



# ADITYA ENTERPRISES

(AN ISO 9001:2008/CE CERTIFIED CO.)



- **STATIC RELAYS**
- **AUTO MAINS FAILURE (AMF) RELAYS**
- **MOTOR CONTROL RELAYS**
- **ALARM / ANNUNCIATION SYSTEM**
- **TRANSFORMERS**
- **BATTERY CHARGERS**

**CREATING NEW HORIZONS IN POWER PROTECTION AND CONTROL**



# Aditya Enterprises

## About Us :

Aditya Enterprises was established in 2008 with a vision to provide high quality products & services to the customers. It has also the ambition to provide healthy atmosphere to work & grow its employees with its own growth. Company has team of about 40 people & total working space is more than 3000 sq. ft.

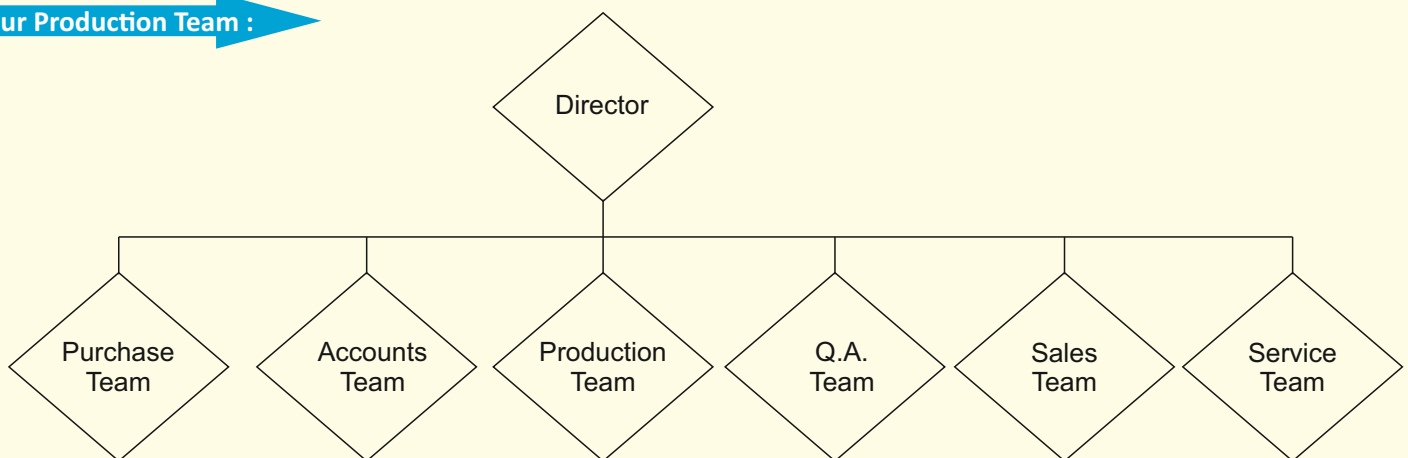
## Our Team :

In Aditya we have a high qualified ( B. Tech & Diploma ) team of Engineers with more than 15 years of experience in industry in designing high quality & sophisticated products. Our production team has technicians with more than 10 years of experience in assembling & testing electronic equipments.

## Our Quality Policy :

Aditya Enterprises is committed to provide best quality products & services to its customers as per agreed terms & conditions. In order to achieve this , we are continually improving processes, products and services meeting & exceeding customer satisfaction at all times. To achieve our quality policy commitment we have appointed two quality engineers to check the products technically & visually. Products are tested under different atmospheric conditions like high temp, under heavy vibrating base etc. Aditya Enterprises possess the ISO 9000:2015 and CE certificates.

## Our Production Team :



## Products & Services :

Aditya Enterprises is involved in manufacturing high quality products widely used in Automation, Power Protection and Control. Some of them are mentioned below :

- 1.Voltage Monitoring Relays.
- 2.Current Monitoring Relays.
- 3.Reverse Power Protection Relays.
- 4.Phase Sequence Correction Relays.
- 5.Single Phasing & Reverse Phasing Protection Relays.
- 6.Annunciation Systems.
- 7.Battery Chargers.
- 8.Power Packs and many more.



# Alarm Annunciators

Aditya Microprocessor Based Alarm Annunciators are designed to keep an alert & watchful eye on your plant & processes. The entire range has been designed with an insight into the modern day manufacturing plant & its future requirements. Aditya Alarm Annunciators are equipped with microprocessor-based design, super bright LED windows,














Dynamic, Alert & Responsive...These unique advantages have helped the Aditya Annunciators an icon in the power T & D industry & engineering establishments in India. The world class Aditya Annunciators has made its presence felt in Overseas markets.

