ANNEXURE 11

WRITEUP ON POMS

CUSTOMIZATION DONE AT TBG

CREATION OF CATALOGS FOR EQUIPMENTS

 USER FRIENDLY FORMS FOR CREATING SWITCHYARD MODELS

* AUTOMATED BOM GENERATION

* AUTOMATIC ELECTRICAL INTERFERENCE CHECKING

- * FORM BASED PLACEMENT OF EQUIPMENTS, STRUCTURES & FOUNDATIONS
 - AUTOMATED CONDUCTOR STRINGING
- FORM BASED CONNECTION OF ALL EQUIPMENTS
- FORM BASED CREATION OF ROAD LAYOUT
- FORM BASED SWITCHYARD EARTHING LAYOUT
- AUTOMATED EQUIPMENT EARTHING
- * AUTOMATED CABLE TRENCH ROUTING
- AUTOMATED CABLE LAYING

EARTHING LAYOUT

TBG Window Help

- EARTHMAT
- RISERS & FLATS

Earthmat Risers

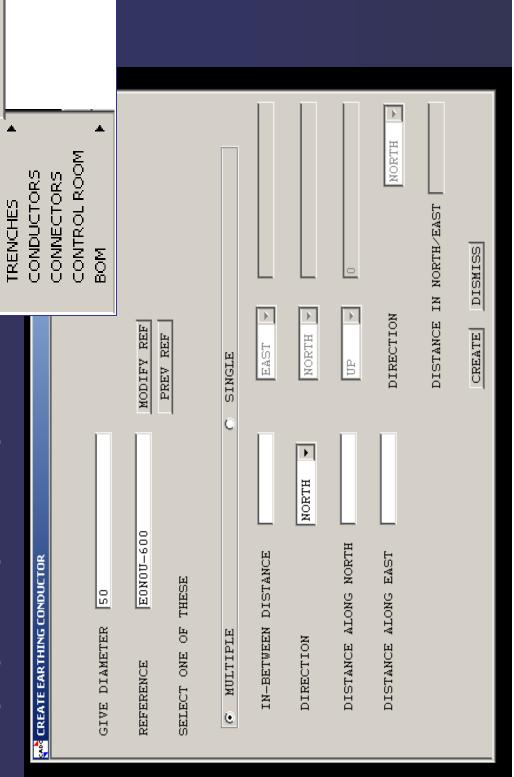
EARTHING

LAYOUT

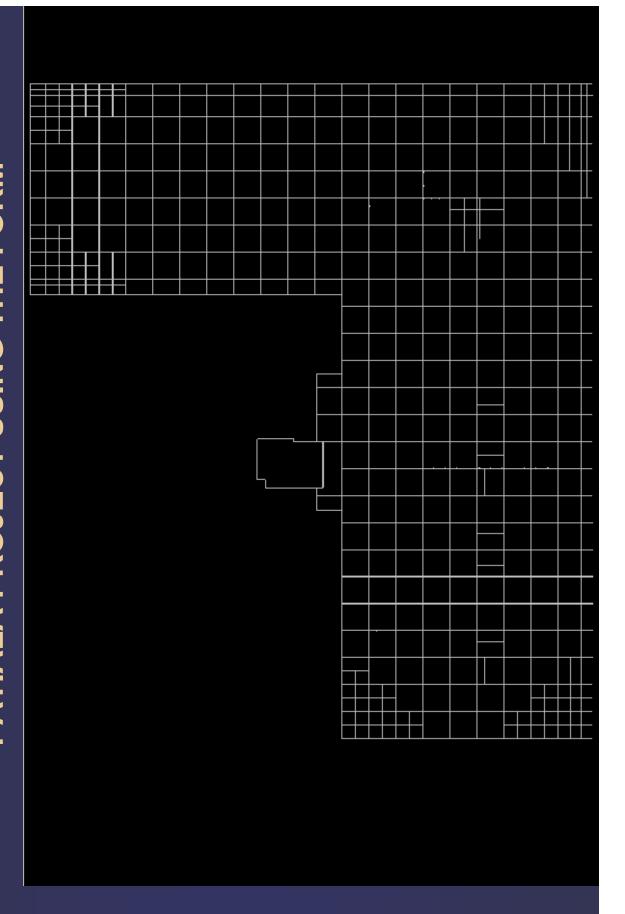
GANTRIES

ROADS

AUTOMATIC BENDS



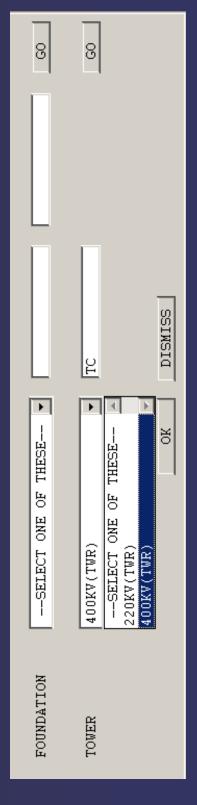
EARTHING LAYOUT PREPARED FOR PGCIL PATIALA PROJECT USING THE FORM

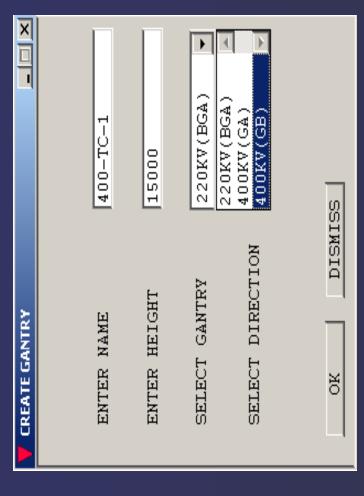


PLACEMENT OF STRUCTURES

- PLACEMENT OF TOWERS ALONG WITH THE FOUNDATIONS THROUGH FORM
- SELECT THE TYPE OF TOWER TO BE PLACED
- SELECT THE FOUNDATION FOR THE TOWER
- GIVE THE CO-ORDINATES WHERE TOWER HAS TO BE PLACED
- CONNECTING GANTRIES BETWEEN TWO TOWERS
- SELECT THE TYPE OF GANTRY TO PLACED
- PICK THE TWO TOWERS BY CLICKING ON THEM

