

TERMS & CONDITIONS TO BE ISSUED WITH ESTIMATE
(Applicable for 6% Deposit NSC Works – TPWODL)

A. General Condition:

1. The work shall be executed only after full payment of Demand Note amount and completion of all required formalities.
2. The applicant shall execute the work only through a valid Licensed Electrical Contractor. (ELBO/Project Licence Certified).
3. Agreement/Willingness copy of the Licensed Electrical Contractor shall be submitted to TPWODL before commencement of work. – To be submitted by Party to the CMG back office. CMGTPWODL@tpwesternodisha.com
4. The work shall be executed strictly as per sanctioned estimate, approved BOQ, approved SLD/Layout, Field Quality Plan (FQP), and relevant applicable Standard Method of Construction.
5. Any deviation from sanctioned estimate, approved BOQ, SLD & layout or approved scope of work shall require prior approval revised estimate from TPWODL.
6. The applicant shall arrange required ROW permissions, land permissions, statutory approvals, and local authority clearances as applicable. Expenses towards ROW permission/ required approvals shall be borne by applicant.
7. Delay due to ROW issue, land dispute, statutory approval, or reasons beyond TPWODL control shall not be attributable to TPWODL.
8. TPWODL reserves the right to inspect the work and materials at any stage of execution.
9. The estimate sanction shall remain valid for period of 6 Month from the date of issuance of estimate. The work shall normally be completed within the validity period of the estimate/sanction order, if required the timeline can be extended on request of the applicant.

B. Engineering approval and Technical Approval:

1. The work shall be executed strictly as per approved TPWODL GTP/drawings/ Technical Specifications & approved SLD.
2. The link of TPWODL technical specifications is given below, applicant to ensure submission of drawings and documents in accordance to TPWODL Standard specifications:
Link: – CMG to provide the link
3. All materials and equipment shall conform to TPWODL standards, relevant IS/IEC standards, and CEA regulations as applicable.
4. Customer shall obtain the approval of GTP and drawing from TPWODL. Customer are requested to submit required GTP/drawings/Type Test Reports to engineering department inline with TPWODL Specifications for review and approval to the following mail ID – **“engineering.TPWODL@tpwesternodisha.com”**.
5. The applicant/contractor shall comply with latest CEA regulations, OERC regulations and TPWODL Technical Standards and Safety Practices.
6. Government Electrical Inspector approval/NOC wherever applicable shall be obtained before charging of installations.
7. The applicant shall submit a manufacturer's guarantee certificate for major items specified as class A in the **Annexure A1**, valid for the warranty period stipulated in the respective item/equipment specifications as per TPWODL.
8. ISI marking on the transformer is mandatory. As per Quality Control Order for Electrical Transformers- 2015, issued by Department of Heavy Industries, Government of India, the

Standard / ISI marking on Distribution Transformers is mandatory and the product should be manufactured in compliance with IS 1180 Part-1: (2014).

9. Guideline for Material Approval, Inspection, TC and Traceability Document Applicability for 6% Deposit Works shall be adhered for GTP approval process as per **Annexure-A1**.

C. Material inspection requirements:

1. Materials shall be procured only from TPWODL approved manufacturers/vendors only. Details of approved manufacturer/vendors are available at the link given below:

Link:

2. Factory inspection shall be mandatory for major materials such as Transformer, RMU, Switchgear, Pole (for quantity more than 50 Nos), HT/LT Cable and conductor more than 500 mtrs in length, CT/PT Units, ACB and other critical equipment. Guideline for Material Approval, Inspection, TC and Traceability Document Applicability for 6% Deposit Works shall be followed for inspection and document compliances of IHI as per Annexure A1.
3. Contractor/Applicant shall submit Material Inspection call of 6% deposit work to concerned Division Estimator along with required technical documents - Approved GTP and Drawing, Approved QAP, Testing/demand note payment receipts. Raw Material TC, Routine test Report of offered material with inspection call. Material readiness photographs, serial number details, RMTC, invoices, calibration report, and type test reports shall be submitted during inspection.
4. Inspection intimation shall be submitted to the TPWODL at least 7 days prior to the proposed inspection date.
5. Materials shall be dispatched only after inspection and MDCC clearance by TPWODL Quality Department.
6. All major materials received at site/store shall be jointly inspected by TPWODL representative before installation.
7. All major materials like Transformers, Switchgears, RMUs, Poles, HT/LT Cable and conductor received at the Site/BA Store, after factory inspection, shall be jointly inspected for quality and specification compliance before use. Materials purchased should have original in-voice copy of manufacturer / distributor, test report. MDCC (Material Dispatch Clearance Certificate) copy issued from TPWODL. The contractor shall submit an intimation for post-dispatch inspection to TPWODL at least 7 days in advance
8. Only approved and inspected materials shall be permitted for installation.
9. TPWODL reserves the right to reject non-compliant, damaged, duplicate, or unapproved materials.