### Features :

- Powerful Microprocessor Based circuit.
- Special SMPS power supply.
- Sleek, modern, aesthetic design

### Ordering Information

- Model Name
- No. of windows
- Aux. Supply
- Operation Sequence
- Optional Features Required

Panel Cutout: 69x139 mm Overall Size 72x144x140 mm  AE: 906 M	Panel Cutout: 69x139 mm Overall Size 72x144x140 mm  AE: 902 M	Panel Cutout: 69x139 mm Overall Size 72x144x140 mm  AE: 904 M	Panel Cutout: 139x139 mm Overall Size 144x144x140 mm  AE: 936 M
Panel Cutout: 139x139 mm Overall Size 144x144x140 mm  AE: 932 M	Panel Cutout: 139x139 mm Overall Size 144x144x140 mm  AE: 930 M	Panel Cutout: 139x139 mm Overall Size 144x144x140 mm  AE: 938 M	Panel Cutout: 92x189 mm Overall Size 96x192x140 mm  AE: 934
Panel Cutout: 189x92 mm Overall Size 192x96x140 mm  AE: 931 A	Panel Cutout: 189x92 mm Overall Size 192x96x140 mm  AE: 931	Panel Cutout: 189x92 mm Overall Size 192x96x140 mm  AE: 932	Panel Cutout: 92x92 mm Overall Size 96x96x144 mm  AE: 930
Panel Cutout: 92x92 mm Overall Size 96x96x144 mm  AE: 933			

PARAMETERS	
Supply Voltage	12 / 24 / 48 / 110 / 220 V DC 110 / 240 V AC +10% -15% 24 V AC, 90 - 270 V AC / DC
Windows	4 / 6 / 8 / 12 / 16
Display Device	Super bright high efficiency low power consuming LED's
Window/LED Colour	Standard colour available RED,
Flash Rate	Fast - 60 flashes
Response Time	25 msec. ± 10 msec.
Output Contacts	2C/O, 1 NO for hooter
Contact Rating	5 Amps 240 V AC (Resistive)
Operational Temp.	0-60 degrees C
Power Consumption	0.5 Watts per Window
Optional	Grouping / AC-DC fail Annunciation / Repeat Relay contacts

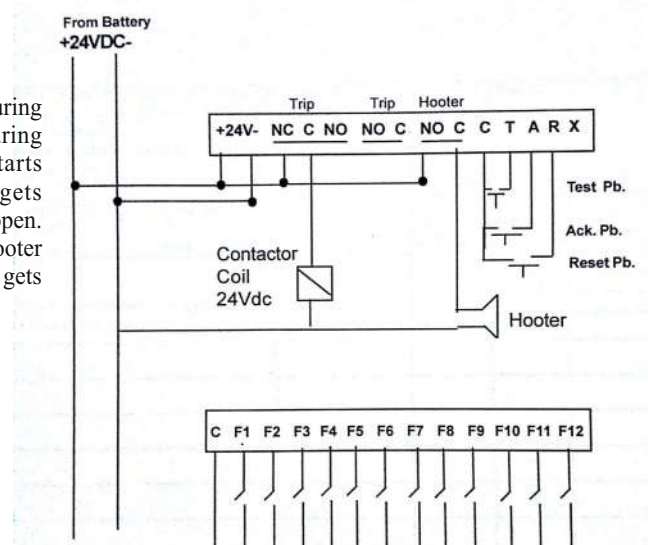
### Annunciation windows (12 Windows)

#### Principal of operation :

Aditya Annunciators are designed to work in robust condition like during system vibrations, high ambient temperatures, dusty atmosphere. During operation if any of the fault occurs the corresponding window starts flashing, internal buzzer starts sounding, external hooter C-NO gets closed & Trip contacts get energised i.e C-NOs get closed & C-NC get open. On pressing Ack, the light stops flashing & become steady, internal hooter switches OFF. After removing fault if RESET is pressed then the system gets reset condition i.e normal condition.