FORMS FOR PLACEMENT OF TOWERS AND GANTRIES

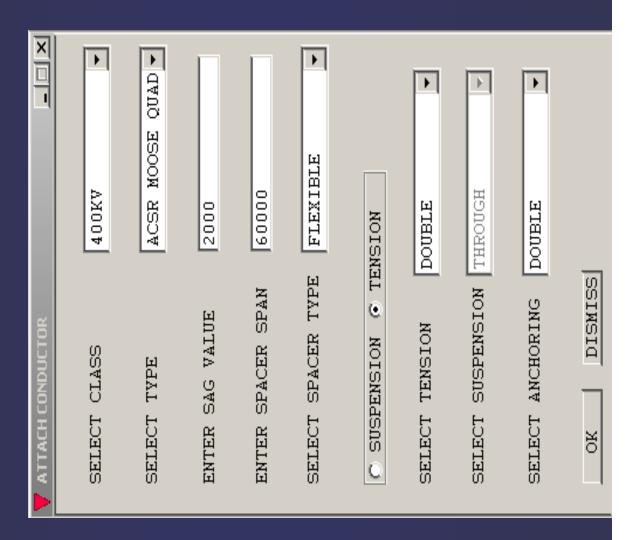




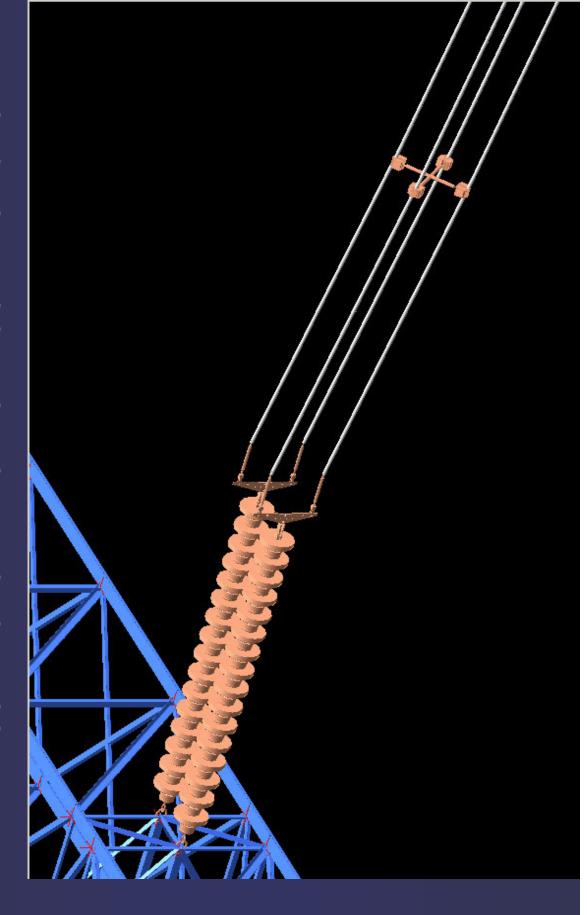
CONDUCTOR STRINGING BETWEEN GANTRIES

- * SELECT THE CLASS & TYPE OF CONDUCTORS
- * ENTER THE SAG VALUE
- **ENTER THE SPACER SPAN**
- * SELECT THE TYPE OF SPACERS
- * SELECT THE TYPE OF ANCHORING

FORM FOR CONDUCTOR STRINGING



INSULATORS AND SPACER CONNECTIONS 400 KV CONDUCTOR STRINGING WITH



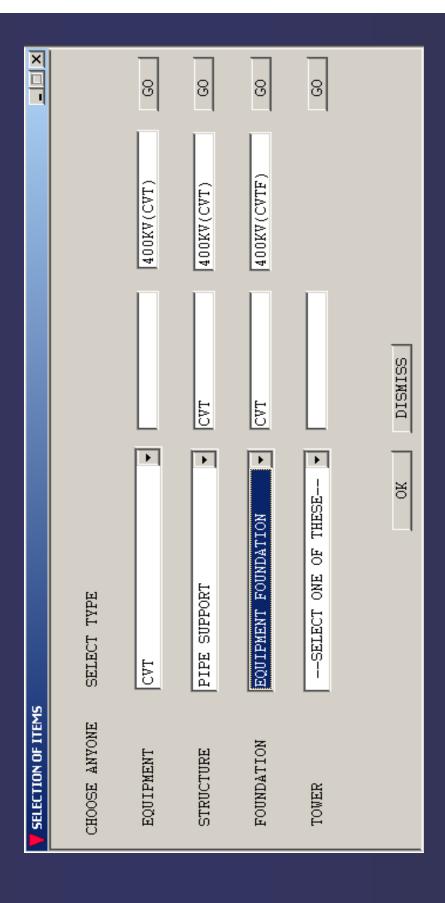
EQUIPMENT, SUPPORT STRUCTURE & FOUNDATION LAYOUT

- * SELECT THE EQUIPMENT TO BE PLACED FROM THE LIBRARY
- SELECT THE SUPPORT STRUCTURE AND FOUNDATION FOR THE EQUIPMENT
- GIVE THE CO-ORDINATES WHERE EQUIPMENT HAS TO BE PLACED

