



PRIMA PVT LTD.

TAKE A RIDE ON GREEN SIDE.



# Agenda

**01**

## **The 3 R's**

The THREE R's of our Industries is "REDUCE" , "REUSE" ,  
"RECYCLE"

And should go with it without any SAYING.

**02**

## **GREEN OUR WATER**

REUSE & RECYCLE OF WATER , RAIN WATER HARVESTING

**03**

## **GREEN CHALLENGE**

Decouple economic growth from the use & consumption of  
natural resource & energy

DO MORE with less Environmental impact & better economy &  
ecological efficiency

**04**

## **GREEN ELECTRIC.**

Go Rechargeable, use of LED , low energy consumption .

# PRIMA PVT LTD (UNIT 1)

## SOLAR ENERGY.

### GREEN ENERGY.

- WE HAVE INSTALLED TOTAL 160 KW SOLAR PANEL PLANT IN 2018
- EACH PANEL OF 270 WATT, TOTAL 650 PANEL.
- MONTHLY GENERATION OF AROUND 13000 UNITS ( KWH) .
- HERE WE USING ABOUT 20-22 % ELECTRIC ENERGY FROM A SOLAR RENEWABLE SOURCE.



# PRIMA PVT LTD (UNIT 3)

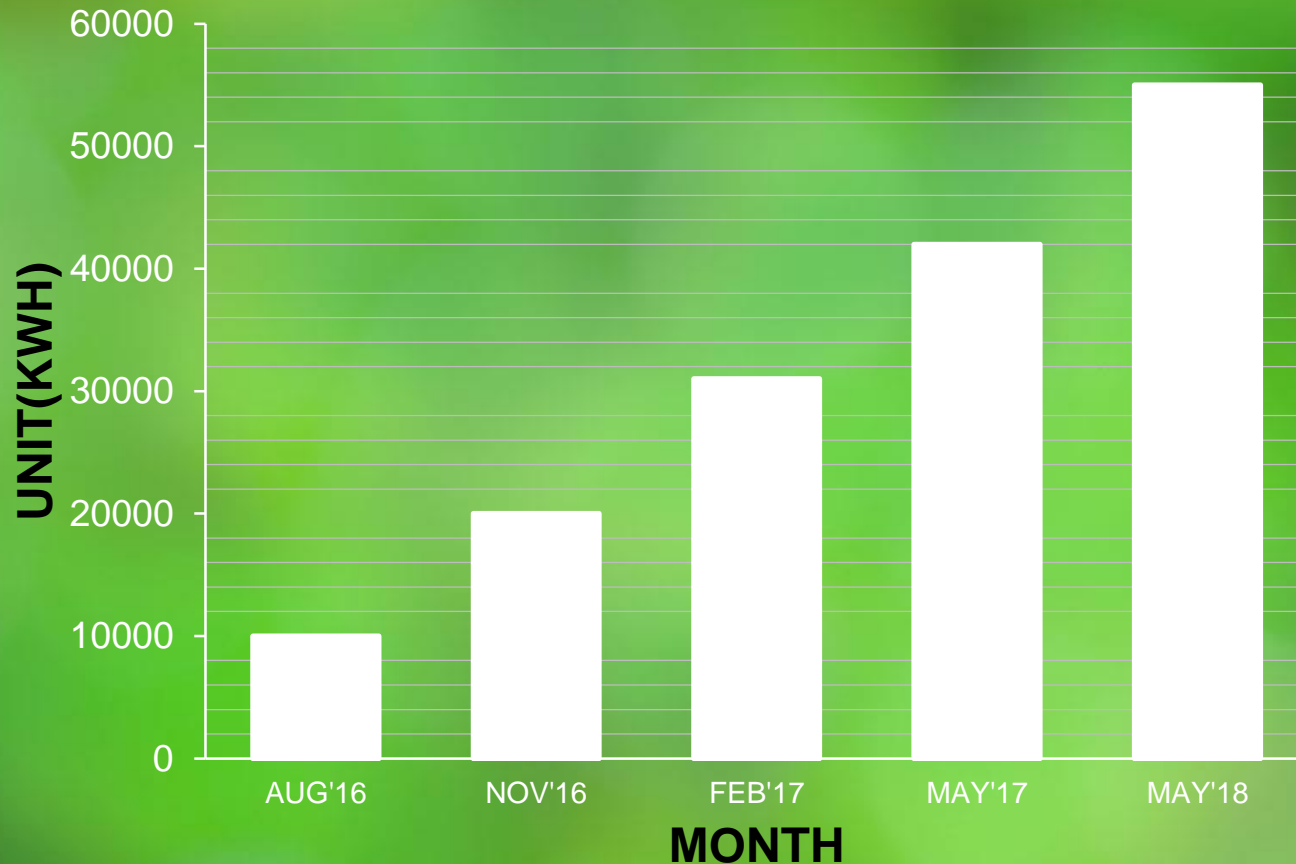
## SOLAR ENERGY.

