

B.O.Q FOR "ECONOMIA" SINGLE ARM SOLAR STREET LIGHT STAND ALONE

S.#	Specification	LED Light Wattage						
		24 W	30 W	36 W	48 W	60 W	80 W	96 W
1	Supply & Fixing of ECONOMIA Single Arm Solar Street Light. Pole design is based on thermo siphon technology to maintain low temperature in battery storage as per specifications and drawing.	Height 22-25'	Height 22-25'	Height 22-25'	Height 22-25'	Height 30-35'	Height 30-35'	Height 30-35'
2	Supply & Fixing of 2-Stage LED Light. (LED Korean, Assembled Locally by ECONOMIA)	24 W	30 W	36 W	48 W	60 W	80 W	96 W
3	Supply & Fixing of Solar Panels comprising mono crystalline Cells EU brand and assembled locally with adjustable brackets placed top of the pole as shown on drawing.	48 W x 2 Nos (96 W)	65 W x 2 Nos (130 W)	75 W x 2 Nos (150 W)	90 W x 2 Nos (180 W)	120 W x 2 Nos (240 W)	140 W x 2 Nos (280 W)	150 W x 2 Nos (300 W)
4	Supply & Fixing of Charge controller with digital display, manufactured & designed by ECONOMIA compatible with GSM monitoring.	10 Amps	10 Amps	10 Amps	10 Amps	20 Amps	20 Amps	20 Amps
5	Supply & Fixing of 2-Stage Logic controller at low Battery, 1st Cut off stage.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	Supply & Fixing of Dry Batteries / Lithium-Ion	30 AH x 2 Nos (60 AH)	40 AH x 2 Nos (80 AH)	40 AH x 2 Nos (80 AH)	50 AH x 2 Nos (100 AH)	40 AH x 4 Nos (160 AH)	100 AH x 2 Nos (200 AH)	120 AH x 2 Nos (240 AH)
7	Excavation work and reinforced concrete for foundation.	By client	By client	By client	By client	By client	By client	By client
Cost of One (1) Street Light		Rs.125,000	Rs.150,000	Rs.180,000	Rs.200,000	Rs.275,000	Rs.300,000	Rs.350,000

Note:

The above mentioned prices are exclusive of all taxes.

For AGECO (Pvt) Ltd.,

B.O.Q FOR "ECONOMIA" DOUBLE ARM SOLAR STREET LIGHT STAND ALONE

S.#	Specification	LED Light Wattage						
		24 W	30 W	36 W	48 W	60 W	80 W	96 W
1	Supply & Fixing of ECONOMIA Double Arm Solar Street Light. Pole design is based on thermo siphon technology to maintain low temperature in battery storage as per specifications and drawing.	Height 22-25'	Height 22-25'	Height 22-25'	Height 22-25'	Height 30-35'	Height 30-35'	Height 30-35'
2	Supply & Fixing of 2-Stage LED Light. (LED Korean, Assembled Locally by ECONOMIA)	24 W x 2 Nos	30 W x 2 Nos	36 W x 2 Nos	48 W x 2 Nos	60 W x 2 Nos	80 W x 2 Nos	96 W x 2 Nos
3	Supply & Fixing of Solar Panels comprising mono crystalline Cells EU brand and assembled locally with adjustable brackets placed top of the pole as shown on drawing.	90 W x 2 Nos (180 W)	130 W x 2 Nos (260 W)	140 W x 2 Nos (280 W)	150 W x 2 Nos (300 W)	200 W x 2 Nos (400 W)	240 W x 2 Nos (480 W)	265 W x 2 Nos (530 W)
4	Supply & Fixing of Charge controller with digital display, manufactured & designed by ECONOMIA compatible with GSM monitoring.	10 Amps	10 Amps	10 Amps	10 Amps	20 Amps	20 Amps	20 Amps
5	Supply & Fixing of 2-Stage Logic controller at low Battery, 1st Cut off stage.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	Supply & Fixing of Dry Batteries / Lithium-Ion	30 AH x 4 Nos (120 AH)	40 AH x 4 Nos (160 AH)	40 AH x 4 Nos (160 AH)	100 AH x 2 Nos (200 AH)	160 AH x 2 Nos (320 AH)	100 AH x 4 Nos (400 AH)	120 AH x 4 Nos (480 AH)
7	Excavation work and reinforced concrete for foundation.	By client	By client	By client	By client	By client	By client	By client
Cost of One (1) Street Light		Rs.200,000	Rs.250,000	Rs.300,000	Rs.350,000	Rs.475,000	Rs.550,000	Rs.700,000

Note:

The above mentioned prices are exclusive of all taxes.

For AGECO (Pvt) Ltd.,



DESIGN CRITERIA AND PERFORMANCE GUARANTEE

“ECONOMIA” PRODUCT IS DESIGNED AND MANUFACTURED BY M/S AGEKO (PVT) LTD., ISLAMABAD AND HAS ITS PATENT RIGHTS. HOWEVER, SOME PARTS ARE IMPORTED AND INCORPORATED FOR MANUFACTURING BUT ARE UNDER GUARANTEE/WARRANTY AS LOCALLY MANUFACTURED COMPLETE SYSTEM.

