CHECK LIST FOR: **UPS System Testing and Commissioning** **(Testing and Commissioning Report)**	Form No: Rev. No : 0
SUBCONTRACTOR [X] CONTRACTOR [ ]	Page : 1 of 4

SECTION OF WORK: Electrical	LOCATION:
LEVEL:	WIR No.:

A- Start Up & Commissioning

STAGE	ITEM	Checked by		Checked by	Date
		S/C	CONT	CONS.	
Start Up & Commissioning	1. Check the Approved shop drawings approval.				
	2. UPS room must be large enough.				
	3. UPS location should have a non-flammable floor.				
	4. UPS Location should be dry, clean and dust-free.				
	5. UPS Location should be with Air condition 20-25C. AC air circulation in the room should be sufficient to ensure a constant temperature to the UPS and to the batteries.				
	6. All Power & Network Cables are tested.				
	7. Installation of I/P & O/P Power Cables.				
	8. For netvision, Each UPS System IP to connect it to the Local Network. 'if Applicable'				

1. Testing

Functional test.
- UPS System is working without any alarms or any fault and the switches in correct position… and two units are working.

  'Normal Operation': Rectifier is charging the batteries and supplying the inverter which provides a pure sinusoid wave with stabilized O/P voltage& frequency.

  (Egymatec will calibrate the Units by checking the UPS setting & configuration using Expert software).

For S/C QA/QC: Date:	FOR CONTRACTOR QA/QC: Date:	For CONS. Rep.: Date:
Name: Sign:	Name: Sign:	Name: Sign:

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SECTION OF WORK: Electrical	**LOCATION:**
LEVEL:	**WIR No.:**

No load test (provide this test between 5 to 10min).
- Putting '0' Zero load.
- Take measurement.
- Fill format no. (1).

Load Test: Provide a load. 'customer Load'

A- System Load Test (_____% load) 'Provide this test between 10 to 15min'.
- Putting _____ Kwatt. 'by connect the load '.
- Take measurement.
- Fill format no. (1).

Format 1

Load Test:		Excepting Value	Reading
Load rating		Existing Load	
I/P Voltage: Ph-Ph		$400 \pm 15\%$ / $\pm 20\%$	
I/P Voltage:	L1	Depend on mains	
	L2	Depend on mains	
	L3	Depend on mains	
I/P Current:	I1	Depend on load	
	I2	Depend on load	
	I3	Depend on load	
I/P Frequency		45Hz – 65Hz	
I/P Power			
O/P Voltage:	L1	$400 V \pm 1\%$	
	L2	$400 V \pm 1\%$	
	L3	$400 V \pm 1\%$	
O/P Current:	I1	Depend on load	
	I2	Depend on load	
	I3	Depend on load	
O/P Frequency		$50 Hz \pm 0.1\%$	
O/P Power			
Comments:			
Approved/ Retest:			

For S/C QA/QC: Date:	FOR CONTRACTOR Date: QA/QC:	For CONS. Rep.: Date:
Name: Sign:	Name: Sign:	Name: Sign:

B- Battery discharge test.
- With same load and same position.
- Cut off the Input mains from UPS.
- Take measurement.
- Fill format no. (2).

Format 2

Battery Discharge test at   % load:

Measurement		0 min	10min	20min	30min	40min	50min	60min
Battery capacity:								
Active power output:								
O/P Voltage:	L1							
	L2							
	L3							
O/P Frequency:								
O/P current:	I1							
	I2							
	I3							
Temperature:								
		Comments:						

For S/C QA/QC: Date:	FOR CONTRACTOR Date: QA/QC:	For CONS. Rep.: Date:
Name: Sign:	Name: Sign:	Name: Sign:

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SECTION OF WORK: Electrical **LEVEL:**	**LOCATION:** **WIR No.:**	

C- Return to Normal Operation.
- Return the Input mains to UPS.

Transfer Test	Describe	OK/ Not OK
Automatic	Load transfer to bypass Circuit.	
Manual	Load transfer to Manual bypass.	
Normal	Load transfer from Manual bypass to Normal.	

E- Noise

Noise Level Test	Value	Measurement 'dBA'
- UPS with 100% load. Measure the noise level @ 1meter	**'1'**	
- UPS with 0% load. Measure the noise level @ 1meter	**'2'**	
UPS Noise level = '1' - '2' =	**'3'**	

For S/C QA/QC: Date:	FOR CONTRACTOR Date: QA/QC:	For CONS. Rep.: Date:
Name: Sign:	Name: Sign:	Name: Sign: