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| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **ELECTRICAL POWER & CONTROL DRUM SCHEDULE &****CUTTING LIST****نگهداشت و افزایش تولید میدان نفتی بینک** |
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|  |  |  |  |  |  |  |
| D01 | Apr. 2025 | IFA | E.Zamani | M.Fakharian | S.Faramarzpour |  |
| D00 | Dec. 2023 | IFC | H.Shakiba | M.Fakharian | S.Faramarzpour |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **Client Approval** |
| **Class:1** | **Client Doc. Number: F8Z-709068** |
| **Status:** | **IDC: Inter-Discipline Check****IFC: Issued For Comment** **IFA: Issued For Approval****AFD: Approved For Design** **AFC: Approved For Construction** **AFP: Approved For Purchase****AFQ: Approved For Quotation** **IFI: Issued For Information****AB-R: As-Built for CLIENT Review** **AB-A: As-Built –Approved** |

**REVISION RECORD SHEET**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |  | **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |
| **1** | X | X |  |  |  | **51** |  |  |  |  |  |
| **2** | X | X |  |  |  | **52** |  |  |  |  |  |
| **3** | X | X |  |  |  | **53** |  |  |  |  |  |
| **4** | X | X |  |  |  | **54** |  |  |  |  |  |
| **5** | X | X |  |  |  | **55** |  |  |  |  |  |
| **6** | X | X |  |  |  | **56** |  |  |  |  |  |
| **7** | X | X |  |  |  | **57** |  |  |  |  |  |
| **8** | X | X |  |  |  | **58** |  |  |  |  |  |
| **9** | X | X |  |  |  | **59** |  |  |  |  |  |
| **10** | X | X |  |  |  | **60** |  |  |  |  |  |
| **11** | X | X |  |  |  | **61** |  |  |  |  |  |
| **12** | X | X |  |  |  | **62** |  |  |  |  |  |
| **13** | X | X |  |  |  | **63** |  |  |  |  |  |
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**Electrical Cable Type**

A: Cu/XLPE/Bd/Lsh/Bd/SWA/PVC - N2XKYRY (LV Multi-Core with Lead Sheath)

B: Cu/XLPE/Bd/SWA/PVC - N2XRY (LV Multi-Core)

C: Cu/XLPE/Bd/AWA/PVC - N2XRY (LV Single-Core)

D: Cu/PVC/Bd/Lsh/Bd/SWA/PVC - NYKYRY (Control Multi-Core with Lead Sheath)

E: Cu/PVC/Bd/SWA/PVC - NYRY (Control Multi-Core)

F: Cu/SC/XLPE/SC/SCT/Lsh/Bd/SWA/PVC - N2XSEYKYRY (MV Multi-Core with Lead Sheath)

G: Cu/SC/XLPE/SC/SCT/Lsh/Bd/AWA/PVC - N2XSYKYRY (MV Single-Core with Lead Sheath)

H: Cu/SC/XLPE /SC/SCT/CWS/Bd/AWA/PVC - N2XSYRY (MV Single-Core)

I: Cu/SC/XLPE/SC/SCT/ICWS/Bd/SWA/PVC - N2XSEYRY (MV Multi-Core)

J: CU/SM/XLPE/SM/SC/PVC/SWA/PVC - N2XSEYRY (HV Multi-Core)

K: CU/SM/XLPE/SM/SC/PVC/AWA/PVC - N2XSYRY (HV Single-Core)

L: Cu/PVC/PVC - NYY (LV Multi-Core for Lighting)

R: Cu/PVC/OSCR/Bd/LSH/Bd/SWA/PVC (RTD Cable)

S: CU/XLPE/PVC - N2XY (LV Single-Core Flexible)

Z: Fire Resistant or MICC Lighting Cable

**Notes:**

1. This document shall be Based on below references:

Document Title: “Specification for Power & Control Cables”

Document No.: “BK-GNRAL-PEDCO-000-EL-SP-0014”

Document Title: “Data Sheets for Power & Control Cables”

Document No.: “BK-GCS-PEDCO-120-EL-DT-0010”

Document Title: “Electrical Power & Control Cable Schedule”

Document No.: “BK-GCS-PEDCO-120-EL-LI-0002”