#### Technical Specifications :

1. Supply Voltage : 24 Vdc±4V
2. No. of input Faults : 12 (Faults should be potential free)
3. Output Contact rating : 5A@230Vac.
4. Flashing Duty cycle : 1-1.2 sec.
5. Power consumption on stand by : 3VA max.
6. Power consumption on faults : 12VA max.
7. Insulation between output contacts & internal circuit : > 1 Mohm.
8. Size cutout : 139mm \* 139mm
9. Physical size of the unit : 144mm(H)\* 144mm(V)\* 160mm(D)

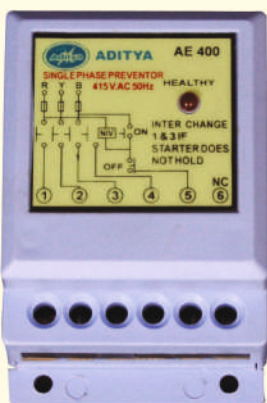
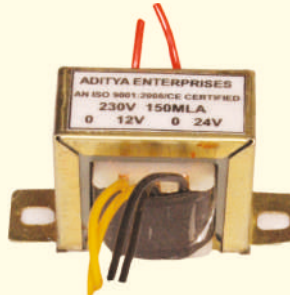
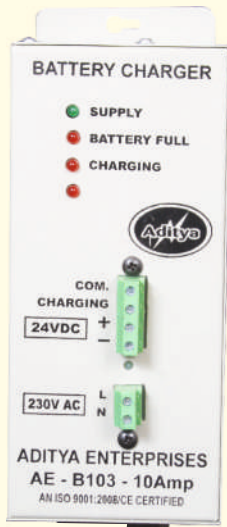


General wiring diagram for Annunciator 12 Windows



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## CREATING NEW HORIZONS IN POWER PROTECTION AND CONTROL



**VOLTAGE MONITOR RELAY  
ALTERNATOR VOLTAGE  
OVER VOLTAGE RELAY**

**Single phase**

VMR	160	-260V	AE 200
AVR	160	-260V	AE 202
OVR	220	-300V	AE 201

**Three Phase**

VMR	300	-400V	AE 210
AVR	300	-400V	AE 212
OVR	400	-500V	AE 211

Aditya Voltage relays are used in protection of gensets, motors, pumps, transformers, shunt caps etc from damage due to transient blackouts, brownouts & for auto start stop of AMF panels. A low or high in all or any phase generates a changeover signal. Two potential free c/o contacts are given for breaker tripping - Relay is auto reset Both under & over & voltage are settable. Time is fixed at 3-5 sec Hysteresis of 5-15V for transient Protection is provided

Size : 70 x 60 x 110 mm



**UNDER+OVER VOLTAGE  
RELAY**

**Single phase**

UOVR	UV 160	-220V	AE 230
	OV 230	-300V	

**Three Phase**

UOVR	UV 300	-400V	AE 240
	OV 420	-500V	

Aditya Voltage relays are used in protection of gensets motors, pump, transformers, shunt caps etc from damage due to transient blackouts, brownouts 7 for auto start stop of AMF panels A low or high in all or any phase generates a changeover signal. Two potential free c/o contacts are given for breaker tripping - Relay is auto reset Both under & over & voltage are settable. Time is fixed at 3-5 sec Hysteresis of 5-15V for transient Protection is provided

Size : 70 x 60 x 110 mm



**ENGINE STARTING RELAY**

DC 12V /24V AE 150

Aditya Engine starting relays are used for automatic starting of Diesel / petrol engines or Gensets and fire engines. Relay is a three attempt cranking relay for engine starting with auto cut after 3 attempts. On time and off time duration's are settable from 0-30 seconds. Two changeover contacts are given - for cranking the engine and for lockout in case the engine fails to start in three attempts. The relay locks out after 3 attempts.

Size : 70 x 60 x 110 mm



**TIMERS AC - DC**

AC 230V AE 100  
DC 12 or 24VDC

ON delay AE 100 Initially off, after set time timer on - contacts change

Off delay AE 130 Initially on, after set time timer turns off- contacts change.

Stop timer AE 130 Initially on, after set time off. For pulling stop solenoid of engine for 5-30sec.

Signal of Delay AE 132 Same as Off delay except timer starts only when external signal given

Time delay is as per order which are

- \* 1-10 sec\* 10 - 100 sec
- \* 6-60 sec\* 0.3-3 min
- \* 1-10 min

All contacts are 5A potential free. Any of these timer can be specified at order.

