

AIRCOSAVER TEST ON AIR CONDITIONER

DATE: 31/07/2012 NO OF AC: 1
CLIENT: TATA TEL SERVICES LIMITED SELOO SITE
ADDRESS: BLOCK NO 222, 2ND FLR, VISHNU VAIBHAV BLDG, PALM RD, CIVIL LINES
NAGPUR
CONTACT: PRASHANT DESIG: _____ MOBILE: 9225625161
MAKE: VOLTAS-SENSICOOL SR NO. _____ CAP: 2.0 TON
TYPE: Window / Split / Tower / Casette / Ductable COMPRESSOR: Reciprocating/ Rotary / Scroll

| WITHOUT AIRCO SAVER | | | | | |
|---------------------|----------|-------------|-------|---------|------|
| | DATE | TIME IN HRS | UNITS | RUN HRS | TEMP |
| STOP | 30.07.12 | 1:30 | 3.52 | 1:30 | 22°C |
| START | 30.07.12 | 0:00 | | 0:00 | 22°C |
| TOTAL | | | 3.52 | 1.3 | |

| WITH AIRCO SAVER | | | | | |
|------------------|----------|-------------|-------|---------|------|
| | DATE | TIME IN HRS | UNITS | RUN HRS | TEMP |
| STOP | 30.07.12 | 1:30 | 2.68 | 1:30 | 22°C |
| START | 30.07.12 | 0:00 | | 0:00 | 22°C |
| TOTAL | | | 2.68 | 1.3 | |

Temperature taken from <http://www.accuweather.com/en/in/nagpur/204844/july-weather/204844?monyr=7/1/2012>
Outside Temperature of the Day 27°C Outside Temperature of the Day 27°C
Point-to-Point Room Temp 27.8/27.1°C Point-to-Point Room Temp 25.9/26.6°C
UNIT CONSUMED WITHOUT AIRCO SAVER PER HR: 2.71 UNIT CONSUMED WITH AIRCO SAVER PER HR: 2.06

SAVING IN % = $\frac{\text{Units Saved} \times 100}{\text{Consumption without Auro saver}}$ **23.86%**

PAYBACK CALCULATION:

RATE OF POWER RS. 9 KWh RUN TIME OF AIRCONDITIONER : 24 Hrs/Day
BILL WITHOUT AIRCO SAVER Rs. 584.86 BILL WITH AIRCO SAVER Rs. 445.29
TOTAL SAVING WITH AIRCO SAVER PER DAY Rs. 139.57
PAYBACK PERIOD = $\frac{\text{COST OF AIRCO SAVER}}{\text{Rs. SAVED PER DAY}}$ $\frac{7500}{139.57}$ 54 DAYS
PAYBACK PERIOD = $\frac{\text{COST OF AIRCO SAVER}}{\text{Rs. SAVED PER DAY}}$ $\frac{5646}{139.57}$ 40 DAYS
(With 80% Depreciation)

SAVING & ROI CALCULATION IN 5 YEARS

NUMBER OF HRS IN 5 YRS (HRS/DAY X 365 DAYS) = 8760 HRS/YRS
(Average Unit Rate increased 15% every year)

| YEARS | 1st YRS | 2nd YRS | 3rd YRS | 4th YRS | 5th YRS | TOTAL |
|---------------------|---------|---------|---------|---------|---------|---------|
| PER UNIT RATE | 9.00 | 10.35 | 11.90 | 13.69 | 15.741 | |
| WITHOUT AIRCO SAVER | 213474 | 245496 | 282320 | 324668 | 373368 | 1439326 |
| WITH AIRCO SAVER | 162532 | 186911 | 214948 | 247190 | 284269 | 1095851 |

NET SAVING

343476

RETURN ON INVESTMENT IN 5 YEARS $\frac{\text{NET SAVINGS}}{\text{AUTOSAVER COST}}$

343476 **4579.67%**
TATA TEL SERVICES (MAHARASHTRA) LTD
VISHNU VAIBHAV BUILDING,
22, PALM ROAD, CIVIL LINES
NAGPUR