LIFE SPAN

a. SOLAR PANEL.

10-YEARS PERFORMANCE GUARANTEE HOWEVER, CELL MANUFACTURER CLAIMS OVER 25-YEARS LIFE WITH 10% DE-RATING EFFICIENCY.

b. LED LIGHT.

1-YEAR PERFORMANCE GUARANTEE HOWEVER, LED MANUFACTURER CLAIMS 60,000 TO 100,000 HOURS LIFE WHICH IS EQUIVALENT TO 15 TO 25-YEARS WITH 10% TO 20% DE-RATING EFFICIENCY.

c. LITHIUM ION BATTERY.

2-YEARS PERFORMANCE GUARANTEE HOWEVER, BATTERY MANUFACTURER CLAIMS 6-10 YEARS BATTERY LIFE.

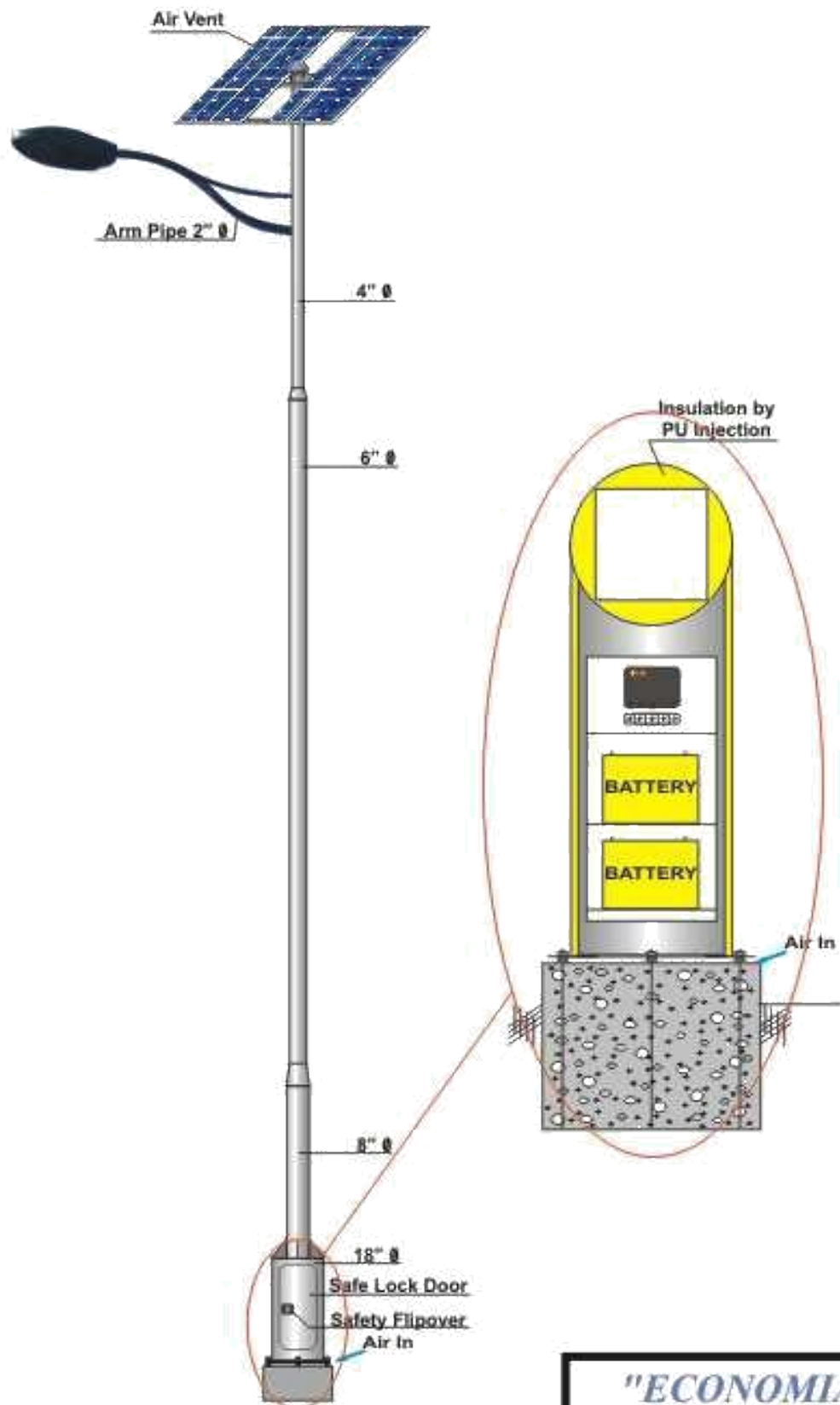
d. ELECTRONIC CONTROLLER

1-YEAR WARRANTY HOWEVER, COMPONENT LIFE ARE OVER 30-YEARS.

