630 | 1260 | 6.0 | PMT | 6 | 3 | 1962 | 4 | 1958 | VII |
| 56 | 297 | 1 | 400 | 400 | 6.0 | KO | 6 | 4 | 1962 | 3 | 1958 | VII |
| 57 | 347 | 1 | 320 | 320 | 6.0 | KO | 4 | 0 | 1966 | 4 | 1958 | VII |
| 58 | 290 | 1 | 400 | 400 | 6.0 | KB | 4 | 2 | 1958 | 3 | 1958 | VII |
| 59 | 457 | 1 | 560 | 560 | 6.0 | KO | 4 | 1 | 1964 | 3 | 1958 | VII |

Appendix 2.3-2(2) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Yasamal

| No. | Tr.station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|--------------|----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 60 | 508 | 1 | 400 | 400 | 6.0 | KO | 4 | 1 | 1966 | 4 | 1958 | VII |
| 61 | 292 | 1 | 320 | 320 | 6.0 | KB | 6 | 3 | 1969 | 4 | 1959 | VIII |
| 62 | 298 | 1 | 560 | 560 | 6.0 | KO | 4 | 2 | 1961 | 4 | 1959 | IX |
| 63 | 136 | 1 | 630 | 630 | 6.0 | KP | 4 | 2 | 1954 | 4 | 1959 | IX |
| 64 | 172 | 1 | 320 | 320 | 6.0 | KB | 4 | 1 | 1953 | 4 | 1959 | IX |
| 65 | 238 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1956 | 4 | 1959 | IX |
| 66 | 460 | 2 | 180 | 360 | 6.0 | KO | 6 | 2 | 1968 | 4 | 1959 | IX |
| 67 | 361 | 4 | x400+2x18 | 1160 | 6.0 | KB | 6 | 0 | 1961 | 2 | 1959 | IX |
| 68 | 260 | 1 | 320 | 320 | 6.0 | KB | 4 | 2 | 1958 | 3 | 1960 | IX |
| 69 | 327 | 3 | 2x560+630 | 1,750 | 6.0 | KO | 8 | 5 | 1959 | 3 | 1960 | IX |
| 70 | 139 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1956 | 4 | 1960 | IX |
| 71 | 130 | 2 | 630 | 1260 | 6.0 | KO | 12 | 10 | 1950 | 9 | 1960 | IX |
| 72 | 417 | 1 | 320 | 320 | 6.0 | KP | 4 | 1 | 1968 | 9 | 1960 | IX |
| 73 | 340 | 3 | 2x320+560 | 1200 | 6.0 | KO | 8 | 5 | 1967 | 3 | 1960 | IX |
| 74 | 338 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1959 | 4 | 1960 | IX |
| 75 | 314 | 1 | 560 | 560 | 6.0 | PMT | 4 | 1 | 1956 | 4 | 1960 | IX |
| 76 | 324 | 2 | 1000 | 2000 | 6.0 | KB | 7 | 3 | 1960 | 4 | 1960 | IX |
| 77 | 498 | 2 | 400 | 800 | 6.0 | KO | 6 | 2 | 1967 | 3 | 1960 | IX |
| 78 | 341 | 3 | 2x320+750 | 1390 | 6.0 | KB | 7 | 6 | 1962 | 17 | 1960 | IX |
| 79 | 351 | 4 | 320 | 1,280 | 6.0 | KO | 14 | 8 | 1961 | 3 | 1960 | IX |
| Total | | 120 | | 57,590 | | | 413 | 183 | | | | |