### GREEN ENERGY.

- WE HAVE INSTALLED TOTAL 480 KW SOLAR PANEL PLANT
- EACH PANEL OF 270 WATT
- MONTHLY GENERATION OF AROUND 45,000 UNITS ( KWH) .
- HERE WE USING ABOUT 14-16 % ELECTRIC ENERGY FROM A SOLAR RENEWABLE SOURCE.
- TILL NOW IT HAS GENERATED APPROX. 11,80,000 UNITS ( KWH)



# SOLAR GENERATION .



## GO GREEN.

- ❖ HERE IS THE CHART WHICH SHOW OUR INCREASE IN USE OF RENEWABLE SOURCE OF ENERGY .
- ❖ OUR TARGET IS TO USE ALMOST 40% OF RENEWABLE RENERGY SOURCE OR BY EITHER REDUCING THE ELECTRIC CONSUMPTION BY USING VARIOUS TECHNOLOGIES.



# SOLAR ENERGY.



GO SOLAR , GO LONGER.





**PRIMA PVT LTD.**

**SOLAR PLANT MANUFACTURE.**

# MANUFACTURE UNIT OF 10 MW.

➤ BY USING THIS LAMINATOR , WE CAN LAMINATE THE SOLAR CELLS IN BETWEEN THE PANEL GLASS & BACK SHEET.

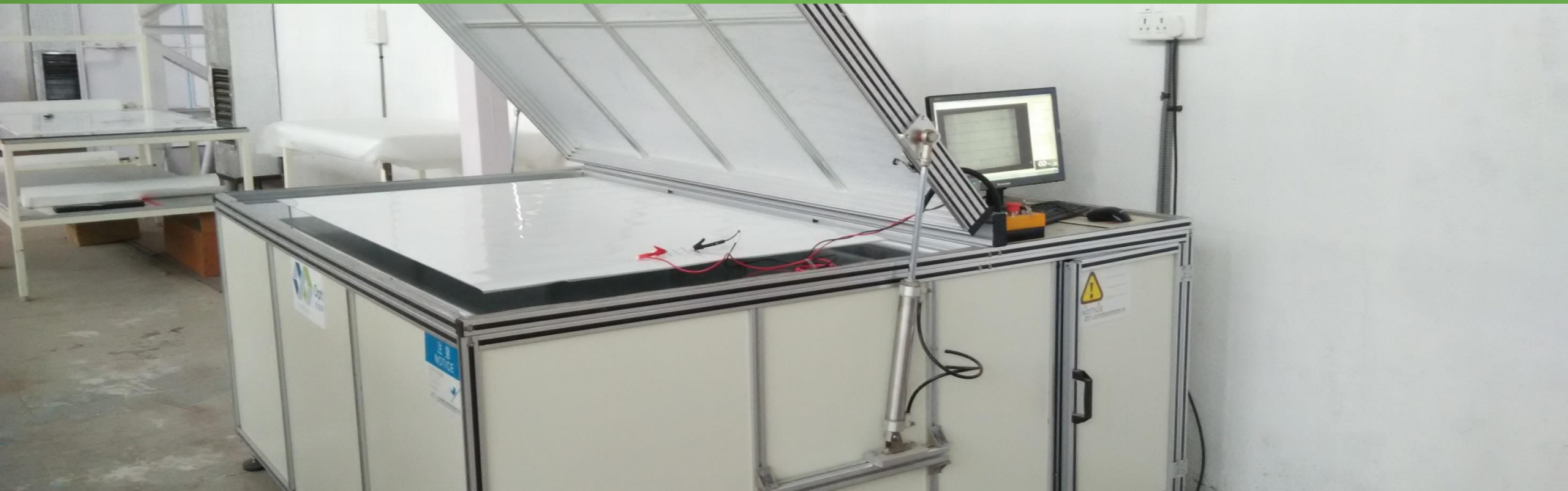
- TWO TYPES OF OPERATING MODE
- MANUAL MODE & AUTO MODE.
- IN 20 MINS OF CYCLE TIME , WE CAN LAMINATE TOTAL 2 SOLAR PV MODULE.

