Results of Routine Testing of L3W YaS

1. **GENERAL :—**

   1.1 Name of sub-station/Power house . ... Date . ...

   1.2 Name of line ....Circuit breaker no ....

   1.3 Details of relay : —

   Sl. No......... ....Type... . ... Make :- Brown–Boveri

2. **SETTINGS :—**

   Im = ...,.. Um = ... $ZAZ\theta$ = ...,Ohms/ph, ZA = ...,.... ...

   $PTA\triangle$ = ... ,$PTAW$ = ... ,PT_{rh} = ..., $MCoS\phi$ = ...

   PT_aE = ... ,PT_rW .... ,RLV = ... , Time T_a = ...

   wL = ...,u = ... , C = ...

   2.1 **GOVERED IMPEDANCES :—**

	Primary value in ohms	Secondary value in ohms
Zone I		
Zone II		
Zone III		
Zone IV		

3. **CHECKING OF D.C. SEQUENCE :—**

   D.C. sequence checked, the results are O.K.

4. **NOTE :—**

   4.1 Remove D.C. (by removing D.C. plug)

   4.2 Short C.T. circuit (by dropping links 1, 2, 3, 4)

   4.3 Carrier links 14, 16, 17 are to be kept open.

5. **ACCURACY OF IMPEDANCE MEASUREMENTS RELAYS :**

Nature of faults	Relay Z		ZAR	ZAS	ZAT
	Setting ohms/ph	Theoretical value from annex 6a	% Z Measured value	% Z Measured value	% Z Measured value
Double phase faults (switch position, g_1)					
Single phase faults (switch position g_2)					
Three phase faults (switch position g_3)					

6. D.C. INTERLOCKED SUPPLY CHECKED AND IT IS ....

7. ACCURACY OF TIMER CHECKED

CHECKING OF CM RELAY :

Nature of fault	Step I-II			Step II-III			Step III-IV			Step IV-V		
	Settings I	Theoretical value %Z from annex 6b	Measured value %Z R|S|T	Settings II	Theoretical value %Z from annex 6b	Measured value %Z R|S|T	Settings III	Theoretical value %Z from annex 6b	Measured value %Z R|S|T	Settings IV	Theoretical value %Z from annex 6b	Measured value %Z R|S|T
1. Ph. Fault (g_2)												
2. Ph. Fault (g_1)												
3. Ph. Fault (g_3)												

Checking of L6ft. Relay :—   (Accuracy of CM 3 relay)   Settings   PT aH=............PT aS=............

cuo =

wl =   C=............

Nature of fault	Hg_3 (Trans.) Setting %V	Theoretical value %Z (Annex 6b)	Measured value R S T	Remarks
Single phase fault (Switch on g_2)				

Countersigned by

Executive Engineer (T & C)   Tested by   Assistant Engineer (T & C)