Appendix 2.3-2(3) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Nasimi

| No. | Tr. station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|-----|-----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 1 | 15 | 1 | 400 | 400 | 6.0 | KO | 3 | 1 | 1941 | 3 | 1927 | I |
| 2 | 44 | 2 | 320+630 | 950 | 6.0 | KP | 4 | 1 | 1938 | 2 | 1911 | I |
| 3 | 47 | 2 | 400+630 | 1,030 | 6.0 | KB | 4 | 2 | 1935 | 3 | 1922 | I |
| 4 | 48 | 2 | 320+630 | 950 | 6.0 | KB | 6 | 3 | 1935 | 3 | 1922 | I |
| 5 | 50 | 1 | 630 | 630 | 6.0 | KP | 4 | 2 | 1953 | 3 | 1928 | I |
| 6 | 58 | 1 | 630 | 630 | 10 | KO | 4 | 1 | 1927 | | 1927 | I |
| 7 | 68 | 2 | 400+630 | 1030 | 6.0 | KO | 9 | 4 | 1930 | 6 | 1931 | I |
| 8 | 93 | 1 | 315 | 315 | 6.0 | KO | 4 | 2 | 1936 | 5 | 1959 | I |
| 9 | 175 | 2 | 400 | 800 | 6.0 | KO | 6 | 4 | 1952 | 6 | 1955 | II |
| 10 | 302 | 2 | 400+630 | 1030 | 6.0 | KO | 6 | 2 | 1963 | 6 | 1955 | II |
| 11 | 45 | 1 | 630 | 630 | 6.0 | KP | 4 | 4 | 1950 | 5 | 1911 | II |
| 12 | 81 | 2 | 400+320 | 720 | 6.0 | KB | 6 | 3 | 1952 | 5 | 1912 | II |
| 13 | 214 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1947 | 5 | 1913 | II |
| 14 | 71 | 1 | 400 | 400 | 6.0 | KB | 5 | 2 | 1961 | 5 | 1920 | II |
| 15 | 64 | 4 | 2x630+400 | 1660 | 6.0 | KO | 19 | 12 | 1970 | 5 | 1923 | II |
| 16 | 65 | 1 | 400 | 400 | 6.0 | KO | 6 | 2 | 1961 | 5 | 1923 | II |
| 17 | 75 | 2 | 320+630 | 950 | 6.0 | KP | 6 | 4 | 1928 | 5 | 1923 | II |
| 18 | 67 | 2 | 400 | 800 | 6.0 | KB | 12 | 6 | 1928 | 6 | 1926 | II |
| 19 | 51 | 2 | 400+630 | 1030 | 6.0 | KP | 4 | 2 | 1960 | 3 | 1931 | III |
| 20 | 87 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1933 | 6 | 1931 | III |
| 21 | 89 | 2 | 630 | 1260 | 6.0 | KO | 8 | 6 | 1960 | 6 | 1931 | III |
| 22 | 526 | 1 | 630 | 630 | 6.0 | KB | 3 | 0 | 1930 | 6 | 1931 | III |
| 23 | 326 | 1 | 320 | 320 | 6.0 | KO | 5 | 3 | 1959 | 5 | 1949 | III |
| 24 | 170 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1949 | 6 | 1950 | IV |
| 25 | 226 | 1 | 320 | 320 | 6.0 | KB | 3 | 0 | 1939 | 6 | 1950 | IV |
| 26 | 231 | 2 | 560 | 1120 | 6.0 | KO | 6 | 2 | 1964 | 6 | 1950 | IV |
| 27 | 256 | 1 | 400 | 400 | 6.0 | KO | 4 | 1 | 1966 | 6 | 1950 | IV |
| 28 | 79 | 1 | 630 | 630 | 6.0 | KB | 4 | 1 | 1940 | 5 | 1951 | IV |
| 29 | 173 | 1 | 630 | 630 | 6.0 | KO | 4 | 3 | 1949 | 5 | 1951 | IV |
| 30 | 225 | 1 | 400 | 400 | 6.0 | KP | 4 | 2 | 1938 | 5 | 1951 | IV |
| 31 | 138 | 1 | 630 | 630 | 6.0 | KO | 4 | 3 | 1958 | 5 | 1953 | IV |
| 32 | 86 | 1 | 400 | 400 | 6.0 | KO | 10 | 4 | 1964 | 6 | 1954 | V |
| 33 | 155 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1954 | 5 | 1954 | V |
| 34 | 156 | 1 | 320 | 320 | 6.0 | KP | 4 | 1 | 1954 | 5 | 1954 | V |
| 35 | 180 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1958 | 5 | 1954 | V |
| 36 | 310 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1959 | 5 | 1954 | V |
| 37 | 177 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1957 | 6 | 1955 | VI |
| 38 | 189 | 1 | 630 | 630 | 6.0 | PMT | 1 | 0 | 1956 | 4 | 1955 | VI |
| 39 | 197 | 1 | 560 | 560 | 6.0 | KO | 4 | 0 | 1957 | 9 | 1955 | VI |
| 40 | 221 | 2 | 630 | 1260 | 6.0 | KP | 6 | 5 | 1956 | 9 | 1955 | VI |
| 41 | 232 | 2 | 630+560 | 1190 | 6.0 | KO | 5 | 3 | 1960 | 9 | 1955 | VI |
| 42 | 233 | 2 | 320 | 640 | 6.0 | KO | 5 | 3 | 1960 | 9 | 1955 | VI |
| 43 | 240 | 2 | 320 | 640 | 6.0 | KO | 6 | 3 | 1944 | 5 | 1956 | VI |
| 44 | 265 | 1 | 630 | 630 | 6.0 | KB | 4 | 2 | 1965 | 5 | 1956 | VI |
| 45 | 154 | 1 | 630 | 630 | 6.0 | KO | 6 | 4 | 1959 | 5 | 1957 | VII |
| 46 | 158 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1948 | 5 | 1957 | VII |
| 47 | 176 | 1 | 320 | 320 | 6.0 | KP | 5 | 1 | 1958 | 6 | 1957 | VII |
| 48 | 271 | 1 | 630 | 630 | 6.0 | KO | 6 | 4 | 1948 | 5 | 1957 | VII |
| 49 | 178 | 1 | 320 | 320 | 6.0 | KB | 4 | 1 | 1958 | 6 | 1958 | VIII |
| 50 | 183 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1957 | 9 | 1958 | VIII |
| 51 | 188 | 2 | 320+630 | 950 | 6.0 | KO | 5 | 3 | 1960 | 9 | 1958 | VIII |
| 52 | 426 | 1 | 320 | 320 | 6.0 | KO | 7 | 3 | 1963 | 5 | 1958 | VIII |
| 53 | 463 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1968 | 4 | 1958 | VIII |
| 54 | 492 | 2 | 630+320 | 950 | 6.0 | KO | 9 | 3 | 1967 | 5 | 1958 | VIII |
| 55 | 217 | 2 | 320 | 640 | 6.0 | KB | 7 | 6 | 1960 | 5 | 1959 | IX |
| 56 | 313 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1962 | 9 | 1959 | IX |
| 57 | 532 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1964 | 5 | 1959 | IX |
| 58 | 151 | 1 | 320+400 | 720 | 6.0 | KO | 5 | 4 | 1955 | 9 | 1960 | X |
| 59 | 199 | 2 | 100+320 | 420 | 6.0 | KO | 6 | 2 | 1963 | 9 | 1960 | X |

