

The test station was established for more than 20 years, and also has experienced more than 20 years. Now we can test the transformers that the capacity upto 400MVA, 500KV, We can carry out all the test for transformer only except dynamic short circuit test.

Test facilities list of QRE

No.	Ichnography No.	Equipment name	Type and specification	Qty
1		Electric Generator set		1set
	1-1	Synchronous Generator	7500kVA, 3 ϕ , 6.3kV, $\cos \phi =0.1$, 50Hz	1
	1-2	Synchronous Electromotor	1250kW, 3 ϕ , 10kV, 50Hz	1
	1-3	Wire Asynchronous Electromotor	240kW, 3 ϕ , 380V, 50Hz	1
	1-4	Liquid Rheostat Cabinet	Concurrently 240kW Generator Starting Cabinet	1
	1-5	Degaussing Screen		1
	1-6	Excitation Synthesis Controller of synchronomotor	Crystal Tube Type with0~10mA Excitation Synthesis Adjuster	1
	1-7	Excitation Synthesis Controller of Electromotor	Crystal Tube Type with0~10mA Excitation Synthesis Adjuster	1
2		Excitation synthesis controller set	Include:	1set
	2-1	Asynchronous Electromotor	45kW, 3 ϕ ,6.3kV, 200Hz	1
	2-2	DC Electric Generator	35kW, 95V	1
3		Electric Generator set	Include:	1set
	3-1	Synchronous Generator	2000kVA, 3 ϕ ,6.3kV, 200Hz	1
	3-2	Synchronous Electromotor	680kW, 3 ϕ , 10kV, 50Hz	1
	3-3	Excitation Synthesis Controller of synchronomotor	Crystal Tube Type with0~10mA Excitation Synthesis Adjuster	1
	3-4	Excitation Synthesis Controller of electromotor	Crystal Tube Type	1
4		Electric Generator set	Include:	
	4-1	Synchronous Generator	2000/1000kVA, 3 ϕ , 6.3/3.15kV, 100/50Hz	1
	4-2	Synchronous Electromotor	500/250kW, 3 ϕ , 50Hz, 380V	1

	4-3	Excitation Synthesis Controller of synchromotor	Crystal Tube Type with0~10mA Excitation Synthesis Adjuster	1
	4-4	Excitation Synthesis Controller of Electromotor	Crystal Tube Type	1
	4-5	Generator console		1
5	5	Step-down voltage starting cabinet	JJ1K-250/380-2	1
6		Thin oil station	XYZ-40G	1
	6-1	Station body		1
	6-2	Electric control box		1
	6-3	Instrument panel		1
7	7-1~14	HV switchgear cubicle	XGN2-10	14
8	8-1~9	LV switchboard	GGD	9
9		Impulse voltage test equipment	Include:	1set
	9-1	Impulse voltage generator	1800kV	1
	9-2	Chopped wave advice	1600kV	1
	9-3	Voltage divider	1800kV	1
	9-4	Console		1
	9-5	Power supply device		1
	9-6	Impulse digital measurement system		1
10		Power frequency HV test equipment	Include:	1
	10-1	Trial transformer	0.4/300kV single phase, 50Hz, 300kVA overload:1.5times, 15mins	
	10-2	Regulator	Single phase,50Hz, 315kVA, 0.38/0~0.42kV	1
	10-3	Console		1
	10-4	Protection resistant		1
	10-5	Voltage divider	300kV/150kV	1
	10-6	Compensation Reactor	1 ϕ , 50Hz, 3*100kVAr	1
11		Power frequency HV test equipment	Include:	1set
	11-1	Trial transformer		1

	11-2	Regulator	Single phase,50Hz, 100kVA 0.38/0~0.42kV	1
	11-3	Console		1
12	12	Power frequency HV test device	0.22/5kV single phase, 50Hz, 3kVA	1
13	13	Mid-Trial transformer	3 phase 8000kVA, 50/100/200Hz $2*3/ ((2*11)^{+7*2.5} -4*2.5)$ kV partial discharge can be less than 40pc	
14	14	Support transformer	Single phase, 100/200Hz 6.3/40-60-80-100kV, 1000kVA	1
15	15	Compensation Reactor	1 ϕ /3 ϕ , 100/200Hz 3*400kVAr, 6.3kV	1
16	16	Ball gap	ϕ 500mm movable	1
17	17	Voltage Divider	100-250-500kV	1
18	18-1~3	Accurate Current transformer	5~10~20~30~50~100~200~400~600	3
			1000/5A, 1 ϕ , 10VA, 0.1 class 50Hz, 66kV	
			partial discharge can be less than 10pc	
19	19-1~3	Accurate Voltage transformer	3~6~10~20~40~66/ $\sqrt{3}$ /0.1/ $\sqrt{3}$ kV	3
			1 ϕ , 5VA, 0.1class, 50Hz, partial discharge can be less than 10pc	
20	20	Compensation Reactor Set	Total capacity 90000kVAr, 11~66kV	
21	21	Lift device	Ascendant Height: 1.5m carrying capacity: 0.5T	1
22	22	Test desk		1
23	23	Console		1
24	24	HV isolate switch	GN19-10/400	1
25	25	HV isolate switch	GW5-1250/110D motor-driven operation	1
26	26-1~3	Wall Bushing	110kV, 1250A horizontal	3
27	27-1~3	Wall Bushing	110kV, 630A vertical	3
28		ratio testing instrument by micro-computer	2B3 type, 0.1class, digital type with printer	1
29		HV electric bridge	QS39 type	1
30		Oil withstand voltage test equipment	80kV	1

31		Partial discharge testing instrument	JFD-2B type	1
32		DC resistant testing instrument	JD2520, 2540	1
33		Harmonic Analysis Instrument	GXF-2	1
34		Accurate Sound Level Meter	Attach Piston Generator	1
35		Power Analysis Instrument	D6133T	1
36		Insulation resistant testing meter	2500V, Resolution 10^4 m Ω 500V, Resolution 10^5 m Ω	
37		Other instrument		1set
38	28	Signal cabinet		1
39	29	DC power supply	GKA21-200/220	1
40	30	Switchboard	XF-10-11	
41	31	Switch switchgear	110kV, 1250A, 1 on 1 off AC220V include:1,2XK limit switch	3
42	32	Alarm lamp	JCD-633, Barrier lamp AC220V, 60W	5
43	33,34	Alarm bell	UC4-200 AC220V, ϕ 75	2
44		Power frequency testing transformer	YDTW-200/200	1
45		Intermediate frequency test reactor	YDK-6*315/6.3	1
46		Precision Voltage Transformer	HJ12-110Y1/01	1
47		Precision Current Transformer	HL28-110Y7.5/01	1
48		Computer controlled test equipment transformer	SYBS-2	1 set
49		Impulse voltage generator test equipment	CDYL-1000KV/75KJ	1 set
50		Power Analyzer	N5K3PP641	1
51		Power frequency generator and associated control equipment	7500 kVA/50Hz/60Hz	1 set
52		Intermediate frequency generator and associated control equipment	2000 kVA/200Hz	1 set
53		Capacitor Test Equipment for Transformer Test	TBB 114.3/11-75600	1 set

54		Capacitor Test Equipment for Transformer Test	TBB 26.4/3.81-14100	1 set

1. Fully electromagnetism shielded test station:



2. Frequency test transformer YDTW-600/300



3. Lightning impulse test equipment 2400kV/240kJ



4. Computer controlled test equipment transformer



5. Intermediate frequency test reactor