**LAMINATOR.**





# ELECTRO LUMINISCENT TESTER.



- THERE ARE CERTAIN FAULTS IN PV CELLS, WHICH CANNOT BE SEEN BY NAKED EYES. SO THIS M/C IS USED.
- SO THIS TEST IS CONDUCTED BEFORE AND AFTER LAMINATION FOR FAULTS LIKE PROCESS POLLUTION, MATERIAL FAULT, HIDDEN CRACK & LOW EFFICIENCY.

# Infographic Style

## CELL TESTER

- USED TO CHECK ALL PARAMETERS OF IMPORTED CELLS.
- LIKE EFFICIENCY , VOLTAGE, CURRENT & WATTAGE CAN BE CHECKED.



## LAZER SCRIBBER MACHINE.

- THIS M/C IS USED TO CUT SOLAR CELL IN SPECIFIC DIMENTION.
- USED FOR MAKING SMALL WATTAGE CELLS LIKE 3W , 10W , 20 W.
- ACC TO DESIRED DESIGN .





## FRAMMING MACHINE.

- ❖ THIS M/C IS USED TO FIX THE ALLUMINIUM FRAME TO SOLAR CELL
- ❖ FOR 250 WATT MODULE FRAME SIZE IS 1645mm X 990mm X 35mm
- ❖ FOR 300 WATT MODULE FRANE SIZE IS 1965mm X 995mm X 35mm.

# OVERVIEW SOLAR PV MODULE



## 250W TO 270 W SOLAR MODULE

- TOTAL 60 CELLS
- VOC(V) :- 36V
- ISC (A) :- 8.5A
- Vm (V) :-29V
- Im (A):- 8.1A
- E:- 1000W/m2



## 300W TO 325 W SOLAR MODULE

- TOTAL 72 CELLS
- VOC(V) :- 45V
- ISC (A) :- 8.8A
- Vm (V) :-38V
- Im (A):- 8.4A
- E:- 1000W/m2



## INVERTER.

- MAKE: FRONIUS
- OUTPUT POWER :27KW
- SOLAR PANEL IS CONNECTED TO INVERTER, THEN THIS INVERTER CONVERTS DC POWER TO AC POWER.



## SOLAR MNF. PLANT

- OUR SOLAR PLANT , INC. ALL M/C AS DISCUSSED EARLIER, WITH INCLUDING MODULE CARRIER, TESTING TABLE, EVA CUTTING TABLE, RIBBON CUTTING TABLE.



**PRIMA PVT LTD.**

**ELECTRIC VECHICLE MANUFACTURE.**

# WHY EV ?

## WELL TO WHEEL EFFICIENCY

- THE EV IS FOUND TO HAVE BETTER WTW EFFICIENCY THEN ICEV..

## AVAILABILITY OF FUEL

- FAST DEPLETION OF FOSSEL FUEL AND DEPENDENCE ON MIDDLE EAST COUNTRIES FOR FUEL.



## POLLUTION.

- TRANSPORTATION ACC. 1/3<sup>rd</sup> OF ALL ENERGY SOURCE.
- USE OF 10% EV CUTS 1 MILLION TONS/YEAR OF AIR POLLUTANTS.
- WITH 100% EV. CO2 EMISSION WOULD CUT BY HALF.

## MAINTENANCE COST.

- EV. HAS MORE CAPITAL COST.
- BUT LIFE CYCLE OF EV. IS MUCH LESSER THEN ICEV VEHICLES.