Appendix 2.3-2(3) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Nasimi

| No. | Tr. station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|--------------|-----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 60 | 203 | 2 | 320 | 640 | 6.0 | KP | 8 | 5 | 1960 | 9 | 1960 | X |
| 61 | 323 | 1 | 400 | 400 | 6.0 | KO | 4 | 1 | 1960 | 6 | 1960 | X |
| 62 | 334 | 2 | 400+630 | 1,030 | 6.0 | KO | 4 | 1 | 1960 | 5 | 1960 | X |
| 63 | 336 | 1 | 630 | 630 | 6.0 | KO | 5 | 2 | 1962 | 9 | 1960 | X |
| 64 | 345 | 2 | 20 | 40 | 6.0 | KO | 13 | 8 | 1960 | 5 | 1960 | X |
| 65 | 380 | 2 | 320 | 640 | 6.0 | KO | 6 | 2 | 1962 | 9 | 1960 | X |
| 66 | 381 | 2 | 630 | 1,260 | 6.0 | KO | 6 | 2 | 1960 | 9 | 1960 | X |
| 67 | 470 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1964 | 9 | 1960 | X |
| 68 | 478 | 1 | 320 | 320 | 6.0 | KP | 4 | 3 | 1950 | 6 | 1960 | X |
| 69 | 522 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1967 | 6 | 1960 | X |
| Total | | 97 | | 44,165 | | | 368 | 173 | | | | |