Document Title: “MTO for Power & Control Cables”

Document No.: “BK-GCS-PEDCO-120-EL-MT-0003”

| **Item** | **Rev** | **Drum No** | **Drum Length (m)** | **Insulation Service Voltage (KV)** | **Cable Size** | **Cable Length (m)** | **Cable Type** | **Cable No** | **Remark** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Core | Phase | N | E |
|  | D01 | LP-2C4-001 | 840 | 0.6/1 | 2C | 4 | 4 | - | 280 | A | L-MCC2101B-LH |  |
| 250 | L-MCC2101A-LH |
| 310 | L-MCC2101C-LH |
|  | D01 | LP-2C4-002 | 1640 | 0.6/1 | 2C | 4 | - | - | 410 | A | C-NSWGE-P-2202A |  |
| 410 | C-NSWGE-P-2202B |  |
| 410 | C-NSWGE-P-2101A |  |
| 410 | C-NSWGE-P-2101B |  |
| LP-2C4-003 | 1640 | 0.6/1 | 2C | 4 | - | - | 410 | A | C-NSWGE-P-P-2209 |  |
| 410 | C-NSWGE-P-2103A-04 |  |
| 410 | C-NSWGE-P-2103B-04 |  |
| 410 | C-NSWGE-P-2104-01 |  |
|  | D01 | LP-2C16-004 | 840 | 0.6/1 | 2C | 16 | 16 | - | 250 | A | L-MCC2101A-OH |  |
| 280 | L-MCC2101B-OH |
| 310 | L-MCC2101C-OH |
|  | D01 | LP-3C2.5-005 | 900 | 0.6/1 | 3C | 2.5 | 2.5 | 2.5 | 270 | A | L-11SWGA-SPH-A |  |
| 300 | L-11SWGB-SPH-B |
| 330 | L-11SWGC-SPH-C |
|  | D01 | LP-3C4-006 | 840 | 0.6/1 | 3C | 4 | - | - | 250 | A | L-MCC2101A-LP |  |
| 280 | L-MCC2101B-LP |
| 310 | L-MCC2101C-LP |
|  | D01 | LP-3C4-007 | 10 | 0.6/1 | 3C | 4 | 4 | - | 2 | A | L-WS-PR-01-SC-PR-01 |  |
| 2 | L-WS-PR-02-SC-PR-02 |
| 2 | L-WS-PR-03-SC-PR-03 |
| 2 | L-WS-PR-04-SC-PR-04 |
| 2 | L-WS-PR-05-WS-SC-05 |
|  | D01 | LP-3C6-008 | 1500 | 0.6/1 | 3C | 6 | - | - | 250 | A | L-MCC2101A-BR |  |
| 280 | L-MCC2101B-BR |
| 310 | L-MCC2101C-BR |
| 330 | L-PK2101-P100A |
| 330 | L-PK2101-P100B |
|  | D01 | LP-3C10-009 | 1060 | 0.6/1 | 3C | 10 | - | - | 250 | A | L-MCC2101A-OC |  |
| 250 | L-MCC2101A-WC |
| 280 | L-MCC2101B-OC |
| 280 | L-MCC2101B-WC |
| LP-3C10-010 | 1240 | 0.6/1 | 3C | 10 | - | - | 310 | A | L-MCC2101C-OC |
| 310 | L-MCC2101C-WC |
| 310 | L-NSWGA-AC2121A-1 |
| 310 | L-NSWGA-AC2121A-2 |
| LP-3C10-011 | 1420 | 0.6/1 | 3C | 10 | - | - | 340 | A | L-NSWGB-AC2121B-1 |
| 340 | L-NSWGB-AC2121B-2 |
| 370 | L-NSWGA-AC2121C-1 |
| 370 | L-NSWGA-AC2121C-2 |
| LP-3C10-012 | 1300 | 0.6/1 | 3C | 10 | - | - | 310 | A | L-NSWGA-AC2131A-1 |
| 310 | L-NSWGA-AC2131A-2 |
| 340 | L-NSWGB-AC2131B-1 |