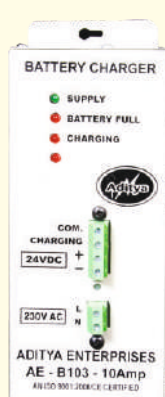
Size : 70 x 60 x 110 mm



Size : 13 x 6.75 x 9.5 Inch



Size : 12 x 5.5 x 8 Inch



Size : 9.25 x 3.5 x 5.5 Inch



Size : 9.25 x 3 x 5.5 Inch

**Battery Chargers**

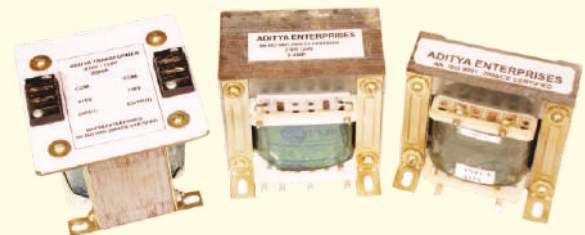
Aditya Battery chargers are designed to bear voltage variations, fluctuations & have low voltage regulation.

**Operation :** When the battery is connected & then provide input voltage 230Vac. It starts charging the battery.

**While Charging :**

**Supply Indication :** ON, Charging Indication : ON Whenever the battery gets fully charged along with supply indication & charging indication battery full indication also glows. Again when the battery voltage goes below its rated voltage the battery full indicator switches off and battery starts charging.

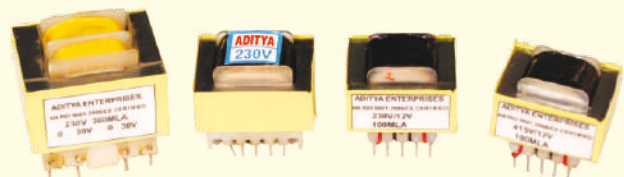
**Battery Chargers :** 12Vdc/6A, 12Vdc/10A  
24Vdc/8A, 24Vdc/10A, 24Vdc/16A, 24Vdc/20A, 24Vdc/25A



**Aditya Transformers**

Aditya transformers are guaranteed for its best quality core and original & pure copper winding.

**Specs :** as per customer requirement.



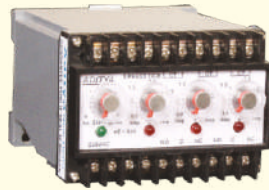


**OVER CURRENT RELAY  
EARTH FAULT RELAY  
EARTH LEAKAGE RELAY**

Over Current 0.5-5A AE 510  
Earth Fault 0.2-2A AE 520  
Earth Leakage 50-500mA AE 560

Aditya Current Single element Over current/ Earth Fault / Earth leakage relays are ideal for sensing current faults in any one phase or earth for protection of AC machines, Transformers, Generators etc. The resultant current measured is digitally compared to a settable reference. In case of trip condition trip contacts changeover after a settable time of 1 - 10 sec. This can be used to trip the breaker. Time must be set according to system requirement. Two changeover contacts are available.

Size : 70 x 60 x 110 mm



**3 Element over current AE530  
3 Element 2OC / 1EF AE531**

Earth Fault 0.2 - 2A  
Over Current 0.5-5A

AE 530 series or Over current relays are ideal for sensing over current faults in any or all phases for protection of AC machines, Transformers, Generators etc. The relay monitors the current passing in any feeder secondary. The resultant current is digitally compared. Each phase has its independent setting. Timer starts on trip condition and is common for all three phases - a changeover occurs. Time must be set according. Two sets of changeover contacts are available - common for all.

Size : 70 x 100 x 110 mm



**REVERSE POWER RELAY  
AE 800**

SENSING  
Reverse Power - 6 - 10%

AE 800 series RPR relay monitors the power flowing in the phases. The direction of the power is checked. The relay monitors current flowing in the B phase. This Current is squared with the voltage in RY phase and motoring condition detected. Power sensed is compared to a reference and a timer is triggered above limit. Timer can be set 0-10 sec. Contacts changeover occurs on timeout and an led indication signals closure.

Size : 70 x 60 x 110 mm



**FREQUENCY RELAY AE700  
SPEED RELAY AE**

Over Frequency 50 - 55 Hz  
Over Speed 1500 - 1650 rpm

AE 700 series frequency relays are used for protection of sensitive equipment due to under or ment is being supplied from a source whose frequency may be erratic. Can be used for tripping in case frequency goes above limit. A lower or higher than limit condition if persisting for more than 1 or 2 sec a contact changeover occurs and an led on facia glows to indicate a trip condition. This can be used to trip the breaker / supply. Two sets of changeover contacts are available. The relay is auto reset type.