Appendix 2.3-2(4) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Narimanov

| No. | Tr. station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|--------------|-----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 1 | 211 | 1 | 400 | 400 | 6.0 | KO | 4 | 3 | 1960 | 6 | 1953 | II |
| 2 | 212 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1960 | | | II |
| 3 | 70 | 1 | 630 | 630 | 6.0 | KO | 5 | 2 | 1925 | 7 | 1926 | II |
| 4 | 91 | 2 | 400+630 | 1030 | 6.0 | KO | 9 | 5 | 1927 | 7 | 1926 | II |
| 5 | 127 | 2 | 180+320 | 500 | 6.0 | KO | 7 | 2 | 1940 | 7 | 1940 | III |
| 6 | 572 | 2 | 400+630 | 1030 | 6.0 | KO | 6 | 3 | 1967 | 7 | 1941 | III |
| 7 | 363 | 1 | 400 | 400 | 6.0 | KO | 4 | 2 | 1963 | 6 | 1949 | III |
| 8 | 163 | 1 | 630 | 630 | 6.0 | KB | 4 | 3 | 1956 | 7 | 1950 | IV |
| 9 | 165 | 1 | 400 | 400 | 6.0 | KP | 4 | 2 | 1940 | 7 | 1950 | IV |
| 10 | 166 | 1 | 320 | 320 | 6.0 | KO | 4 | 1 | 1950 | 7 | 1950 | IV |
| 11 | 406 | 2 | 320+630 | 950 | 6.0 | KO | 6 | 2 | 1962 | 7 | 1950 | IV |
| 12 | 182 | 2 | 320 | 640 | 6.0 | KP | 6 | 2 | 1960 | 6 | 1950 | IV |
| 13 | 488 | 1 | 400 | 400 | 6.0 | KO | 5 | 2 | 1965 | 9 | 1954 | V |
| 14 | 205 | 2 | 400+630 | 1,030 | 6.0 | KO | 6 | 2 | 1952 | 7 | 1954 | V |
| 15 | 308 | 2 | 180+630 | 810 | 6.0 | KO | 4 | 1 | 1960 | 7 | 1954 | V |
| 16 | 168 | 1 | 630 | 630 | 6.0 | KP | 4 | 2 | 1949 | 7 | 1955 | V |
| 17 | 185 | 1 | 320 | 320 | 6.0 | KO | 4 | 3 | 1957 | 9 | 1955 | V |
| 18 | 202 | 2 | 630 | 1260 | 6.0 | KO | 17 | 10 | 1945 | 7 | 1955 | VI |
| 19 | 268 | 1 | 400 | 400 | 6.0 | KO | 4 | 1 | 1950 | 6 | 1956 | VI |
| 20 | 458 | 1 | 320 | 320 | 6.0 | KO | 5 | 2 | 1967 | 6 | 1956 | VI |
| 21 | 503 | 1 | 320 | 320 | 6.0 | PMT | 4 | 1 | 1966 | 7 | 1956 | VI |
| 22 | 140 | 1 | 320 | 320 | 6.0 | KP | 4 | 2 | 1960 | 6 | 1957 | VII |
| 23 | 317 | 1 | 630 | 630 | 6.0 | KO | 4 | 1 | 1960 | 6 | 1957 | VII |
| 24 | 194 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1960 | 6 | 1957 | VII |
| 25 | 343 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1961 | 6 | 1957 | VII |
| 26 | 152 | 1 | 630 | 630 | 6.0 | PMT | 3 | 0 | 1958 | 7 | 1958 | VII |
| 27 | 186 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1959 | 6 | 1958 | VII |
| 28 | 187 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1959 | 6 | 1958 | VIII |
| 29 | 254 | 2 | 560 | 1,120 | 6.0 | KO | 6 | 3 | 1964 | 6 | 1958 | VIII |
| 30 | 190 | 1 | 320 | 320 | 6.0 | KO | 3 | 1 | 1957 | 6 | 1958 | VIII |
| 31 | 374 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1961 | 6 | 1958 | VIII |
| 32 | 278 | 1 | 315 | 315 | 10.0 | KB | 4 | 2 | 1959 | 7 | 1958 | VIII |
| 33 | 318 | 1 | 315 | 315 | 10.0 | KB | 3 | 0 | 1960 | 7 | 1958 | VIII |
| 34 | 377 | 2 | 315+400 | 715 | 10.0 | KO | 6 | 2 | 1959 | 7 | 1958 | VIII |
| 35 | 294 | 1 | 630 | 630 | 10.0 | KB | 4 | 2 | 1958 | 7 | 1958 | VIII |
| 36 | 319 | 2 | 250 | 500 | 10.0 | KO | 6 | 2 | 1958 | 7 | 1958 | VIII |
| 37 | 160 | 2 | 400 | 800 | 6.0 | KB | 5 | 1 | 1960 | 6 | 1959 | IX |
| 38 | 316 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1960 | 6 | 1959 | IX |
| 39 | 282 | 2 | 400+630 | 1030 | 6.0 | KO | 6 | 3 | 1950 | 7 | 1959 | IX |
| 40 | 387 | 2 | 400+630 | 1030 | 6.0 | KO | 7 | 2 | 1960 | 7 | 1959 | IX |
| 41 | 63 | 1 | 320 | 320 | 6.0 | KO | 4 | 2 | 1960 | 7 | 1960 | X |
| 42 | 133 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1958 | 7 | 1960 | X |
| 43 | 402 | 2 | 320 | 640 | 6.0 | KO | 7 | 2 | 1964 | 7 | 1960 | X |
| 44 | 287 | 1 | 630 | 630 | 6.0 | KO | 4 | 2 | 1946 | 7 | 1960 | X |
| 45 | 213 | 1 | 560 | 560 | 6.0 | KO | 4 | 1 | 1956 | 6 | 1960 | X |
| 46 | 280 | 2 | 400+630 | 1030 | 6.0 | KO | 6 | 4 | 1940 | 7 | 1960 | X |
| 47 | 281 | 1 | 400 | 400 | 6.0 | KO | 1 | 1 | 1953 | 7 | 1960 | X |
| 48 | 284 | 1 | 630 | 630 | 6.0 | KP | 3 | 0 | 1943 | 7 | 1960 | X |
| 49 | 356 | 1 | 400 | 400 | 6.0 | PMT | 4 | 2 | 1962 | 7 | 1960 | X |
| 50 | 403 | 2 | 630 | 1260 | 10.0 | KO | 6 | 2 | 1967 | 7 | 1960 | X |
| 51 | 456 | 2 | 400 | 800 | 10.0 | KO | 4 | 1 | 1951 | 7 | 1960 | X |
| 52 | 404 | 2 | 400+630 | 1,030 | 10.0 | KO | 6 | 2 | 1964 | 7 | 1960 | X |
| 53 | 286 | 2 | 630+400 | 1,030 | 10.0 | KO | 7 | 2 | 1954 | 7 | 1960 | X |
| 54 | 339 | 2 | 400+630 | 1030 | 10.0 | KO | 6 | 1 | 1959 | 7 | 1960 | X |
| Total | | 75 | | 34,335 | | | 267 | 110 | | | | |

Appendix 2.3-2(5) 6kV & 10kV Transformer Stations to be rehabilitated under the M/P in Khatai

| No. | Tr.station No. | Transformers | | | Primary Voltage (kV) | Type of Station | Num. of Panel (nos) | Circuit Breaker (nos) | Comms. Year of Tr. St | Network Area | Comms. Year of UG Cables | Priority |
|--------------|----------------|--------------|-----------------|------------------|----------------------|-----------------|---------------------|-----------------------|-----------------------|--------------|--------------------------|----------|
| | | Unit (nos) | Unit Cap. (kVA) | Total Cap. (kVA) | | | | | | | | |
| 1 | 20 | 1 | 400 | 400 | 10.0 | KO | 7 | 4 | 1950 | 8 | 1948 | III |
| 2 | 21 | 1 | 400 | 400 | 10.0 | KO | 6 | 3 | 1950 | 8 | 1948 | III |
| 3 | 31 | 1 | 400 | 400 | 10.0 | KO | 5 | 3 | 1962 | 8 | 1953 | IV |
| 4 | 32 | 2 | 400 | 800 | 10.0 | KO | 6 | 2 | 1958 | 8 | 1953 | IV |
| 5 | 33 | 2 | 630 | 1,260 | 10.0 | KO | 6 | 1 | 1958 | 8 | 1953 | IV |
| 6 | 29 | 2 | 630 | 1,260 | 10.0 | KO | 8 | 5 | 1953 | 8 | 1955 | VI |
| 7 | 35 | 1 | 320 | 320 | 10.0 | KO | 6 | 3 | 1963 | 8 | 1957 | VII |
| 8 | 27 | 1 | 400 | 400 | 10.0 | KO | 4 | 2 | 1958 | 8 | 1958 | VIII |
| 9 | 41 | 1 | 630 | 630 | 10.0 | KO | 4 | 2 | 1956 | 8 | 1958 | VIII |
| 10 | 36 | 1 | 400 | 400 | 10.0 | KO | 6 | 3 | 1958 | 8 | 1958 | VIII |
| Total | | 13 | | 6,270 | | | 58 | 28 | | | | |

