

APPLICATION CASE STUDY



DOC.NO. : AMTCS-19

CONDUCTED AT M/s. CIBA-CKD BIOCHEM LTD., MAHAD

APPLICATION : **BULK DRUG FERMENTATION**

INDUSTRY : **PHARMACEUTICAL**

OLD SYSTEM : DC MOTOR AND DC DRIVE
(INTENDED)

NEW SYSTEM : SQUIRREL CAGE INDUCTION MOTOR & AXPART VARIABLE SPEED DRIVE.

PROCESS DESCRIPTION :

The 315 KW motor drives the impeller of a fermentor. The entire process of fermentation is carried out in different stages each of which requires a different speed.

The total process time is typically 240 hours (10 days).

ADVANTAGES OF NEW SYSTEMS :

1. Maintenance free operations since standard induction motor is used.(Problems associated with DC motor s viz. replacement of brushes, and commutator arcing are not present)
2. Better power factor over entire speed range.
3. Reduced starting current.
4. Various parameter monitoring.

2171 West Park Court, Suite # G Stone Mountain, GA. 30087

Phone: 770-469-5240 Fax: 678-894-4043

E-Mail : info@amtechdrives.com Website: www.amtechdrives.com