D. Site Quality Inspection/IHI Requirements.

1. TPWODL shall conduct Stage Inspection, Final site Inspection (In-House Inspection) during execution and before charging.
2. Stage inspection shall be mandatory for UG Cable Works, 33kV Line Works, PSS/Substation Works and 11kV Line Works exceeding 5 KM, and DTR installation works.
3. The Field Quality Plan (FQP) shall be strictly followed during the execution of HT line, Distribution Sub-station, LT line, and UG cable. The contractor shall also adhere to the pre-IHI checklist. FQP & Pre-IHI Checklists are available on below link.

FQP : _____

Pre-IHI Checklist : _____

4. Site inspection shall verify approved material usage, workmanship quality, safety compliance, compliance to approved BOQ and drawings.
5. Contractor shall install distribution transformer at site as per MDCC customer allotment.
6. Contractor/Applicant shall submit site Inspection call of 6% deposit work to concerned Division Estimator along with required technical document - Site readiness photographs, installation records, work completion certificate, Pole schedule, estimate copy, material test report, purchase invoices and pre-commissioning reports shall be submitted before final inspection.
7. Inspection intimation shall be submitted to the TPWODL at least 7 days prior to the proposed inspection date.
8. Any observation/punch point raised during IHI shall be rectified before re-inspection and Contractor/Applicant shall submit the compliance report with point wise photographs within 10 days after completion of inspection.
9. Final IHI clearance shall be issued only after closure of all observations/punch points.
10. After completion of IHI process, the contractor/applicant shall obtain approval from Government Electrical Inspector wherever applicable.
11. Quality clearance shall be granted only after satisfactory compliances of all statutory requirements.
12. TPWODL reserves the right to stop work or withhold charging permission in case of poor workmanship, safety violations, use of unapproved material, deviation from approved specification, or non-compliance of TPWODL/CEA/IE standards.

Annexure-A1

Guideline for Material Approval, Inspection, TC and Traceability Document Applicability for 6% Deposit Works

Abbreviation	Meaning
✓	Applicable/Required
X	Not Applicable
Q	Quantity threshold condition