Appendix 3.5-1 Transformer stations related to voltage augmentation (phase I)

| Existing Facilities | | | | | | | | | | |
|---------------------|-----------------|--------------|------------|------------|-----------------|-----------------|---------------|--------------|----|--|
| No. | Tr. Station No. | Transformers | | | Prim. Volt (kV) | Type of Station | Commiss. Year | Priority (a) | | |
| | | Unit (nos) | No.1 (kVA) | No.2 (kVA) | | | | | | |
| 1 | 4 (b) | 1 | 400 | | 400 | 6.0 | KP | 1960 | 36 | |
| 2 | 5 | 2 | 400 | 630 | 1,030 | 6.0 | KP | 1940 | 1 | |
| 3 | 6 | 1 | 630 | | 630 | 6.0 | KB | 1938 | 2 | |
| 4 | 7 (c) | 2 | 250 | 400 | 650 | 6.0 | KP | 1937 | 3 | |
| 5 | 11 | 2 | 400 | 630 | 1,030 | 6.0 | KB | 1955 | 34 | |
| 6 | 17 | 2 | 400 | 630 | 1,030 | 6.0 | KP | 1953 | 5 | |
| 7 | 21 | 2 | 1,000 | 1,000 | 2,000 | 10.0 | KB | 1989 | | |
| 8 | 22 | 1 | 400 | | 400 | 6.0 | KB | 1966 | 26 | |
| 9 | 72 | 1 | 400 | | 400 | 6.0 | PMT (e) | 1976 | | |
| 10 | 107 | 1 | 400 | | 400 | 6.0 | PMT | 1960 | 37 | |
| 11 | 108 (d) | 1 | 630 | | 630 | 6.0 | KP | 1988 | | |
| 12 | 109 | 2 | 400 | 400 | 800 | 6.0 | KO | 1997 | | |
| 13 | 330 | 2 | 400 | 630 | 1,030 | 6.0 | KO | 1991 | | |
| 14 | 462 | 1 | 400 | | 400 | 6.0 | PMT | 1964 | | |
| 15 | 519 | 2 | 630 | 630 | 1,260 | 6.0 | KO | 1966 | 25 | |
| 16 | 1042 | 1 | 160 | | 160 | 6.0 | PMT | 1999 | | |
| 17 | 1063 | 1 | 630 | | 630 | 6.0 | PMT | 2000 | | |
| Total | | 25 | | | 12,880 | | | | | |

Remarks :

(a) Figure in column of "Priority" is a number (priority) indicated in Appendix II.3.3-2(1) for the Master Plan.

(b) No. 4 station building will be newly constructed.

(c) Old No. 7 station building will be abandoned and existing new building will be used.

(d) Number of transformer will be increased to 2 units due to modification of inside wall.

(e) MV switchgear(LBSs) and LVDB of PMT type transformer stations is not counted here, because those are mounted in transformer cubicle.

(f) Molded dry type transformers for No.6 & No.22 transformer stations will be enclosed in the cubicle with proper ventilation system.

| Equipment to be installed in the Plan | | | | | | | | | | | | | | |
|---------------------------------------|------------|------------|--------------------------------|-----------|------------|-----------|-----------|-----------|-----------|----------------|----------------|--|--|--|
| Transformers | | | Number of MV Switchgear Panels | | | | | LV Panels | | Type of Trans. | | | | |
| Unit (nos) | No.1 (kVA) | No.2 (kVA) | Total (kVA) | CB Feeder | LBS Feeder | Bus Tie | PT | Tr. | with 2-CB | with 1-CB | Type of Trans. | | | |
| 2 | 400 | 400 | 800 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | Dry | | | |
| 2 | 630 | 630 | 1,260 | 4 | 2 | 1 | 2 | 2 | 1 | 1 | Dry | | | |
| 1 | 630 | | 630 | 1 | 3 | 1 | 1 | 1 | | | Dry | | | |
| 2 | 630 | 630 | 1,260 | 6 | 2 | 1 | 2 | 2 | 1 | 1 | Dry | | | |
| 2 | 630 | 630 | 1,260 | 3 | 2 | 1 | 2 | 2 | 1 | 1 | Dry | | | |
| 2 | 630 | 630 | 1,260 | 2 | 4 | 1 | 2 | 2 | 1 | 1 | Dry | | | |
| 2 | 1,000 | 1,000 | 2,000 | 6 | 3 | 1 | 2 | 2 | 1 | 1 | Dry | | | |
| 1 | 400 | | 400 | | 2 | | | 1 | | | Dry | | | |
| 1 | 400 | | 400 | | | | | | | | Dry | | | |
| 1 | 400 | | 400 | | | | | | | | Dry | | | |
| 2 | 630 | 630 | 1,260 | | 2 | | | 2 | 1 | 1 | Dry | | | |
| 2 | 400 | 400 | 800 | 4 | 1 | 1 | 2 | 2 | 1 | 1 | Oil | | | |
| 2 | 630 | 630 | 1,260 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | Oil | | | |
| 1 | 630 | | 630 | | | | | | | | Dry | | | |
| 2 | 630 | 630 | 1,260 | 5 | 2 | 1 | 2 | 2 | 1 | 1 | Oil | | | |
| 1 | 400 | | 400 | | | | | | | | Dry | | | |
| 1 | 630 | | 630 | | | | | | | | Dry | | | |
| 27 | | | 15,910 | 33 | 29 | 10 | 17 | 22 | 10 | 12 | | | | |