| 340 | L-NSWGB-AC2131B-2 |
| LP-3C10-013 | 1540 | 0.6/1 | 3C | 10 | - | - | 370 | A | L-NSWGA-AC2131C-1 |
| 370 | L-NSWGA-AC2131C-2 |
| 400 | L-NSWGE-P2203A |
| 400 | L-NSWGE-P2203B |
| LP-3C10-014 | 1580 | 0.6/1 | 3C | 10 | - | - | 420 | A | L-NSWGE-P-2201A |
| 420 | L-NSWGE-P-2201B |
| 340 | L-NSWGB-P-2102 |
| 400 | L-NSWGB-P-2104 |
|  | D01 | LP-3C16-015 | 750 | 0.6/1 | 3C | 16 | - | - | 250 | A | L-MCC2101A-AP |  |
| 250 | L-MCC2101A-AX |
| 250 | L-MCC2101A-WP |
| LP-3C16-016 | 840 | 0.6/1 | 3C | 16 | - | - | 280 | A | L-MCC2101B-AP |
| 280 | L-MCC2101B-AX |
| 280 | L-MCC2101B-WP |
| LP-3C16-017 | 930 | 0.6/1 | 3C | 16 | - | - | 310 | A | L-MCC2101C-AP |
| 310 | L-MCC2101C-AX |
| 310 | L-MCC2101C-WP |
| LP-3C16-018 | 1160 | 0.6/1 | 3C | 16 | - | - | 210 | A | L-NSWGE-P-2101A |
| 370 | L-NSWGA-P-2103A |
| 210 | L-NSWGE-P-2101B |
| 370 | L-NSWGB-P-2103B |
|  | D01 | LP-3C25-019 | 820 | 0.6/1 | 3C | 35 | - | - | 410 | A | L-NSWGE-P-2202A |  |
| 410 | L-NSWGE-P-2202B |
|  | D01 | LP-4C25-020 | 580 | 0.6/1 | 4C | 25 | 25 | - | 320 | A | L-NSWGB-PK2101 |  |
| 260 | L-NSWGB-CR-01 |
|  | D01 | LP-4C16-021 | 925 | 0.6/1 | 4C | 16 | 16 | - | 250 | A | L-NSWGB-PK2207 |  |
| 425 | L-NSWGA-CP01 |
| 250 | L-NSWGE-EDP-01 |  |
|  | D01 | LP-4C50-022 | 745 | 0.6/1 | 4C | 50 | 25 | - | 250 | A | L-NSWGB-WS-PR-01 |  |
| 75 | L-WS-PR-01-WS-PR-02 |
| 310 | L-NSWGA-WS-PR-03 |
| 50 | L-WS-PR-03-WS-PR-04 |
| 60 | L-WS-PR-04-WS-PR-05 |
|  | D01 | LP-4C70-023 | 530 | 0.6/1 | 4C | 70 | 35 | - | 250 | A | L-MCC2101A-WH |  |
| 280 | L-MCC2101B-WH |
| LP-4C70-024 | 560 | 0.6/1 | 4C | 70 | 35 | - | 310 | L-MCC2101C-WH |
| 250 | L-NSWGB-NDP-01 |
|  | D01 | LP-4C120-025 | 625 | 0.6/1 | 4C | 120 | 70 | - | 270 | A | L-NSWGE-PKC2203A1 |  |
| 270 | L-NSWGE-PKC2203A2 |
| LP-4C120-026 | 625 | 0.6/1 | 4C | 120 | 70 | - | 270 | A | L-NSWGE-PKC2203B1 |  |
| 270 | L-NSWGE-PKC2203B2 |
| LP-4C120-027 | 560 | 0.6/1 | 4C | 120 | 70 | - | 280 | A | L-NSWGA-PK2204-1 |  |
| 280 | L-NSWGA-PK2204-2 |
|  | D01 | LP-1C50-028 | 160 | 0.6/1 | 1C | 50 | - | - | 160 | B | ACC to Schedule |  |
|  | D01 | LP-1C150-029 | 120 | 0.6/1 | 1C | 150 | - | - | 120 | B | ACC to Schedule |  |
|  | D01 | LP-1C150-030 | 140 | 0.6/1 | 1C | 185 | - | - | 140 | B | ACC to Schedule |  |