Size : 70 x 60 x 110 mm

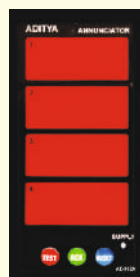
Size : 96 x 96 mm



**ANNUNCIATOR 4F**

Aditya Annunciator 4 fault annunciators are digital units with front end it by led's. Applications are in monitoring fault conditions in any process, equipments etc A potential free fault condition triggers a buzzer, trip contact and a contact for hooter if external hooter is desired. Also the corresponding window flashes, two changeover contacts trip to signal fault condition. When the acknowledge pushbutton is pressed the flashing becomes steady, the buzzer stops and the hooter contact is released. Test checks all the windows.

Size : 96 x 96 x 140 mm  
Cutout Size 92 x 92 mm



Size : 144 x 72 mm  
Cutout Size 138 x 68 mm

**AE 930**



**ANNUNCIATOR 8F  
ANNUNCIATOR 10F**

Aditya Annunciator 8 / 10 fault annunciators are digital units with front end lit by led's. Applications are in monitoring fault conditions in any process, equipments etc A potential free fault condition triggers a buzzer, trip contact and a contact for hooter if external hooter is desired. Also the corresponding window flashes, two changeover contacts trip to signal trip indication and an internal buzzer beeps to signal fault condition. When the acknowledge pushbutton is pressed the flashing becomes steady the buzzer stops and the hooter contact is released. Test checks all the windows.

Size : 144 x 144 mm  
Cutout Size 138 x 138 mm



**AE931  
Ae932**


**CYCLIC TIMERS AC AE 140  
STAR DELTA TIMER AE 136**
**Cyclic Timer**

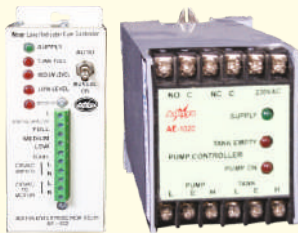
ON 0.2 - 2 hrs  
 OFF Time 0.2 - 2 hrs  
 Time can be provided as per Requirement

**STAR DELTA**

Star time 6 - 60 sec

Cyclic timers are used in cyclic operation of two motors where alternate pumping is required. Time can be ordered as per requirement. Standard times are 0.2 - 2 hrs Separate changeover contacts for ON and OFF times - Star Delta timers are used for starting star delta motors. At power on star connection is made for selectable time after which delta connection is made.

Size : 70 x 60 x 110 mm


**PUMP CONTROLLER**

Single Tank AE 1010  
 Double tank AE 1020

Single tank pump controller is used to monitor the overflow and / or prevent overflow as well as switch on pump when tank empty. Useful for single tank operation of underground or overhead tank. Double tank pump controller is used to switch on pump when overhead tank is empty and shut of pump when overhead tank is full. Dry run protection against underground tank is also provided.

Size : 70 x 60 x 110 mm


**PHASE SEQUENCE CORRECTOR RELAY AE 1100**

Used for protection of motors, pumps, transformers, etc from damage due to missing phases or negative phase sequences. A wrong sequences is corrected and two output contacts are provided which can be used to switch on the power contactors. Only the correct sequence contactor signal will be on at a time. However contactors must be interlocked during power wiring. The relay resets automatically and remains off when voltage is low, zero unbalanced or negative phase sequence. Manual reset can be provided.

Size : 70 x 100 x 110 mm


**SINGLE PHASE PREVENTOR**

AE 400

Single phase preventor is used for protection and burnouts of pumps and motors against phase unbalance, missing and negative phase sequence. All the phases are continuously checked. A fault trip condition trips the relay - changeover contacts are energized. The relay resets automatically and remains off when voltage is low zero, unbalanced or negative phase sequence. Manual reset can be provided.

Size : 70 x 45 x 110 mm

**AMF RELAYS**

- TIMERS
- ENGINE START RELAYS
- VOLTAGE RELAYS
- 1 PH CURRENT RELAYS
- 3 PH CURRENT RELAYS
- FREQUENCY RELAYS
- SPEED RELAYS
- ANNUNCIATION UNITS
- CUSTOMISED RELAYS

**Applications :**

Auto start, stop and protection of amf panels and generating sets during power failure. Annunciation units can provide visual indication for generator faults and healthy conditions. We can also make custom relays and custom design for amf panels.

**STATIC RELAYS**

- TIMERS
- VOLTAGE RELAYS
- INSTANTANEOUS OVERCURRENT
- 1 PH CURRENT RELAYS
- 3 PH CURRENT RELAYS
- FREQUENCY RELAYS
- EARTH FAULT RELAYS
- CUSTOMISED RELAYS

**Applications :**

Protection of sensitive equipment's both on the source side and load side. These relays are extremely sensitive and very accurately calibrated.

We can also make customized relays.