Appendix 3.5-2 Underground cables lines related to voltage augmentation (phase I)

| Existing MV Distribution Lines related to Upgrading | | | | | | | | | | |
|---|--------------|------------|---------------|------------------------|------------|----------------------|----------------------|---------------|--------------|----------------------------|
| No. | From | | Circuit (CCT) | Rated Voltage of Cable | Cable Size | Route Length (m) (b) | Cable Length (cct.m) | Commiss. Year | Priority (a) | Rehabilitation |
| | S/S No. | To S/S No. | | | | | | | | |
| 1 | 1 | 4 | 1 | 6 kV | 3 x 95 | 1,380 | 1,380 | 1973 | | Reconnected to other T.S |
| 2 | 4 | 7 | 1 | 6 kV | 3 x 95 | 483 | 483 | 1957 | 50 | Replaced with 10 kV cables |
| 3 | 4 | 107 | 1 | 6 kV | 3 x 95 | 220 | 220 | 1957 | 51 | Replaced with 10 kV cables |
| 4 | 4 | 108 | 1 | 6 kV | 3 x 70 | 1,269 | 1,269 | 1960 | 73 | Replaced with 10 kV cables |
| 5 | 5 | 7 | 1 | 6 kV | 3 x 70 | 427 | 427 | 1933 | 26 | Replaced with 10 kV cables |
| 6 | 5 | 129 | 1 | 6 kV | 3 x 70 | 614 | 614 | 1933 | 27 | Abandonment |
| 7 | 5 | 200 | 1 | 6 kV | 3 x 70 | 367 | 367 | 1940 | 34 | Abandonment |
| 8 | 5 | 201 | 1 | 6 kV | 3 x 70 | 230 | 230 | 1940 | 35 | Abandonment |
| 9 | 5 | 11 | 1 | 6 kV | 3 x 120 | 550 | 550 | 1959 | 60 | Abandonment |
| 10 | 6 | 7 | 1 | 6 kV | 3 x 70 | 272 | 272 | 1933 | 28 | Replaced with 10 kV cables |
| 11 | 6 | 462 | 1 | 6 kV | 3 x 70 | 65 | 65 | 1954 | 47 | Replaced with 10 kV cables |
| 12 | 7 | 330 | 1 | 6 kV | 3 x 70 | 250 | 250 | 1933 | 29 | Replaced with 10 kV cables |
| 13 | 11 | 462 | 1 | 6 kV | 3 x 95 | 558 | 558 | 1954 | 48 | Replaced with 10 kV cables |
| 14 | 11 | 573 | 1 | 6 kV | 3 x 95 | 329 | 329 | 1954 | 49 | Abandonment |
| 15 | 11 | 72 | 1 | 6 kV | 3 x 185 | 70 | 70 | 1984 | | Replaced with 10 kV cables |
| 16 | 22 | 330 | 1 | 6 kV | 3 x 70 | 387 | 387 | 1933 | 30 | Replaced with 10 kV cables |
| 17 | 22 | 23 | 1 | 6 kV | 3 x 150 | 282 | 282 | 1933 | 31 | Abandonment (partially) |
| 18 | 23 | 519 | 1 | 6 kV | 3 x 95 | 200 | 200 | 1932 | 25 | Abandonment |
| 19 | 107 | 109 | 1 | 6 kV | 3 x 95 | 300 | 300 | 1959 | 63 | Replaced with 10 kV cables |
| 20 | 108 | 109 | 1 | 6 kV | 3 x 95 | 245 | 245 | 1958 | 57 | Replaced with 10 kV cables |
| 21 | 108 | 519 | 1 | 6 kV | 3 x 185 | 110 | 110 | 1964 | | Replaced with 10 kV cables |
| 22 | 109 | 1063 | 1 | 10 kV | 3 x 150 | 300 | 300 | 2000 | | Remained unchange |
| 23 | 162 | 519 | 1 | 10 kV | 3 x 150 | 780 | 780 | 1973 | 81 | Abandonment |
| 24 | 519 | 1042 | 1 | 10 kV | 3 x 95 | 160 | 160 | 2000 | | Remained unchange |
| | Total | | | | | 9,848 | 9,848 | | 24 | |

