

SKYCOURTS, DUBAILAND RESIDENTIAL COMPLEX

PLOT RC-A-30

METHOD STATEMENT FOR

CABLE PULLING AND TERMINATION OF
POWER CABLES

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METHOD STATEMENT FOR

CABLE PULLING AND TERMINATION OF POWER CABLES

1. Purpose

This methodology covers the procedure for cable pulling/laying and termination of the power cables in accordance with the applicable standards, local authority regulations, part B specifications for electrical works and contract documents.

2. Scope

The method statement is applicable to the cable pulling/laying and termination of power cables to various mechanical equipments, Incomer/Outgoing to distribution network.

3. Delivery and Storage

1. Receive material from the supplier, and QA/QC Engineer will check against the ordered, type, quantity and ensure that the received materials are as per the specifications and as per approved material submittal no: SK/CN/06/007/STS-00900/004 for power cables (Armoured and fire proof cables).
2. Store the materials in the designated storage area as per the manufacturer's recommendations.
3. The storage area must be free from dust and the materials should be stacked in proper manner to avoid any damages.
4. Take proper care while moving and handling the above materials.
5. Mark or label damaged or incorrect materials and remove the same materials from site immediately.
6. Obtain approval from the consultant on every batch of material delivered at site

4. Inspection of Materials

1. The project QA/QC Engineer will inspect the received material and make sure that the delivered materials are as per the approved material submittal.
2. After inspection by CSCEC project QA/QC, inspection request along with check list will be sent to the consultant for further checking and approval.
3. After consultant's approval, the material will be ready for installation.

5. Installation procedure

5.1 Initial Checks

- a) Check the installed containment system is as per the approved shop drawings and method statements, so as to pull/lay the power cables.
- b) Check the approved panel board schedules and the single line diagrams for the correct cable size to be pulled.
- c) Make sure that the containment system is tidy, clear and ready for pulling the cables.
- d) Cable routing has to be checked with approved equipment / cable layout.
- e) Cables are to be checked for make and size as per approved material submittals and single line diagram/load schedules.
- f) Cable tray installation has to be approved by the consultant engineer prior to the pulling/laying of the cables.

5.2 Pulling/laying and Terminations

- a) Place the cable drum on the cable jack and put the cable roller in the cable route at required locations.
- b) Prepare the locks for the cable drum in order to avoid rotating suddenly.
- c) Prepare the cable route and distribute the required manpower.
- d) Start pulling while the people at the drum side release it at proper speed along with the speed of pulling. Leave adequate length on both ends of the cable for termination.

- e) To protect the cable ends from any damage, keep them end capped and cover with proper protection.
- f) Cables shall be properly arranged on the trays and tie the cable with cable ties along the full run on the cable tray.
- g) Holes shall be made on the panels as per the cable size and feeder location.
- h) Cables shall be glanded on both ends in LV panels/SMDB's/DB's and Tap off units and insulation test & continuity test to be conducted with a 1000V/500V megger before the termination.
- i) Proper cable lugs shall be provided & tie the cable with cable tie inside the panel board.
- j) Cable dressing inside the panel board shall be neat and clean.
- k) End connections shall be made by tightening with the proper spanner set/screw drivers where required, to the required torque level.
- l) Provide cable tagging as per cable schedule to each cable.
- m) All Cables terminated in terminal blocks shall be as per the specifications.

6. Safety

1. Safety precautions to be strictly followed during installation, testing as well as charging of any electrical equipment.
2. All appropriate safety protective gear, i.e. helmet, safety shoes, gloves, goggles, etc. should be worn by workmen.
3. Work site should be kept clean and tidy.
4. Adequate lighting and ventilation should be provided in work area.
5. The safety matrix is attached.