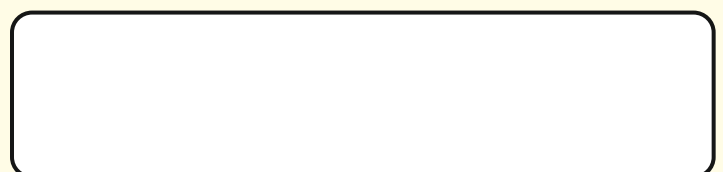
**MCC PANEL RELAYS  
MOTOR PROTECTION RELAYS**

- TIMERS
- STAR DELTA TIMER
- CYCLIC TIMER
- PHASE SEQUENCE CORRECTOR
- SINGLE PHASE PREVENTOR
- PUMP / WATER LEVEL CONTROLLERS

**Applications :**

Motor control protection, Pump protection.

Authorised Dealer



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Department of Trade and Taxes  
Government of NCT of Delhi

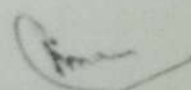
Form DVAT 06  
[See Rule 14]

Certificate of Registration under Delhi Value Added Tax Act, 2004

Date: 30-09-2013

1. Full Name of Dealer ADITYA ENTERPRISES
2. Registration No. 07750456493
3. Date of Validity 30-11-2012
4. Address of principal place of Business RZ-445 GALI NO-15 TUGLAKABAD EXTN NEW DELHI-19, TUGHLAKABAD EXTN., 110019
5. Signature and Seal of VAT Authority



  
Full Name : PRAKASH CHAND MEENA

Designation/Status : VATO

Place: Delhi

Date: 30-09-2013





# Certificate of Compliance

We hereby declare that the technical file of product complied with the requirement of directives 2014/35/EU Low Voltage Directive & 2004/108/EC Electro Magnetic Directive

## Manufacturer

Name : ADITYA ENTERPRISES  
Address : RZ-445/15, Tughlakabad Extn., New Delhi-110019 (India)  
Product : CTS, Battery Chargers & Stabilizers, Emergency Light, Timers, Battery Chargers, Pump Controllers & Indicators, Current Sensing Relays, Voltage Sensing Relays, Electronic Hooters, Annunciation Windows, Transformers, Starter Panels, Phase Sequence Corrector Panels and Current Transformers

The Certification body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been assessed, approved and is subject to continuous surveillance according to Directive 2014/35/EU Low Voltage Directive & 2004/108/EC Electro Magnetic Directive

### This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type-examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results or surveillance audits.
4. After fulfilling the relevant EU legislation, the manufacturer shall affix to each device, of the referenced models.
5. The CE mark as shown above can be used; under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production

Date of registration	11 <sup>th</sup> January 2016
Date of this Certification	10 <sup>th</sup> January 2018
Certificate Expiry	10 <sup>th</sup> January 2019
Recertification due (subject to the company maintaining its system to the required standard)	10 <sup>th</sup> January 2019

Certificate No.: 1460

Validity of this certificate can be verified at [www.otabucert.co.uk](http://www.otabucert.co.uk)



Authorised Signatory

**Otabu Certification Limited (UK)**

**Validity of this Certificate is subject to Annual Surveillance audits done successfully**

This Certificate of Registration remains the Property of Otabu Certification Limited and shall be returned immediately upon request.

Email:- [info@otabucert.co.uk](mailto:info@otabucert.co.uk) Website:- [www.otabucert.co.uk](http://www.otabucert.co.uk)

**Suite 48, 88-90 Hatton Garden, London, EC1N 8PN, UK**

# Certificate of Registration

This is to certify that the  
Quality Management System  
of

**ADITYA ENTERPRISES**

at

RZ-445/15, TUGHLAKABAD EXTN., NEW DELHI-110019  
(INDIA)

has been independently assessed and is  
compliant with the requirements of:

**ISO 9001:2015**

**Quality Management System**

For the following scope of activities:

**MANUFACTURERS OF ALL TYPE OF TRANSFORMER, P.C.B., CTS, BATTERY,  
CHARGER, AMF PANEL RELAYS**

**Certificate Number: UQ-25124**

Validity of this certificate can be verified at [www.ukaccreditation.co.uk](http://www.ukaccreditation.co.uk)

Date of Certification

12<sup>th</sup> June 2017

1<sup>st</sup> Surveillance Audit Due

11<sup>th</sup> June 2018

2<sup>nd</sup> Surveillance Audit Due

11<sup>th</sup> June 2019

Certificate Expiry (subject to the company maintaining its  
system to the required standard)