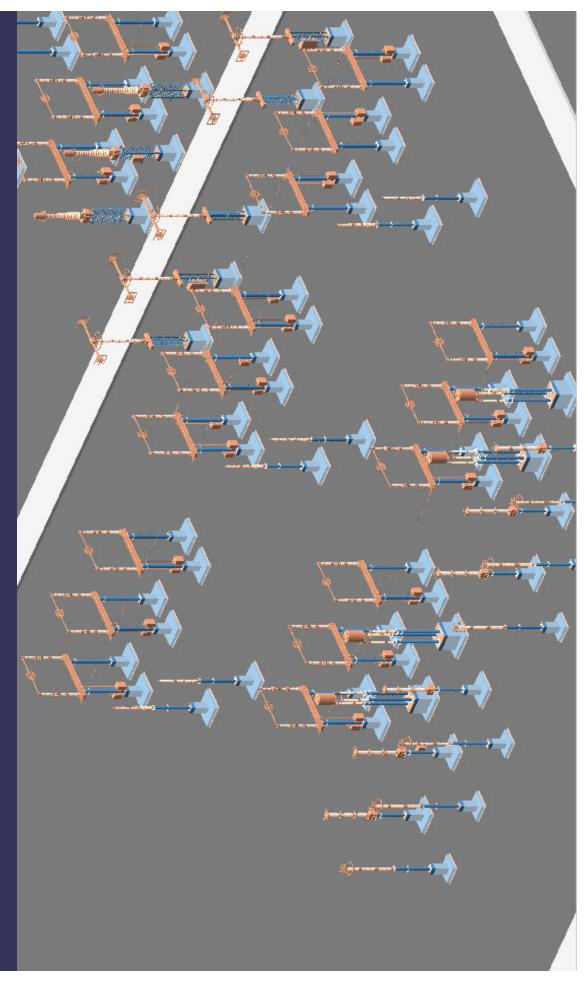
MAIN FORM FOR LAYOUT

V CREATE AND PLACE EQUIPMENTS	× -
NAME 4U1-K-P1	
REFERENCE E 53500 N 1568 MODIFY FREV CE	[+]
DISTANCE EAST ▼ 1500 NORTH ▼ 0 UP ▼ 0	
LIBRARY TO CREATE POST INSL	1)
PIPE SUPPORT POST INSL 400KV(PI)	1)
EQUIPMENT FOUNDATION POST INSL	
EQUIPMENT HEIGHT 3650	
PLINTH LEVEL 300	
TOTAL HEIGHT 8500	
CREATE DISMISS	