# PRIMA E – VEHICLES.



**MANUFACTURER OF ELECTRIC  
VEHICLES.**

- WE ARE LEADING MANUFACTURER OF ELECTRIC VEHICLES .
- CURRENTLY WE ARE HAVING TWO MODELS 1. E-AUTO 2. E-CART.
- ALL THE VEHICLES ARE ARAI APPROVED** FOR THE BEST IN CLASS SAFETY .



# PRIMA E- AUTO – P.

## DESCRIPTION

- ❖MOTOR 900W.
- ❖WHEEL SIZE 3.75.12.
- ❖HEAVY DUTY STEEL RIMS ABOUT 3.5KG.
- ❖HYDRAULIC SHOCKER WITH SPRING.
- ❖CY DIFFERENTIAL.
- ❖BLDC MOTOR.
- ❖24 TUBE CONTROLLER 51 AMP.
- ❖CONVERTER 20AMP.
- ❖BODY WEIGHT 125KG WITH LIQUID PAINT.
- ❖OVERALL DIMENSION 2776\*992\*1800
- ❖CHARGER I/P VOLT. 230V
- ❖CHARGE TIME 6-7 HOUR
- ❖POWER CONSUMPTION 6-10 KWH/100KM.
- ❖BATTERY CAPACITY 12V 100AH
- ❖SPEED RANGE 0-25KMPH.
- ❖FRP ROOF & WHEEL BASE 2186MM.



# PRIMA E-AUTO -C

## DESCRIPTION.

- ❖ MOTOR 900W.
- ❖ WHEEL SIZE 3.75.12.
- ❖ HEAVY DUTY STEEL RIMS ABOUT 3.5KG.
- ❖ HYDRAULIC SHOCKER WITH SPRING.
- ❖ CY DIFFERENTIAL.
- ❖ BLDC MOTOR.
- ❖ 24 TUBE CONTROLLER 51 AMP.
- ❖ CONVERTER 20AMP.
- ❖ BODY WEIGHT 125KG WITH LIQUID PAINT.
- ❖ OVERALL DIMENSION 2776\*992\*1800
- ❖ CHARGER I/P VOLT. 230V
- ❖ CHARGE TIME 6-7 HOUR
- ❖ POWER CONSUMPTION 6-10 KWH/100KM.
- ❖ BATTERY CAPACITY 12V 100AH
- ❖ SPEED RANGE 0-25KMPH.
- ❖ FRP ROOF & WHEEL BASE 2186MM.
- ❖ WEIGHT CARRING CAPACITY 300KG.





# THE THREE R'S

## REDUCE

- ENERGY SAVING.:- FOR ENERGY SAVING WE HAVE CONVERTED OUR INDUCTION MOTOR BY A SERVO MOTOR BY WHICH IT REDUCED THE POWER CONSUMPTION BY ALMOST 50% .
- ALL THE LIGHTS HAVE BEING CONVERTED BY LED'S
- WE HAVE ALSO MOVED TO ALL ELECTRIC INJ. MOULD MACHINE .



# THE THREE R'S

## REUSE

- ALL THE METAL BINSS WHICH ARE DAMAGED ARE REUSED AND REDESIGN AND USED AGAIN.
- THE CARRIER BAGS WHICH ARE USED FOR PACKING IS REUSED FOR THE NEXT LOT.
- OLD TYRES OF OUR VEHICLES ARE USED FOR MOULD SAFETY UNLOADING.

## RECYCLE

- RAIN WATER HARVESTING WHICH IS USED FOR MACHINE COOLING SYSTEM.
- ALL THE WASTE OF THE PLANTS ARE USED AS THE FERTILIZERS.
  - RECYCLE THE WATER.
- ALL THE REJECTED PARTS , WASTE IS GIVEN TO RECYCLE UNIT FOR BETTER ENVIRONMENT.

# GREEN PRIMA.



“

THE ENVIRONMENT AND THE ECONOMY ARE REALLY BOTH SIDE OF THE COIN .  
IF WE CANNOT SUSTAIN THE ENVIRONMENT ,  
WE CANNOT SUSTAIN OURSELF.

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Thank you  
PRIMA PVT LTD.