

TECHNICAL ASSIGNMENT

for the development of KM-stage design documentation
of a steel polygonal overhead line pole

Please fill in the fields below in as much detail as possible. Unfilled items will be taken at their default values (see the italic notes), which may lead to an inaccurate calculation or the need to request the data again.

1. Customer and site data

Customer organisation	full name
Contact person	full name, position
Phone / e-mail	
Object name	e.g. "Intersection of ... / ..."
Address / settlement of installation	region, district, city
Number of poles ordered	pcs, broken down by size if different
Desired delivery time	

2. General data for the documentation

Date of completing the technical assignment	
To be written in the title blocks	
Calculate the pole for operating conditions in accordance with (state the standards)	

3. Pole type and electrical parameters

Pole type	
Nominal voltage	
Degree of atmospheric pollution	

4. Climatic conditions

Construction area	
Terrain type for load calculation	
Terrain micro-relief for load calculation	
Wind zone by maximum wind pressure	
Wind zone for wind pressure on conductors with ice	
Wind zone for wind pressure on flat elements with ice	
Ice zone	
Seismicity on the MSK-64 scale, points	
Maximum air temperature	
Minimum air temperature	
Mean annual air temperature	
Altitude above sea level	
Route turning angle	

5. Conductors and earth wires

Number of circuits	
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Conductor type (for each circuit)	
Number of conductors per phase	
Maximum stress in the conductor	per current standards
Type of fixing of the conductor string to the pole	to be determined by the design / at the customer's request
Insulator type of the conductor string	to be determined by the design / at the customer's request
Number of insulators in the conductor string	to be determined by the design / at the customer's request
Earth wire type	
Number of earth wires if split	
Maximum stress in the earth wire	per current standards
Type of fixing of the earth wire string to the pole	to be determined by the design / at the customer's request
Insulator type of the earth wire string	to be determined by the design / at the customer's request
Number of insulators in the earth wire string	to be determined by the design / at the customer's request

6. Clearances and arrangement

Span: clearance / weight / wind	to be determined by the design / at the customer's request
Pole dimensions	to be determined by the design / at the customer's request
Terrain type for calculating the minimum vertical distance from the line conductors to the ground	
Minimum vertical distance from the line conductors to the ground	to be determined by the design / at the customer's request
Conductor arrangement	to be determined by the design / at the customer's request
Cross-arm design (polygonal / lattice)	to be determined by the design / at the customer's request

7. Pole structure

Number of shaft sections / Height of shaft sections	to be determined by the design
Joint between shaft sections	telescopic / flanged
Joint between the shaft and the foundation	telescopic / flanged
Climbing ladder required	yes / no
Steel grade	S245 and S345
Cross-section sizes of the shaft sections at the top and bottom	to be determined by the design
Design life	40 years

8. Coating and additional requirements

Corrosion protection	to be determined by the design / at the customer's request
Sketch of the pole to be designed	attached separately

The KM-stage design documentation must include: source data and scope of application; an erection scheme and drawings of the joints; a calculation sheet; loads for calculating the fixing in the ground; a steel section schedule.

Completed by (full name, position): _____

Date: _____

Signature: _____

Please send the completed form to info@polygonal.com.ua