FORM FOR SELECTION FROM LIBRARY



FOUNDATION LAYOUT PREPARED FOR PATIALA EQUIPMENT, SUPPORT STRUCTURES & PROJECT USING THE FORMS



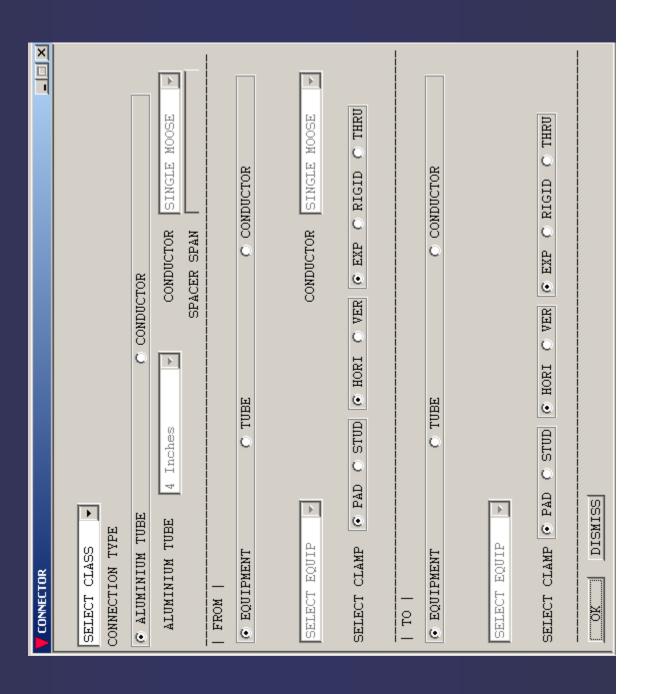
EQUIPMENT CONNECTION

SELECT THE CONNECTION TYPE

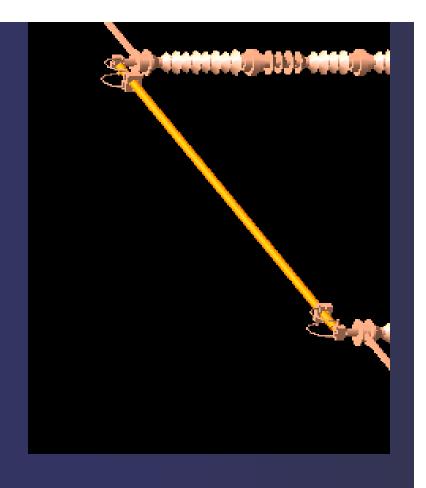
SELECT THE TWO POINTS BETWEEN WHICH THE CONNECTION HAS TO BE MADE

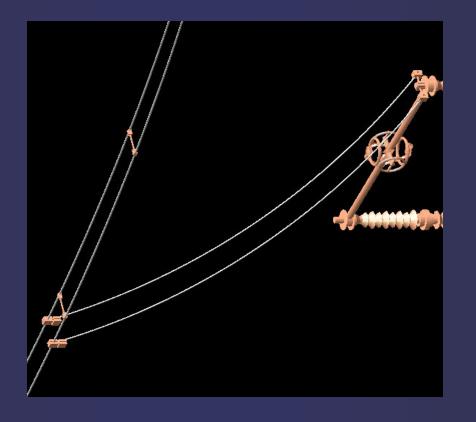
SELECT THE TYPE OF CLAMP

FORM FOR EQUIPMENT CONNECTION



CONDUCTOR AND TUBE CONNECTIONS





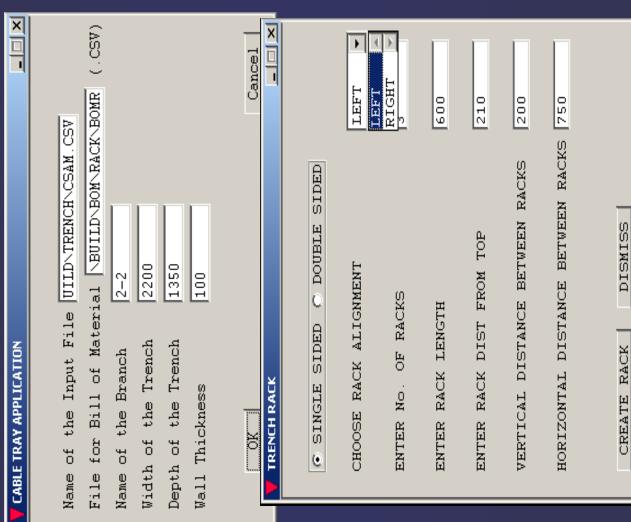
CABLE TRENCH LAYOUT

* PREPARE AN EXCEL SHEET FOR LOCATING CABLE TRENCH

INPUT THE TRENCH SIZE IN THE FORM

* SELECT THE TYPE OF RACK ASSEMBLY TO BE PLACED IN THE TRENCHES

FORMS FOR CABLE TRENCH LAYOUT



CABLE ROUTING

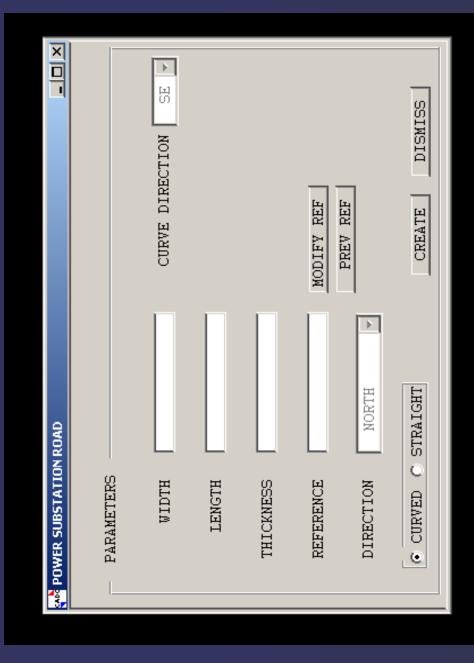
CABLE ROUTING PROGRAM TAKES CABLE SCHEDULE IN EXCEL FORMAT AS INPUT

LAYS THE CABLES BETWEEN THE EQUIPMENTS PROGRAM READS THE CABLE SCHEDULE AND LISTED IN 'FROM' AND 'TO' COLUMNS IN THE CABLE SCHEDULE

ESTIMATES CABLE LENGTHS

ROAD LAYOUT

- INPUT THE PARAMETERS IN THE FORM
- SELECT STRAIGHT OR CURVED SECTION TYPES
- INPUT THE REFERENCE POINT



BOM

BOM IS GENERATED AUTOMATICALLY FOR THE FOLLOWING:

- EARTHMAT
- EARTHING FLATS
- TOWERS AND BEAMS
- EQUIPMENTS
- CONDUCTOR
- CONDUCTOR HARDWARE ASSEMBLY
- CONNECTORS AND CLAMPS
- TRENCH RACK ASSEMBLY
- CABLES

ADDITIONAL FEATURES

- STRUCTURES AND FOUNDATIONS PARAMETRIC MODELING FOR
- * EXTENSION OF EQUIPMENT CATALOG
- CONTROL ROOM PARAMETERISATION
- GENERATION OF 2D DRAWINGS