11<sup>th</sup> June 2020

*Daniel..*  
Authorised Signatory



Validity of this Certification is successful Annual Surveillance audits to be done.  
This certificate is the property of UK Accreditation Limited and shall be returned immediately on request.  
9 Mercury Park, HP 10, OHH Saint Mary Church London UK  
Website:- [www.ukaccreditation.co.uk](http://www.ukaccreditation.co.uk)


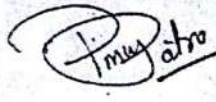

# TRISQUARE SWITCHGEARS PVT. LTD.

EXTERNAL PROVIDER EVALUATION RECORD

TSPL/L/PUR/01  
DATE OF ISSUE : 16.10.2017  
REV. : 00

G.S.T. No.: 07AFWPY7445Q1ZX

Date: 06/01/2018

EXTERNAL PROVIDER Data:	Name of the Party	Items Supplied	Any other info	
	M/S. ADITYA ENTERPRISES	POWER PACK	230VAC/24VDC, 7AH	
		UNDER/OVER VOLTAGE RELAY	415V	
Assessment Period:	2 YEAR			
Total No. of Supplies Made	No. of Supplies Rejected	Reason(s) of Rejection	No. of Supplies Accepted with warning	Reason(s) of Warning/ Acceptance :
01 NOS.	NILL	NILL	-----	QUALITY OK
01 NOS.	NILL	NILL	-----	QUALITY OK
Overall Weight age (out of 20)				
Product Quality (10)		Delivery (10)		Average Total (20)
01		-----		10
Scale for Evaluation: A => 70.00% B = 50 - 69% C = < 50%	Assessment/Analysis  Grade- A	Sig. of Assessor  Mr. Amit Agnihotri 	Reviewed By Q.C Head  Mr. Manoj Patro 	
Remarks of Assessor:				

# TRISQUARE SWITCHGEARS PVT. LTD.

EXTERNAL PROVIDER EVALUATION RECORD


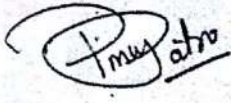

TSPL/L/PUR/01

DATE OF ISSUE : 16.10.2017

REV. : 00

G.S.T. No.: 07AFWPY7445Q1ZX

Date: 06/01/2018

EXTERNAL PROVIDER Data:	Name of the Party	Items Supplied	Any other info	
	M/S. ADITYA ENTERPRISES	HOOTER	12V/24VDC	
		HOOTER	110VAC/230VAC,DC	
		ANNUNCIATOR	24VDC (12WINDOW)	
Assessment Period:	2 YEAR			
Total No. of Supplies Made	No. of Supplies Rejected	Reason(s) of Rejection	No. of Supplies Accepted with warning	Reason(s) of Warning/ Acceptance :
01 NOS.	NILL	NILL	-----	QUALITY OK
01 NOS.	NILL	NILL	-----	QUALITY OK
01 NOS.	NILL	NILL	-----	QUALITY OK
Overall Weight age (out of 20)				
Product Quality (10)		Delivery (10)		Average Total (20)
01		-----		10
Scale for Evaluation: A => 70.00% B = 50 – 69% C = < 50%	Assessment/Analysis  Grade- A	Sig. of Assessor  Mr. Amit Agnihotri 	Reviewed By Q.C Head  Mr. Manoj Patro 	
Remarks of Assessor:				



# ASIATIC ELECTRICAL & SWITCHGEAR PVT. LTD.

Registered Office: A 58, Naraina Industrial Area, Phase-1, New Delhi-110028, India • Tel.: +91-11-25794620, 25796617 • Fax: +91-11-45082346  
 E-mail: asiatic@asiatic-india.com • Website: www.asiatic-india.com • CIN: U31108DL2006PTC152517

