



TPWODL
TP WESTERN ODISHA DISTRIBUTION LIMITED
(A Tata Power and Odisha Government Joint Venture)

FIELD QUALITY PLAN

Doc. Title	Field Quality Plan for LT Line		
Doc. No.	TPWODL-Quality-FQP-03		Date: 01.12.2025
Rev. No.	0		Other detail:
	Prepared By: LE, Quality	Reviewed by: TL, Quality	Approved By: HOG, Quality

A.	Process Description: -		Pre-Execution Check							
Sl. No.	Activity		Characteristics	Type of Check	Acceptance Norms	Reference Standard	Frequency of Check			Remarks
							BA	SSE	QA	
1	Receipts and storage of material	1.1	Recipes at Store/Site	Visual	Material makes to be verified as per Approved Manufacturer List of TPWODL	MDCC/ Inspection report / Original Invoice Copy	P	W	R	P - perform W - witness R – Review & Verification
		1.2	Visual Inspection	Visual	Damaged materials during transit are stacked separately if any found during inspection.	As per standard	P	W	R	
		1.3	Storage	Visual	Received materials are stored as per standard practice.	MDCC/ Inspection report /Original Invoice Copy	P	W	R	
2	Availability of Material & Resources	2.1	All materials should be available as per the estimated BOQ.	Visual	There should not be any damage/ deterioration in the available materials.	Estimated BOQ	P	W	R	
		2.2	Manpower	Visual	Required Manpower shall be available as per norms.	As per Standard	P	W	R	
		2.3	Tools & Tackles	Visual	Tools & Tackles for the execution of job shall be readily available and in good working condition.	As per Standard	P	W	R	
3	Transportation	3.1	Transportation of material	Visual	Transportation of material from BA store to site in proper way to avoid any damage to the material.	As per Standard	P	W	R	
B.	Process Description: -		During Execution Check							
Sl. No.	Activity		Characteristics	Type of Check	Acceptance Norms	Reference Standard	Frequency of Check			Remarks
							BA	SSE	QA	
4	Pole Erection	4.1	Excavation of Pit	Physical	1/6 th Length of the pole.	Approved Drawing/RO/Estimate	P	W	R	
		4.2	Pole grouting/Concreting	Physical	Volume and Ratio as per RO/Estimate copy	Approved Drawing/RO/Estimate	P	W	R	
		4.3	Pole alignment.	Physical	Pole alignment shall be proper.	As per Standard	P	W	R	
		4.4	Muffing/Couping	Physical	Volume and Ratio as per RO/Estimate copy	Approved Drawing/RO/Estimate	P	W	R	
		4.5	Paint	Physical	GIS Numbering & Zebra Stripping to be done.	Approved Drawing/RO/Estimate	P	W	R	
		4.6	Anti-climbing devices	Physical	Danger Board & Barbed Wire shall be fixed with fixing clamp	As per RO/Estimate	P	W	R	
		4.7	Coil Earthing	Physical	1. Coil earthing shall be done as per drawing. 2. Connection to be done between spiral wire and pole earth wire.	Approved Drawing/ RO/Estimate	P	W	R	

Sl. No.	Activity		Characteristics	Type of Check	ACCEPTANCE NORMS	Reference Standard	Frequency of Check			Remarks
							BA	SSE	QA	
5	LT Stay Set	5.1	Excavation of Pit	Physical	As per Approved stay construction Drawing	As per Approved Drawing	P	W	R	
		5.2	Grouting of Anchor plate and Anchor rod with earth Filling	Physical	As per Approved stay construction Drawing	As per Approved Drawing	P	W	R	
		5.3	Erection of Guy insulation	Physical	As per Approved stay construction Drawing	As per Approved Drawing	P	W	R	
		5.4	Stay Wire	Physical	1. Stay wire size to be as per RO/Estimate. 2. Proper fixing and tightening to be done for stay wire.	As per Approved Drawing	P	W	R	
		5.5	Fixing of Complete Stay set	Physical	Complete Stay set includes: 1. Turn buckle assembly 2. Stay Rod & Stay Plate 3. Stay insulator 4. Stay Wire 5. Stay clamps with nuts & bolts	As per Approved Drawing	P	W	R	
6	Pole Clamp	6.1	Erection of Pole clamp	Physical	1. Pre check should be done for pole clamp regarding crack. 2. Dimension to be checked as per drawing	As per Drawing	P	W	R	
7	Dead End , Suspension, I hook And IPC connector	7.1	Fixing of Eye Hook and Suspension/ Dead end clamp	Physical	From LT ABC to Service distribution box connected by PVC wire as per RO with proper IPC connection.	As per standard	P	W	R	
8	LT ABC	8.1	Handling of the cable.	Physical	Cable should be care- fully handled to avoid any damage. Cable Surface shall be free from fault, Flaws etc.	As per Standard	P	W	R	
		8.2	Check the ground clearance after the erection of the ab Cable.	Physical	Ground clearance should be as CEA guideline.	CEA Guidelines	P	W	R	
		8.3	Stringing of LT ABC	Physical	1. Proper SAG to be maintained as per 2. Cable joint should be done at Pole by IPC connector.	CEA Guidelines	P	W	R	
		8.4	Check the tightness of cable with clamp.	Physical	As per SOP and Approved drawing/ Eye hook, Dead end and suspension clamp to be fixed at the position of working load of pole.	As per Approved LT ABC construction Drawing	P	W	R	
9	Service Distribution box	9.1	Fixing of service Distribution box	Physical	Tightness to be checked for cable with clamp.	As per Standard	P	W	R	
		9.2	Earthing for service Distribution box	Physical	Fixing of Distribution box by clamp arrangement with Pole As per standard.	As per Standard	P	W	R	
		9.3	Connection for service Distribution box	Physical	Earthing to be connected by GI wire with Distribution box.	As per standard	P	W	R	
		10.1	Earthing for All metallic items	Physical	All Metallic items like pole clamp, Chanel, Angle, I hook, Dead clamp, Suspension clamp, Service box, bare Messenger wire shall be connected with Earth wire of PSC pole.	As per standard	P	W	R	

10	Earthing	10.2	Coil Earthing	Physical	1. Coil earthing to be done for all PSC pole as per RO/ Estimate 2. Earth wire of PSC pole to be connected with coil earthing by proper size of Nut bolt	As per RO/Estimate	P	W	R	
		10.3	Pipe Earthing	Physical	Pipe earthing to be done for Every 5Th Pole as per RO/Estimate	As per RO/Estimate	P	W	R	

Abbreviations:

BA: Business Associate

SSE: Site Supervising Engineer
(Project/SDO/Section Manager/Div Estimator)

QA: Quality Assurance Team