

TP Southern Odisha Distribution Ltd.							FQP No		TPSODL/ENGG/FQP/PCC Poles	
Field Quality Plan For PCC Poles							Date		01.03.2021	
							Rev No.		0	
S. NO.	Components /Characteristics	Type of check	Extent of check	Reference Standard	Format of Record	Check By		Remarks		
						BA	TPDDL			
1.0	Raw Materials									
1.1	Cement	Normal consistency Setting Time Compressive Strength Fineness	Lab Test	Each Lot / Batch	IS: 8112, 12269, 4031	Manufacturer's Test Certificates	P	R	Record of cement brand & grade shall be maintained.	
1.2	Coarse Aggregate	Flakiness index & Elongation index test Sieve analysis Deleterious Material and Organic Impurities	Lab Test	Each Lot / Batch	IS: 383, 2386	Test Record / Test report from External Approved Lab	P	RI	Source shall be got approved in case of change of source.	
1.3	Fine Aggregate	Sieve analysis Dry loose bulk density Moisture content % silt / Clay content Deleterious Material and Organic Impurities	Lab Test	Each Lot / Batch	IS: 383, 2386	Test Record / Test report from External Approved Lab	P	RI	Source shall be got approved in case of change of source.	
1.4	Water Sample Analysis	Physical and Chemical Tests	Lab Test	Once in every twelve months or Change of source	IS: 456	Test report from External Approved Lab	P	H		
1.5	Reinforcement Steel	Chemical Tests and Physical Tests (Tensile Strength, Proof Stres, Ductility, Elongation)	Visual / Lab Test	Each Lot / Batch	IS: 6003	Manufacturer's Test Certificates	P	R		
		Chemical Tests and Physical Tests (Tensile Strength)	Lab Test	Each Lot / Batch	IS: 6003, 1521	Test report from External Approved Lab	P	H		
2.0	Mix Design	Mix Design	Lab Test	Once in every twelve months or Change of source	IS: 10262, 456	Mix Design Report from External Approved Lab	P	R		
3.0	Before placing concrete	Form work Concrete arrangement Reinforcement, Inserts or Embedded Parts, Prestressing, Holes or Pockets	Measurement Visual Visual Measurement Visual	100%	IS: 1343, 456 / Drawing / Technical Specifications	Inspection Record	P	RI		

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4.0	Fresh concrete Test	Slump Test	Measurement	Every batch	IS: 456 / Design Mix	Test Record	P	RI		
		Cube Test	Lab Test	One set of cubes for every shift	IS: 456 / Design Mix	Test Reports	P	RI		
5.0	PCC Poles									
5.1	Size	Overall length	Measurement	Each Lot	IS: 1678 / Drawing	Test Reports	P	RI		
		Cross-sectional dimensions	Measurement	Each Lot	IS: 1678 / Drawing	Test Reports	P	RI		
		Uprightness or Straightness	Measurement	Each Lot	IS: 1678	Test Reports	P	RI		
5.2	Hardened Concrete Test on Drilled Cores	Compressive strength test	Lab Test	Every 300 Poles	IS: 516,1199 / Mix Design	Test report from External Approved Lab	P	H		
		Cement content	Lab Test	Every 300 Poles	IS: 516, 1199 / Mix Design	Test report from External Approved Lab	P	H		
5.3	Transverse Strength Test	Deflection	Measurement	Each Lot	IS: 1678, 2905	Test Reports	P	RI		

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		Load	Measurement	Each Lot	IS: 1678, 2905	Test Reports	P	RI		
		Size and Nos. of Cracks	Measurement	Each Lot	IS: 1678, 2905	Test Reports	P	RI		
		Concrete Cover	Measurement	Each Lot	IS: 1678, 2905, 456 / Drawing	Test Reports	P	RI		
5.4	Earthing	Projection from concrete surface	Visual / Measurement	Random	IS: 1678 / Drawing / Technical Specifications	MDCC	P	RI		
5.5	Providing anti corrosive treatment to tendons	Providing anti corrosive treatment to tendons	Visual	Random	Drawing / Technical Specifications	MDCC	P	RI		
5.6	Marking	Indication of source of manufacture	Visual	Random	IS: 1678 / Drawing / Technical Specifications	MDCC	P	RI		
		Property of TPSODL	Visual	Random	IS: 1678 / Drawing / Technical Specifications	MDCC	P	RI		
		Month and year of manufacture	Visual	Random	IS: 1678 / Drawing / Technical Specifications	MDCC	P	RI		
		Serial number of pole	Visual	Random	IS: 1678 / Drawing / Technical Specifications	MDCC	P	RI		
		Position of Centre	Visual	Random	IS: 1678 / Drawing / Technical Specifications	MDCC	P	RI		

NOTE: All tolerances shall be as per the IS standards.

P - Perform

H - Hold

R - Review

RI - Random Inspection