Class A = Critical Materials

Class B = Major Materials

Class C = General Materials

SI No	Material Category	Material Details	Class of material	GTP Approval	Factory Inspection	Material TC with Traceability	TPWODL Approved Make (Annexure-A) Traceability/Purchase invoice
1	Autorecloser & Sectionaliser	33KV & 11KV Auto recloser & Sectionaliser	A	✓	✓	✓	✓
2	Capacitor Bank	Capacitor/ Series reactor	A	✓	✓	✓	✓
3	Transformer/Feeder Control & Relay Panel	11kV & 33kV Transformer/Feeder Control & Relay Panel	A	✓	✓	✓	✓
4	GIS & accessories	GIS panel/ GIS accessories	A	✓	✓	✓	✓
5	Indoor HT Switch Board	11KV VCB panel with protection	A	✓	✓	✓	✓
6	Power Transformer	Transformer with HT Voltage ratio (PTR)/ 11KV LVRT	A	✓	✓	✓	✓
7	RMU	33KV & 11KV RMU	A	✓	✓	✓	✓
8	RTU	RTU Panel/ FRTU	A	✓	✓	✓	✓
9	Vacuum Circuit Breaker	11KV, 33KV outdoor VCB	A	✓	✓	✓	✓
10	Distribution Transformer	Voltage class of 11/0.433KV & 33/0.433KV Transformer	A	✓	✓	✓	✓
11	Battery & Battery Charger	VRLA Battery/ Lead-acid Battery & SMPS/Thyristor based battery charger	A	✓	✓	✓	✓
12	AB Cable	AB Cable	B	✓ Q > 0.5Km X Q < 0.5Km	✓ Q > 0.5Km X Q < 0.5Km	✓	✓
13	AB Switch	11KV & 33KV AB Switch	B	X	X	✓	✓
14	Air Circuit Breaker	Air Circuit Breaker	B	✓	✓	✓	✓
15	MCB/MCCB	MCB/MCCB	B	X	X	✓	✓
16	Bare Conductor	Conductor	B	✓ Q > 0.5Km X Q < 0.5Km	✓ Q > 0.5Km X Q < 0.5Km	✓	✓
17	Control Cable	1.1KV control Cable	B	✓ Q > 0.5Km X Q < 0.5Km	✓ Q > 0.5Km X Q < 0.5Km	✓	✓
18	Covered Conductor	11KV & 33KV Covered conductor	B	✓ Q > 0.5Km X Q < 0.5Km	✓ Q > 0.5Km X Q < 0.5Km	✓	✓
19	Distribution Board	LTDB/ MCCB DB/ Polycarbonate DB/ Feeder Pillar	B	✓	✓	✓	✓
20	FPI	11KV & 33KV FPI with accessories	B	✓	✓	✓	✓
21	HT Power Cable	11KV & 33KV, 1C & 3C Power Cable	B	✓ Q > 0.5Km X Q < 0.5Km	✓ Q > 0.5Km X Q < 0.5Km	✓	✓
22	Instruments Transformer	Oil cooled CT, PT/ Resin Cast CT,PT	B	✓	✓	✓	✓

23	Isolator	Isolator with Earth switch/ Isolator without earth switch/ Isolator accessories	B	✓	✓	✓	✓
24	Lightning Arrester	11KV LA	B	X	X	✓	✓
25	Lightning Arrester	33KV LA	B	✓	✓	✓	✓
26	LT Power Cable	1.1 KV Power Cable/ Service cable	B	✓ Q > 0.5Km X Q < 0.5Km	✓ Q > 0.5Km X Q < 0.5Km	✓	✓
27	PSC Pole	8mtr & 9mtr PSC Pole	B	✓ Q > 50 No X Q < 50 No	✓ Q > 50 No X Q < 50 No	✓	✓
28	Steel Pole	RSJ pole/ WPB pole/ H-Beam/ Tower/ Lighting pole	B	✓ Q > 50 No X Q < 50 No	✓ Q > 50 No X Q < 50 No	✓	✓
29	Service cable	1.1 KV 2CX4 sq. mm. service cable/1.1 KV 2CX6 sq. mm. service cable	B	X	X	✓	✓
30	Earthing material	Earthing pipe/ Earthing flat/ Earthing wire	C	X	X	X	✓
31	Hardware material	All MS material/ clamps/ channel/ Angle/ connector/ GI wire/ Stay set/Barbed wire/GI Flat	C	X	X	X	✓
32	HT Line accessories	DO Fuse/ HG fuse	C	X	X	X	✓
33	Insulator	Pin Insulator/ Disc Insulator/ Guy Insulator (Porcelain or Polymer)	C	X	X	X	✓
34	Jointing Kit	HT jointing kit with accessories	C	✓	✓	✓	✓
35	Junction Box	CTJB/ PTJB/ Dummy Box/ Controller Kiosk	C	X	X	X	✓
36	LT Line accessories	Suspension clamp/ dead end clamp/ IPC/ jointing sleeve (LT ONLY)	C	X	X	X	✓
37	MVCC Accessories	Suspension clamp/ dead end clamp/ IPC/ jointing sleeve	C	#	#	X	✓
38	HDPE Pipe	HDPE	C	X	X	X	✓
39	Safety equipment's	Danger Board/Anticlimbing Device	C	X	X	X	✓