



LV EQUIPMENT PERFORMANCE TEST REPORT  
(Basic Information to be filled by Consultant)

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To : Head of District, SYABAS District \_\_\_\_\_

Consultant : \_\_\_\_\_

Name of Development : \_\_\_\_\_

File No : \_\_\_\_\_

Date : \_\_\_\_\_

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1. SWITCH BOARD

1.1 VISUAL CHECK:

BIL.	CHECK DESCRIPTION	REMARKS
1.	NAME PLATE	
2.	PART LAYOUT	
3.	TYPE AND RATING OF EACH DEVICE	
4.	COMPONENTS ARRANGEMENT	
5.	GENERAL ASSEMBLY	
6.	BUSBAR SIZES	
7.	EARTH BAR SIZES	
8.	WIRING	
9.	LABELLING	
10.	OTHERS	

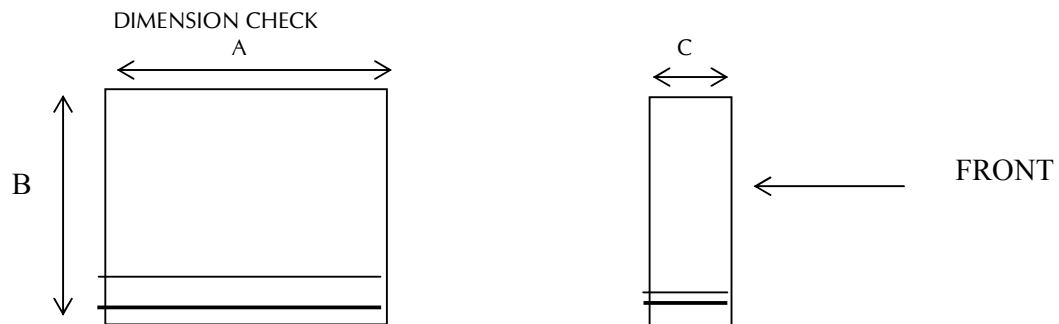
Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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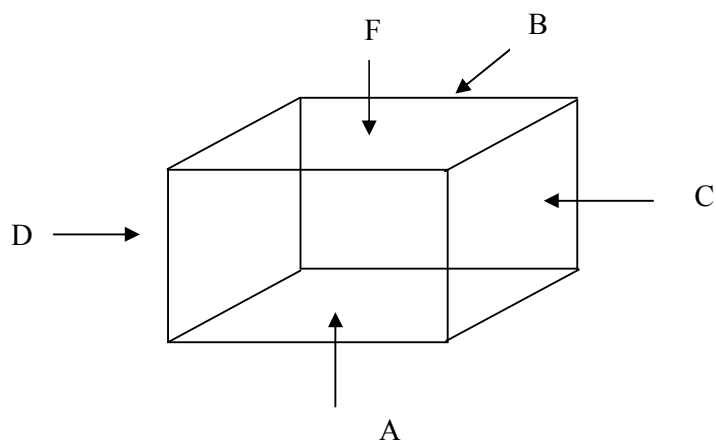
	A	B	C
PLAN			
RESULT			

TOLERANCE TABLE

0 mm TO 999 mm :  $\pm 0.5 \%$

1000 mm TO 8000 mm :  $\pm 0.3 \%$

2 PAINTING CHECK



	UNIT ( $\mu M$ )				
	A ( FRONT )	B ( REAR )	C ( RIGHT SIDE )	D ( LEFT SIDE )	E ( INTERNAL )
RESULT					

DESIGN CRITERIA – MORE THAN  $75 \mu m$

Others : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Comments : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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**3.0 INSULATION TEST – 500V MEGGER**

	RESULT (MEGA-OHM) BEFORE DIELECTIRIC	RESULT (MEGA-OHM) AFTER DIELECTIRIC
R – Y PHASE		
Y – B PHASE		
B – R PHASE		
R – N PHASE		
Y – N PHASE		
B – N PHASE		
R – E PHASE		
Y –EB PHASE		
B – E PHASE		
N – E PHASE		

