

TRANSFORMER TEST GROUP **Annexure-1**
SCOPE OF WORK IN TTG FOR CONNECTION/ MONITORING WORK DURING TESTING OF TRANSFORMERS, REACTORS, BUSHINGS, CAPACITOR, CTs & CVTs

DESCRIPTION OF JOBS/ TESTS		TENTATIVE JOBS TO BE TESTED	TEST CONNECTION / MONITORING TIME in Hrs	NO. OF PERSON REQUIRED TO PERFORM CONNECTION / MONITORING WORK	SPECIFIC ACTIVITY TECH HOURS REQUIRED FOR CONNECTION / MONITORING WORK
A. Power Transformer test area					
Routine tests					
Transformers	1-Phase, 400 kV	18	20	2	720
	1-Phase, 765 kV	6	30	2	360
	3- Phase, ICT	10	50	2	1000
	3- Phase, GT	8	35	2	560
	HVDC	3	70	2	420
Reactors	400 kV	15	39	2	1170
	765 kV	4	48	2	384
Type tests and Special tests					
Heat run test		15	28	2	840
Zero Seq. test		15	8	1	120
RSO test		2	8	1	16
Noise level test		20	4	1	80
Harmonics measu.		10	4	1	40
FRA test		100	6	1	600
Testing of transformer core		18	14	1	252
Testing of other product		40	15	1	600
Test Plant connection		280	4	1	1120
Capacitor Bank Connections		240	6	1	1440
Performance Testing before final testing in PF test		160	8	1	1280
Monitoring of test Conditions, plant and Lab (in Days)		150	16	2	4800
Testing for RCA and development		40	8	1	320
HV Calibraton		15	6	1	90
Test Plant instrument Calibration		30	4	1	120
B. Instrument transformer test area					
Ring CT		200	2	1	400
CT		100	6	1	600
CVT		150	4	1	600
Ring Core		200	2	1	400
Performance Testing before final testing in IT		150	3	1	450
C. Bushing test area					
Routine tests		180	2	1	360
Performance Testing before final testing		75	2	1	150
Testing for RCA and development		50	2	1	100
D. Capacitor test area					
Routine tests		150	2	1	300
Type and special tests		20	4	1	80
Performance Testing before final testing		50	2	1	100
Testing for RCA and development		10	6	1	60
E. MG Room and test plant					
MG Room operation and monitoring (in Days)		180	16	1	2880
Total Tech Hours required					22812