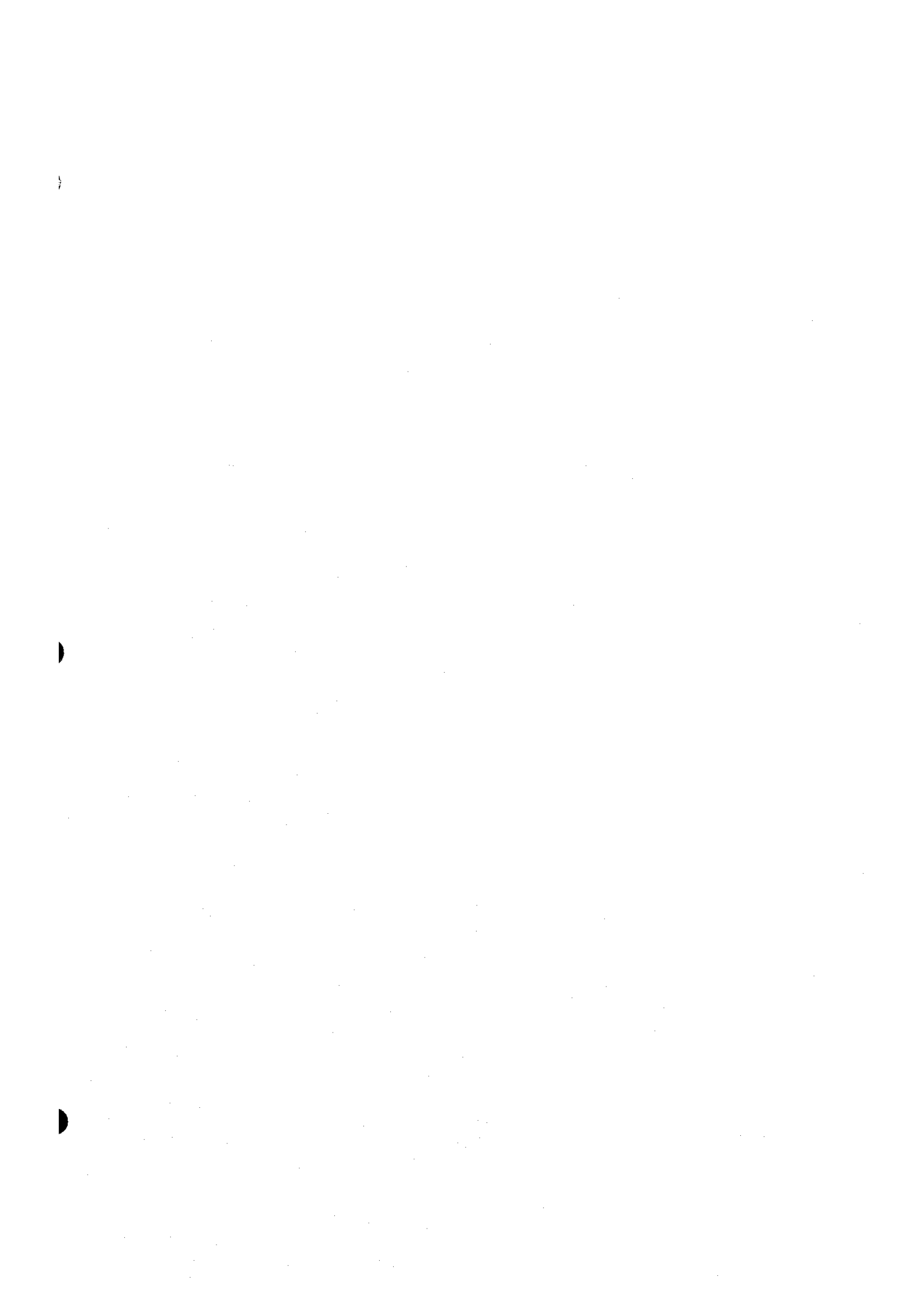
Remarks :

- (a) Figure in colour of "Priority" is a number (priority) indicated in Appendix II.3-3-1(1) for the Master Plan.
- (b) Route length of line to be rehabilitated indicated in the above table is measured on the map of scale 1/5000 with allowance.
- (c) Existing power cable for "No.109 - No.1063" and "No.519 - No.1042" will be used.