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4.0 DIELECTRIC STRENGHT TEST – 2500V 1 MIN.**

CONNECTION	RESULT (LEAKAGE mA)	REMARKS
R – Y PHASE		
Y – B PHASE		
B – R PHASE		
RYB – N PHASE		
RYBN – E PHASE		

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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**1.0 CONTACT RESISTANCE TEST**

ITEM	CIRCUIT/EQUIPMENT REFERENCE	INJECTED PHASE	INJECTED DC AMP	MEASURED DCmV	CONTACTS RESISTANCE	REMARKS

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**6.0 CURRENT TRANSFORMER TEST**

DESIGNATION	SERIES NO	TYPE	CLASS	RANGE	PHASE

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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## 7.0 PROTECTION RELAY TEST

### a. CURRENT TRANSFORMER DETAIL:

DESCRIPTION		PHASE	SERIAL NUMBER	REMARKS
RATIO :		R		
CLASS :		Y		
BURDEN :		B		
FUNCTION :		N		

### b. O/C & E/F RELAY DETAIL:

DESCRIPTION		TEST SETTING			REMARKS
		RELAY	CURRENT SETTING	TIME SETTING	
SERIAL NO :		OC EF			
MAKE :					
MODEL :					
TEST SETTING					
	MEASURED SETTING				REMARKS
		RELAY	CURRENT SETTING	TIME SETTING	
SERIAL NO :		OC EF			
MAKE :					
MODEL :					
TEST SETTING					

## 8. INSTRUMENT & METERING EQUIPMENT

### A. AMMETER

DESIGNATION	SERIAL NO:	CURRENT INJECTION (A)			RANGE	RATIO	ACCURACY
		25 %	50 %	100 %			

### B. VOLTMETER

DESIGNATION	SERIAL NO:	VOLTAGE APPLICATION (V)				RANGE	ACCURACY
		240V	375V	415V	430V		

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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Comments :

\_\_\_\_\_

## 8.1 INSTRUMENT & METERING EQUIPMENT

### A. CURRENT TRANSDUCER

DESIGNATION	SERIAL NO:	CURRENT INJECTION (A)					RANGE	RATIO	ACCURACY
		0	1.25	2.5	3.75	5			

### B. VOLTAGE TRANSDUCER

DESIGNATION	SERIAL NO:	VOLTAGE APPLICATION (V)					RANGE	ACCURACY
		0 V	125V	250V	375V	500V		

Others :

\_\_\_\_\_

Comments :

\_\_\_\_\_

## 9. FUNCTIONAL TEST ON INCOMING ACB

NO	DESCRIPTION	RESULT	
		Pass	Fail
1.	Electrical Interlock Test		
2.	Mechanical Interlock Test		
3.	Manual Push Button And Charging Of Spring Test		
4.	Operating Closing Test With 80% Of The Rated Voltage		
5.	Operating Opening Test With 120% Of The Rated Voltage		
6.	When Supply is Healthy, Select TNC To Open ACB ( ACB Will Close )		
7.	When Supply is Healthy, Select TNC To Open ACB ( ACB Will Open )		
8.	When OC/EF of ACB trips ( ACB Will Trip,ACB Will Not Able To Close On Any Condition )		
9.	When OC/EF Trips is Cleared, Select TNC Switch Of ACB To Close ( ACB Will Close )		

Others :

\_\_\_\_\_



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Comments : \_\_\_\_\_  
\_\_\_\_\_  
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## 10. FUNCTIONAL TEST ON BOOSTER PUMP CONTROL CIRCUIT