Asiatic Electrical & Switchgear Pvt. Ltd.					
SWITCHGEAR PRODUCTION DIVISION					
GUARANTEED TECHNICAL PARTICULARS FOR C&R PANEL					
CUSTOMER : DDUGJY/IPDS, VARANASI (UTTAR PRADESH)					
33 kV C & R Single T/F without Diff. Relay					
S.NO	DESCRIPTION	MAKE	TYPE	RATING	TOTAL
<b>PROTECTION RELAYS &amp; ACCESSORIES</b>					
1	3 O/C +1 EARTH/FAULT RELAY, 24V DC	ASHIDA/C&S/VS/REPUTED	--	24V DC, CTR/SA	1
2	MASTER TRIP RELAY	ASHIDA/C&S/VS/REPUTED	--	24V DC	1
3	AUX. RELAY FOR TRF. FAULT, 3ELEMENTS	ASHIDA/C&S/VS/REPUTED	--	24V DC	3
4	AC SUPERVISION PLA RELAY	PLA/OMRON/REPUTED	--	240V AC	2
5	DC SUPERVISION PLA RELAY	PLA/OMRON/REPUTED	--	24V DC	2
6	PLA RELAY WITH BASE 1C/O 24VDC	PLA/OMRON/REPUTED	--	24V DC	5
<b>INDICATING METERS</b>					
7	DIGITAL AMMETER 96 Sq mm WITH ASS	RISHABH/SECURE/PROCOM	--	CTR / SA, CL-1	1
8	DIGITAL VOLT METER 96 Sq mm WITH VSS	RISHABH/SECURE/PROCOM	--	CTR / SA, CL-1	1
9	LED TYPE INDICATING LIGHTS				
I	RED	ESBEE- L&T/REPUTED	--	63.5V AC	1
II	YELLOW	"	--	"	1
III	BLUE	"	--	"	1
10	LED TYPE INDICATING LIGHTS				
I	RED	ESBEE- L&T/REPUTED	--	230V AC	1
I	RED	ESBEE- L&T/REPUTED	--	24V DL	2
II	GREEN	"	--	"	1
III	AMBER	"	--	"	1
IV	BLUE	"	--	"	1
V	YELLOW	"	--	"	1
11	PUSH BUTTON, 22.5MM DIA				
I	RED	ESBEE- L&T/REPUTED	--	230V AC	1
I	GREEN	ESBEE- L&T/REPUTED	--	230V AC	1
I	WHITE	ESBEE- L&T/REPUTED	--	230V AC	1
<b>CONTROL MCB</b>					
12	MCB	L&T/ABB/C&S/REPUTED	SP, 10KA	6A	5
13	MCB	L&T/ABB/C&S/REPUTED	DP, 10KA	6A	4
<b>MISCELLANEOUS</b>					
14	ANNUNCIATOR WITH PUSH BUTTON	JVS/ADITYA/REPUTED	12 WINDOW	24V DC	1
15	TEST TERMINAL BLOCK	DEEPL/REPUTED	--	--	1
16	BREAKER CONTROL SWITCH	SALZER/KAYCEE/TEKMEC	TNC	25A 1NO+NC	1
17	SELECTOR SWITCH	SALZER/KAYCEE/TEKMEC	--	2P 2W with OFF	1
18	EMERGENCY PUSH BUTTON	ESBEE- L&T/VAISIINO	22.5mm OD	1NO+1NC	1
19	HOOTER, 96SQ. MM.	JVS/MAHAMADITYA/REPUTED	--	24V DC	2
20	SPACE HEATER	TELELEC/REPUTED	STRIPS	80WATT, 230V AC	1
21	THERMOSTAT	KAYCEE/RECOM/REPUTED	1 C/O	0-80DEG. 230V AC	1
22	SINGLE PHASE THREE PIN PLUG & SOCKET	ANCHOR/REPUTED	--	15A, 240V AC	1
23	DOOR LIMIT SWITCH FOR CUBICAL LAMP	KAYCEE/REPUTED	--	--	1
24	NEUTRAL LINK	AK/REPUTED	--	32A	2
25	SEMAPHORE	DAV/REPUTED	--	24V DC	1
26	MIMIC DIAGRAM	REPUTED	--	--	1
27	BULB WITH HOLDER FOR PANEL ILLUMINATION.	PHILIPS/CG/BAJAJ	18W	240V AC	1
28	TOGGLE SWITCH FOR HEATER	KAYCEE/TEKMEC/SALZER	10A	240V AC	1

**NOTE-**

- We are Considering 6 Numbers of 3- Element Auxiliary Relay & 4 nos. pla relay instead of 12 Numbers of 2- Element Auxiliary Relay for Double Transformer Feeder
- We are considering 1 No three phase Digital Type ammeter inbuilt Selector Switch instead of 3 Nos Ammeter
- We are considering 1 No Heavy duty Pla relay for AC Supervision and 1 No heavy duty Pla relay for DC Supervision instead of AC/DC supervision relay
- We are considering TCS supervision as inbuilt feature of Main Relay. No separate trip circuit supervision relay is considered
- As per TS control cables from breaker to CRP shall be provided by ASIATIC Scope of Supply. ASIATIC shall provide only provision for the same

Notwithstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the specification/type test report/GTP shall be that of the contractor which is to be checked during inspection.