|  | D01 | LP-1C120-031 | 150 | 0.6/1 | 1C | - | 120 | - | 75 | B | L-NSWGE-HVAC-CRM4 |  |
| 75 | L-NSWGB-EDP-CRM8 |
|  | D01 | LP-2C4-032 | 215 | 0.6/1 | 2C | 4 | - | - | 215 | B | C-NSWGE-P-2302A |  |
|  | D01 | LP-2C6-033 | 175 | 0.6/1 | 2C | 6 | - | - | 175 | B | ACC to Schedule |  |
|  | D01 | LP-2C50-034 | 120 | 0.6/1 | 2C | 50 | - | - | 120 | B | ACC to Schedule |  |
|  | D01 | LP-2C95-035 | 120 | 0.6/1 | 2C | 95 | - | - | 120 | B | ACC to Schedule |  |
|  | D01 | LP-2C120-036 | 160 | 0.6/1 | 2C | 120 | - | - | 80 | B | L-24CH-F13 |  |
| 80 | L-24CH-F14 |
|  | D01 | LP-3C2.5-037 | 174 | 0.6/1 | 3C | 2.5 | 2.5 | 2.5 | 174 | B | ACC to Schedule |  |
|  | D01 | LP-3C4-038 | 305 | 0.6/1 | 3C | 4 | - | - | 90 | B | L-NSWGB-P-2209 |  |
| 215 | L-NSWGB-P-2206 |
|  | D01 | LP-3C4-039 | 1474 | 0.6/1 | 3C | 4 | 4 | 4 | 1474 | B | ACC to Schedule |  |
|  | D01 | LP-3C10-040 | 210 | 0.6/1 | 3C | 10 | 10 | 10 | 210 | B | ACC to Schedule |  |
|  | D01 | LP-3C50-041 |  | 0.6/1 | 3C | 50 | 25 | 25 | 300 | B | L-110UPS-F31 |  |
| 300 | L-110UPS-F32 |
|  | D01 | LP-3C25-042 | 430 | 0.6/1 | 3C | 35 | - | - | 215 | B | L-NSWGE-P-2302A |  |
| 215 | L-NSWGE-P-2302B |
|  | D01 | LP-3C50-043 | 75 | 0.6/1 | 3C | 50 | 25 | - | 75 | B | L-NSWGE-EDP-SWHVAC |  |
|  | D01 | LP-3C185-044 | 120 | 0.6/1 | 3C | 185 | - | - | 35 | B | L-NSWGA-CAP-A-01 |  |
| 35 | L-NSWGA-CAP-A-02 |
| 25 | L-NSWGA-CAP-B-01 |
| 25 | L-NSWGA-CAP-B-02 |
|  | D01 | LP-4C4-045 | 450 | 0.6/1 | 4C | 4 | 4 | - | 210 | B | L-NSWGE-FDP 01 |  |
| 210 | L-NSWGE-FDP 02 |
| 30 | L-NSWGE-SPH-02 |
|  | D01 | LP-4C10-046 | 300 | 0.6/1 | 4C | 10 | 10 | - | 200 | B | L-NSWGA-CR-02 |  |
| 100 | L-NSWGE-EDP-WARE |
|  | D01 | LP-4C16-047 | 460 | 0.6/1 | 4C | 16 | 16 | - | 220 | B | L-NSWGE-EDP-02 |  |
| 25 | L-NSWGA-110-CHG001 |
| 30 | L-NSWGE-110-CHG002 |
| 50 | L-NSWGA-24-CHG001 |
| 60 | L-NSWGE-24-CHG002 |
| 75 | L-NSWGE-EDP-CRM |
|  | D01 | LP-4C25-048 | 260 | 0.6/1 | 4C | 25 | 25 | - | 60 | B | L-NSWGE-Non UPS |  |
| 200 | L-NSWGE-CCTV |
|  | D01 | LP-4C35-049 | 220 | 0.6/1 | 4C | 35 | 35 | - | 220 | B | L-NSWGA-NDP-02 |  |
|  | D01 | LP-4C50-050 | 500 | 0.6/1 | 4C | 50 | 25 | - | 225 | B | L-NSWGB-WS-UT-01 |  |
| 275 | L-NSWGA-WS-UT-02 |