| Distribution Lines to be rehabilitated in the Plan | | | | | | | | | |
|--|-----------------|------------|---------------|------------------------|------------------|---------------------|----------------------|--|--|
| No. | From | | Circuit (CCT) | Rated Voltage of Cable | Route Length (m) | Length for Erection | Cable Length (cct.m) | | |
| | S/S No. | To S/S No. | | | | | | | |
| 1 | 4 | 17 | 2 | 10 kV | 278 | 278 | 556 | | |
| 2 | 4 | 107 | 1 | 10 kV | 235 | 235 | 235 | | |
| 3 | 4 | 109 | 1 | 10 kV | 556 | | 556 | | |
| 4 | 5 | 7 | 2 | 10 kV | 342 | 342 | 684 | | |
| 5 | 5 | 17 | 2 | 10 kV | 605 | 605 | 1,210 | | |
| 6 | 5 | 600 | 2 | 10 kV | 610 | 610 | 1,220 | | |
| 7 | 6 | 7 | 2 | 10 kV | 396 | 396 | 792 | | |
| 8 | 6 | 11 | 1 | 10 kV | 396 | | 396 | | |
| 9 | 6 | 462 | 1 | 10 kV | 70 | 70 | 70 | | |
| 10 | 7 | 11 | 2 | 10 kV | 487 | 487 | 974 | | |
| 11 | 7 | 330 | 2 | 10 kV | 150 | 150 | 300 | | |
| 12 | 11 | 72 | 1 | 10 kV | 75 | 75 | 75 | | |
| 13 | 11 | 462 | 1 | 10 kV | 326 | 326 | 326 | | |
| 14 | 21 | 519 | 2 | 10 kV | 599 | 599 | 1,198 | | |
| 15 | 22 | 330 | 1 | 10 kV | 414 | 414 | 414 | | |
| 16 | 22 | 519 | 1 | 10 kV | 433 | 433 | 433 | | |
| 17 | 107 | 109 | 1 | 10 kV | 321 | 321 | 321 | | |
| 18 | 108 | 109 | 1 | 10 kV | 262 | 262 | 262 | | |
| 19 | 108 | 519 | 1 | 10 kV | 118 | 118 | 118 | | |
| 20 | 109 | 519 | 1 | 10 kV | 380 | | 380 | | |
| 21 | 330 | 519 | 1 | 10 kV | 847 | | 847 | | |
| | Subtotal | | 27 | | 6,673 | 5,721 | 10,140 | | |
| 22 | 109 | 1063 | 1 | 10 kV | 139 | 0 (c) | 139 | | |
| 23 | 519 | 1042 | 1 | 10 kV | 139 | 0 (c) | 139 | | |
| | Subtotal | | 2 | | 278 | | 278 | | |
| | Total | | 29 | | 6,951 | 5,721 | 10,418 | | |

Appendix 3.7-1 Major Facilities to be procured

| Items | Unit | Phase I | Phase II | Total |
|---|------|---------|----------|-------|
| A. Transformer Stations | | | | |
| A.1 MV Cubicles | | | | |
| a.1.1 Outgoing feeder (SF6 CB 630 A) | set | 33 | 54 | 87 |
| a.1.2 Incoming feeder (SF6 LBS 630 A) | set | 37 | 42 | 79 |
| a.1.3 Bus coupler (SF6 LBS 2000 A) | set | 9 | 16 | 25 |
| a.1.4 PT cubicles | set | 17 | 30 | 47 |
| a.1.5 Transformer circuit cubicle | | | | |
| (a) SF6 LBS 200A w/fuse for 400kVA trans. | set | 5 | 5 | 10 |
| (b) SF6 LBS 200 A w/fuse for 630kVA trans. | set | 15 | 21 | 36 |
| (c) SF6 LBS 200 A w/fuse for 1,000kVA trans. | set | 2 | 2 | 4 |
| A.2 Distribution Transformers (10/0.4-0.23 kV) | | | | |
| a.2.1 Oil filled type | | | | |
| (a) 400 kVA | set | 4 | 1 | 5 |
| (b) 630 kVA | set | 12 | 14 | 26 |
| (c) 1,000 kVA | set | - | 2 | 2 |
| a.2.2 Molded dry type | | | | |
| (a) 400 kVA | set | 1 | 3 | 4 |
| (b) 630 kVA | set | 3 | 4 | 7 |
| (c) 1,000 kVA | set | 2 | - | 2 |
| A.3 Low Voltage Distribution Board (LVDB) | | | | |
| a.3.1 1,800 A capacity with 4 feeders of 400 A and 4 feeders of 250 A | set | 12 | 15 | 27 |
| a.3.2 1,600 A capacity with 4 feeders of 400 A and 4 feeders of 250 A, with bus-tie circuit breaker | set | 11 | 10 | 21 |
| A.4 Package Type Transformer Station | | | | |
| (a) Transformer station with 400 kVA transformer | set | 3 | 1 | 4 |
| (b) Transformer station with 630 kVA transformer | set | 2 | 1 | 3 |
| B. Power Cable | | | | |
| B.1 MV XLPE Underground Cable | | | | |
| (a) 3x240 sq.mm | km | 10.6 | 18.2 | 29 |
| (b) 3x150 sq.mm | km | - | - | 0 |
| B.2 LV Cables | | | | |
| b.2.1 LV XLPE underground cables | | | | |
| (a) 3x240 + 1x95 | km | 9.2 | 9.8 | 19.0 |
| (b) 3x150 +1x70 | km | 18.1 | 18.7 | 36.8 |
| b.2.2 ABC cable on wall | | | | |
| (a) 3x150+1x70 | km | 10.8 | 11.2 | 22.0 |
| (b) 3x70+1x70 | km | 7.2 | 7.5 | 14.7 |
| B.3 Wall Mounted Fuse Switch Box | | | | |
| Main fuse of 400 A with 1x400+4x250 fuse switches | set | 37 | 39 | 76 |
| C. Temporary Facilities for Erection | | | | |
| (a) SF6 LBS 630 A cubicle | set | 15 | - | 15 |
| (b) Transformer, 630 kVA | set | 4 | - | 4 |



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