

# ALMS

## AGRICULTURAL LOAD MANAGEMENT SYSTEM



**Agricultural Load Management System is meant for supplying power to farmers during specified time with assured time duration.**

### **Core benefits to Utilities**

- Reduces the stress on LT lines, distribution transformers, sub-stn and system in view of diversified usage
- Lesser failures of distribution transformers due to diversified load and lesser interruptions
- Reduces the system peak demand
- Results in substantial reduction on technical losses
- Parallel supply is maintained for other users while keeping supply for agricultural loads on
- Laying of exclusive feeders to agricultural loads involving huge funds is avoided
- Greater satisfaction for customers due to reduced interruptions, better voltage conditions coupled with lesser transformer failures
- Payback period/return of investment is less than 3 months



An ISO 9001:2008 Company

*Empowering Energy Sector*



## Functional specifications:

- Automatically controls supply for agricultural pump sets as per distribution company policy
- Maximum duration of power to be given in a day, say for seven (7) hours, can be preset. The "start time" and the "total duration" for which power can be availed in a day are programmable
- Use of power during peak hours in the day: 18 Hrs to 22 Hrs may be disallowed – peak hours may have two slots as well
- Input power to ALMS - 3 Phase, 3 / 4 Wires, 400V
- Product suitable upto 15 HP motors
- Facility to download day wise log on usage of load with time intervals - spells for 35 days

## How the ALMS works :

- Consumer has the freedom to use power and operate pump set whenever he wants except during the peak hours
- Once consumption of power exceeds pre-set time duration, supply gets disconnected automatically for that day and gets resumed on next day
- The facility to carry forward the balance unavailed time to next day may be configured as per defined parameters
- Pump set ON/OFF is sensed using CTs in all the phases. If the connected load is more than one ampere, it will be treated as the pump set ON. Current settings are programmable. In case load connected is less than one ampere, usage time is not counted as usage period which allows the consumer to use phase indicating lamps ,etc.

## Advantages to agricultural consumers :

- Supply can be availed at times convenient to the consumers
- Every consumer is assured of guaranteed hours of supply all the days
- Better voltage, minimizes motor failures, less interruptions and outages
- Dispenses with auto starters and avoids wastage of precious underground water
- Use of this product doesn't interfere lighting supply that continues throughout the day

**NOTE :** ALMS can be designed to suit any specific customer requirement.

### Corporate Office:

#### ICSA (INDIA) LIMITED

Plot #12, 1St Floor,  
Software Units Layout  
Cyberabad, Hyderabad -500 081  
Andhrapradesh, India.  
Ph: 91-40-23115619/23114923  
Fax: 91-40-23114921  
E-mail: [info@icsa-india.com](mailto:info@icsa-india.com)  
Website: [www.icsa-india.com](http://www.icsa-india.com)

### International Operations:

#### ICSA INTERNATIONAL PTE LTD

133 Cecil Street,  
#17-01, Keck Seng Tower,  
Singapore-069538.  
Phone: 65-63274092  
Fax: 65-63274093  
E-mail: [info@icsa-international.com](mailto:info@icsa-international.com)  
Website: [www.icsa-international.com](http://www.icsa-international.com)