|  | D01 | LP-4C70-051 | 155 | 0.6/1 | 4C | 70 | 35 | - | 45 | B | L-NSWGB-110-UPS001 |  |
| 55 | L-NSWGA-110-UPS002 |
| 55 | L-NSWGE-UPS-Bypass |
|  | D01 | LP-5C10-052 | HOLD | 0.6/1 | 5C | 10 | 10 | 10 | HOLD | B | L-NSWGE-IG-2201 |  |
|  | D01 | LP-5C25-053 | 600 | 0.6/1 | 5C | 25 | 25 | 25 | 300 | B | C-MCC2101B-EHT |  |
| 300 | C-MCC2101C-EHT |
|  | D01 | LP-5C35-054 | 75 | 0.6/1 | 5C | 35 | 16 | 16 | 25 | B | L-NSWGA-MCC2101A |  |
| 25 | L-NSWGB-MCC2101B |
| 25 | L-NSWGC-MCC2101B |
|  | D01 | LP-1C300-055 | 702 | 0.6/1 | 1C | 300 | - | - | 702 | C | ACC to Schedule |  |
| LP-1C300-056 | 450 | 0.6/1 | 1C | 240 | - | - | 450 | C | ACC to Schedule |  |
| LP-1C300-057 | 423 | 0.6/1 | 1C | - | 300 | - | 110 | C | ACC to Schedule |  |
|  | D01 | LP-2C04-058 | 1500 | 0.6/1 | 2C | 4 | - | - | 1500 | D | ACC to Schedule |  |
| LP-2C04-059 | 1500 | 0.6/1 | 2C | 4 | - | - | 1500 | D | ACC to Schedule |  |
| LP-2C04-060 | 1500 | 0.6/1 | 2C | 4 | - | - | 1500 | D | ACC to Schedule |  |
| LP-2C04-061 | 1500 | 0.6/1 | 2C | 4 | - | - | 1500 | D | ACC to Schedule |  |
| LP-2C04-062 | 1500 | 0.6/1 | 2C | 4 | - | - | 1500 | D | ACC to Schedule |  |
| LP-2C04-063 | 1600 | 0.6/1 | 2C | 4 | - | - | 1600 | D | ACC to Schedule |  |
|  | D01 | LP-5C04-064 | 900 | 0.6/1 | 5C | 5 | 5 | 5 | 900 | D | C-11SWGA-C2101-A |  |
| C-11SWGA-C2101-B |
| C-11SWGA-C2101-C |
|  | D01 | LP-5C25-065 | 300 | 0.6/1 | 5C | 25 | 25 | 25 | 300 | D | C-MCC2101A-EHT |  |
|  | D01 | LP-6C06-066 | 900 | 0.6/1 | 6C | 6 | - | - | 900 | D | C-11SWGA-DF2101-A |  |
| C-11SWGB-DF2101-B |
| C-11SWGC-2101-C |
|  | D01 | LP-7C2.5-067 | 1500 | 0.6/1 | 7C | 2.5 | - | - | 1500 | D | ACC to Schedule |  |
|  | 1500 | 0.6/1 | 7C | 2.5 | - | - | 1500 |  |
|  | 1500 | 0.6/1 | 7C | 2.5 | - | - | 1500 |  |
|  | 1500 | 0.6/1 | 7C | 2.5 | - | - | 1500 |  |
|  | 1500 | 0.6/1 | 7C | 2.5 | - | - | 1500 |  |
|  | 940 | 0.6/1 | 7C | 2.5 | - | - | 940 |  |
|  | D01 | LP-10C2.5-068 | 660 | 0.6/1 | 10C | 2.5 | - | - | 330 | D | C-PK2101-P100A3 |  |
| 330 | C-PK2101-P100B3 |
|  | D01 | LP-3C2.5-069 | 80 | 0.6/1 | 3C | 2.5 | - | - | 80 | E | ACC to Schedule |  |
|  | D01 | LP-3C2.5-070 | 540 | 0.6/1 | 3C | 2.5 | 2.5 | 2.5 | 540 | E | ACC to Schedule |  |
|  | D01 | LP-3C04-071 | 180 | 0.6/1 | 3C | 4 | - | - | 180 | E | ACC to Schedule |  |
