



BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

FIELD QUALITY PLAN

Item	Switchyard Civil works	FQP No.	001
Applicability	BSPTCL Projects	REV.	00
Date of Issue	15.01.2016		
Validity	Till next revision		
TESTS TO BE PERFORMED AT LAB ESTABLISHED BY THE CONTRACTOR AT SITE			

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S. No.	Description of Activity	Items to be Checked	Tests/Checks to be done	Ref. documents	Check/Testing		Counter Checks/Tests by BSPTCL	Accepting authority in BSPTCL
					Agency	Extent		
1.	Cement Concrete	a) Compressive Strength test	Cube Test	IS: 456	Contractor/BSPTCL Engineer	Minimum 3 samples per 5 cum concrete mix for 7 & 28 days test.	Verification at Random	Engineer-in-charge
		b) Workability	Slump Test	IS: 456	Contractor/BSPTCL Engineer	Day to day work at site	Verification at Random	Engineer-in-charge
2.	Aggregate (Fine & Coarse)	Sieve Analysis	Size of aggregate	IS: 383	Contractor/BSPTCL Engineer	Grading to be done of every lot of aggregate brought at site.	Verification of every lot of aggregate brought at site.	Engineer-in-charge
3	Brick	Compressive Strength Test	Compressive Strength Test	IS: 3495	Contractor/BSPTCL Engineer	Every lot of brick brought at site.	Verification of every lot of brick brought at site.	Engineer-in-charge
		Water Absorption test	Water absorption	IS: 3495	Contractor/BSPTCL Engineer	Every lot of brick brought at site.	Verification of every lot of brick brought at site.	Engineer-in-charge
4	Cement	Consistency Test	Consistency Test	IS: 5513	Contractor/BSPTCL Engineer	Every lot of brick brought at site.	Verification at every lot of cement brought at site.	Engineer-in-charge

General Notes:-

Testing Lab has to be established by the contractor at site shall at least consist of following apparatus /machineries with sufficient number of testing personnels:-

- a. Compressive Strength Testing Machine.
- b. Slump Testing Apparatus.
- c. Aggregate Impact Value (AIV) Testing Apparatus.
- d. Standard Procter Density Testing Apparatus.
- e. IS Sieve designation as mentioned in annexure- 3 & 4.
- f. Cement Consistency Test Apparatus.