NO	TEST DESCRIPTION	SELECTOR SWITCH POSITION	INDICATION OF MOTOR								STARTER DESCRIPTION
			STOP		RUN		TRIP		HEATER		
1.	Auto Start	Auto									Booster
											Pump no.1
2.	Auto Stop	Auto									Booster
											Pump no.2
3.	MCC Manual Start	MCC									Booster
											Pump no.3
4.	MCC Manual Start	MCC									Booster
											Pump no.4
5.	Remote PB Manual Start	RPB									Booster
											Pump no.5
6.	Remote PB Manual Stop	RPB									Booster
											Pump no.6
7.	Auto/Off/MCC/RPB	Off									

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 10.1 FUNCTIONAL TEST ON AIR COMPRESSOR CONTROL CIRCUIT

NO	TEST DESCRIPTION	SELECTOR SWITCH POSITION	INDICATION OF MOTOR								STARTER DESCRIPTION
			STOP		RUN		TRIP		HEATER		
1.	Auto Start	Auto									Booster Pump no.1
2.	Auto Stop	Auto									Booster Pump no.2
3.	MCC Manual Start	MCC									Booster Pump no.3
4.	MCC Manual Start	MCC									Booster Pump no.4
5.	Remote PB Manual Start	RPB									Booster Pump no.5
6.	Remote PB Manual Stop	RPB									Booster Pump no.6
7.	Auto/Off/MCC/RPB	Off									

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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Comments : \_\_\_\_\_  
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**11. Motors Fault Simulation Tests**

NO	TEST	INDICATION OF MOTOR										Alarm Accept				
		STOP		RUN		TRIP		HEATER		Fault	Alarm	Manual		Auto		
	DESCPTION										Indicate	Sound				
1.	D.C.V. Failed To Open															
2.	D.C.V. Failed To Close															
3.	AC Control Supply Failed															
4.	Overcurrent / Earth Fault															
5.	Resistor Bank Temp. High															
6.	Starting Incomplete															
7.	Suction Pressure Low															
8.	Deliver Pressure High															
9.	Motor Winding Temp. High ( Alarm )															
10.	Motor Winding Temp. High ( Trip )															
11.	Pump Drive End Temp. High ( Alarm )															
12.	Pump Drive End Temp. High ( Trip )															
13.	Pump Non Drive End Temp. High ( Alarm )															
14.	Pump Non Drive End Temp. High ( Trip )															
15.	Excessive Vibration ( Alarm )															
16.	Excessive Vibration ( Trip )															

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





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**12. Valve Position Indicator and Motor Protection Relay Test.**

Valve Position Indicator Test.

Test Method : Inject mAmp signal by increasing and decreasing the value.  
Criteria : Indicator display will correspond to the injected signal.

Signal Injected	Calculated Position	Display Position				
		P1	P2	P3	P4	P5
4 mAmp	0 % Opened					
8 mAmp	25 % Opened					
12 mAmp	50 % Opened					
16 mAmp	75 % Opened					
20 mAmp	100 % Opened					

Motor Protection Relay Test.

Test Method : Shorting incoming terminal.  
Criteria : Motor Protection Relay will trips.

Shorting Terminal	Motor Protection Relay Trips									
	Pump 1		Pump 2		Pump 3		Pump 4		Pump 5	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Motor Overload										
Earth Fault										

Others : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**GENERAL REMARKS**

\_\_\_\_\_  
\_\_\_\_\_  
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Acknowledgment by Consultant.

I, \_\_\_\_\_ hereby acknowledge the testing and measurement of the  
above LV equipment performance test.

Signature :

Name :

Designation:

PE No :

Date :

Witnessed By : (SYABAS)

Signature : \_\_\_\_\_

Name : \_\_\_\_\_

Designation : Technician / Technical Supervisor M&E HQ

Date : \_\_\_\_\_

Witnessed By : (SYABAS)

Signature : \_\_\_\_\_

Name : \_\_\_\_\_

Designation : Technician / Technical Supervisor M&E HQ

Date : \_\_\_\_\_