|  | D01 | LP-3C06-072 | 180 | 0.6/1 | 3C | 6 | - | - | 180 | E | ACC to Schedule |  |
|  | D01 | LP-5C2.5-073 | 50 | 0.6/1 | 5C | 2.5 | 2.5 | 2.5 | 50 | E | ACC to Schedule |  |
|  | D01 | LP-7C2.5-074 | 90 | 0.6/1 | 7C | 2.5 | - | - | 90 | E | C-NSWGB-P-2209-03 |  |
|  | D01 | LP-9C2.5-075 | 90 | 0.6/1 | 9C | 2.5 | - | - | 90 | E | ACC to Schedule |  |
|  | D01 | LP-12C2.5-076 | 1040 | 0.6/1 | 12C | 2.5 | - | - | 1040 | E | ACC to Schedule |  |
|  | D01 | LP-14C2.5-077 | 275 | 0.6/1 | 14C | 2.5 | - | - | 275 | E | ACC to Schedule |  |
|  | D01 | LP-16C2.5-078 | 300 | 0.6/1 | 16C | 2.5 | - | - | 250 | E | C-3.3SWG-LCS |  |
| 25 | C-PK2101-P100A1 |
| 25 | C-PK2101-P100B1 |
|  | D01 | HP-3C95-079 | 630 | 10/12 | 3C | 95 | - | - | 270 | F | H-11SWGA-C2101-A |  |
| 300 | H-11SWGB-C2101-B |
| HP-3C95-080 | 330 | 10/12 | 3C | 95 | - | - | 330 | F | H-11SWGC-C2101-C |  |
|  | D01 | HP-3C95-081 | 405 | 10/12 | 3C | 95 | - | - | 70 | I | H-11SWGA-TR001 |  |
| 70 | H-11SWGB-TR002 |
| 70 | H-11SWGB-TR003 |
| 30 | H-11SWGA-CAP-A |
| 30 | H-11SWGB-CAP-B |
| 30 | H-11SWGA-CAP-C |
| 35 | H-11SWGA-CAP-1 |
| 35 | H-11SWGB-CAP-2 |
| 35 | H-11SWGB-CAP-3 |
|  | D01 | MP-1C95-082 | 10 | 3/3.6 | 1C | 95 | - | - | 10 | H | M-TR003-NGR |  |
|  | D01 | MP-3C95-0831 | 60 | 3/3.6 | 3C | 120 | - | - | 60 | I | M-3.3SWG-TR003 |  |
|  | D01 | MP-3C95-083 | 250 | 3/3.6 | 3C | 95 | - | - | 250 | I | M-3.3SWG-P2301A |  |
|  | D01 | LP-5C2.5-084 | 50 | 0.6/1 | 5C | 2.5 | 2.5 | 2.5 | 25 | L | C-TR01-NSWG-PR1 |  |
| 25 | C-TR01-NSWG-PR2 |
|  | D01 | LP-6C2.5-085 | 80 | 0.6/1 | 6C | 2.5 | - | - | 40 | L | C-11SWGA-NSWG-IT1 |  |
| 40 | C-11SWGA-NSWG-IT2 |
|  | D01 | LP-12C2.5-086 | 80 | 0.6/1 | 12C | 2.5 | - | - | 40 | L | C-TR01-NSWG-PR3 |  |
| 40 | C-TR01-NSWG-PR4 |
|  | D01 | LP-12\*3C1.5-087 | 630 | 0.6/1 | 36C | 1.5 | - | - | 300 | R | C-11SWGA-RTD2101-A1 |  |
| 330 | C-11SWGB-RTD2101-B1 |
|  | LP-12\*3C1.5-088 | 360 | 0.6/1 | 36C | 1.5 | - | - | 360 | R | C-11SWGC-RTD2101-C1 |  |
|  | D01 | LP-4C120-089 | HOLD | 0.6/1 | 4C | 120 | 70 | - | HOLD | Z | L-NSWGA-PK2201 |  |

**NOTE:10 % SAPRE will be added to length of all cables (as per cables MTO) , So 10 % free space shall be foreseen for capacity of all drums.**