LIGHT LUMENS

□ 90-120-LM PER WATT.

For AGEKO (Pvt) Ltd.,



**DETAIL STRUCTURE DESIGN OF
ECONOMIA SOLAR STREET LIGHT**

"ECONOMIA"

AGECO (Pvt) Ltd.,
Solar & Wind Energy and
Central Heating & Cooling System

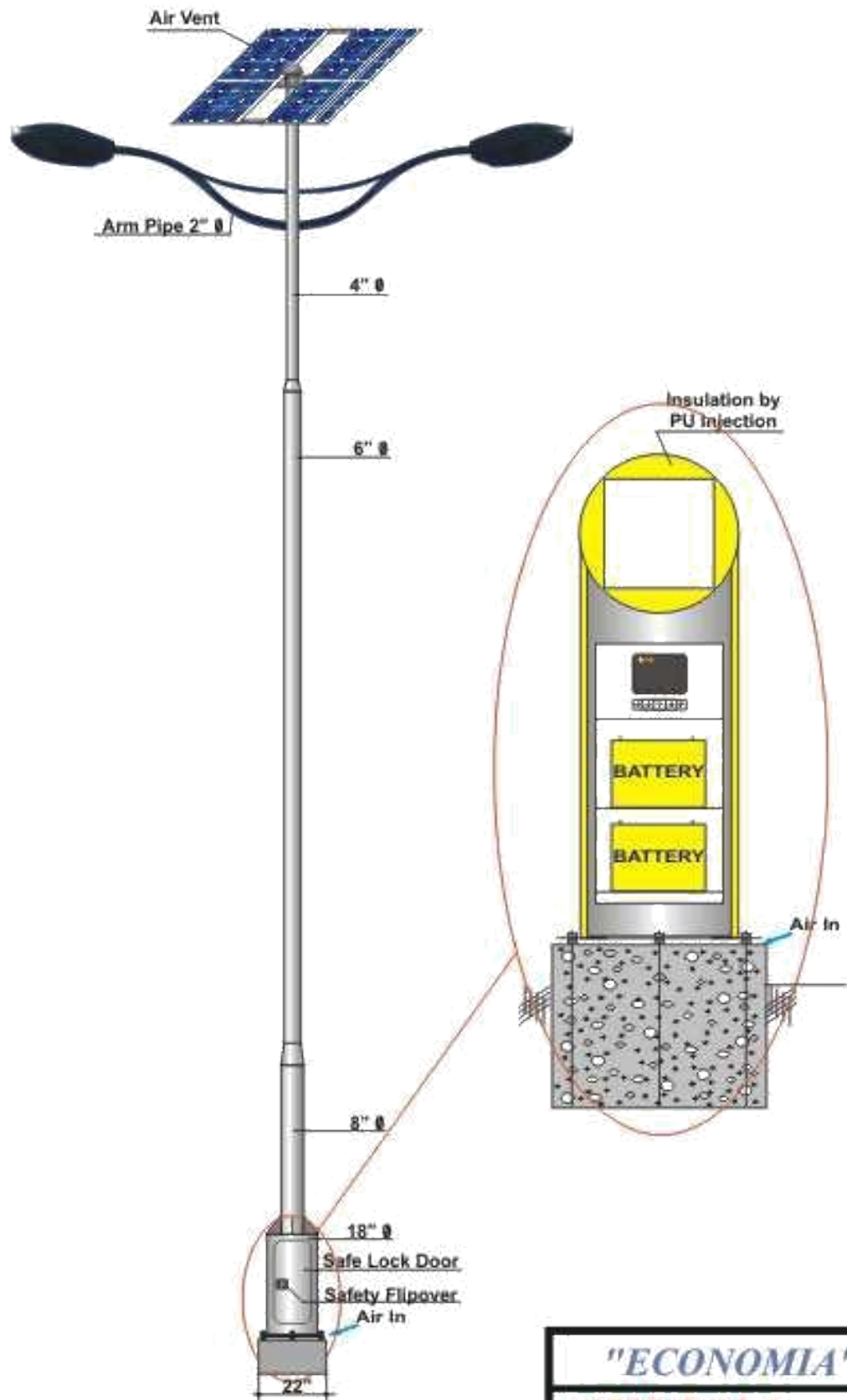
PROPOSED DESIGN OF "ECONOMIA"
SINGLE ARM SOLAR STREET LIGHT

Job No:
2825

Org No:
AGE/SASSL-2825-01

Scale:
N.T.S

Date:
25-11-2011



**DETAIL STRUCTURE DESIGN OF ECONOMIA
DOUBLE ARM SOLAR STREET LIGHT**

"ECONOMIA"

AGECO (Pvt) Ltd.,
Solar & Wind Energy and
Central Heating & Cooling System

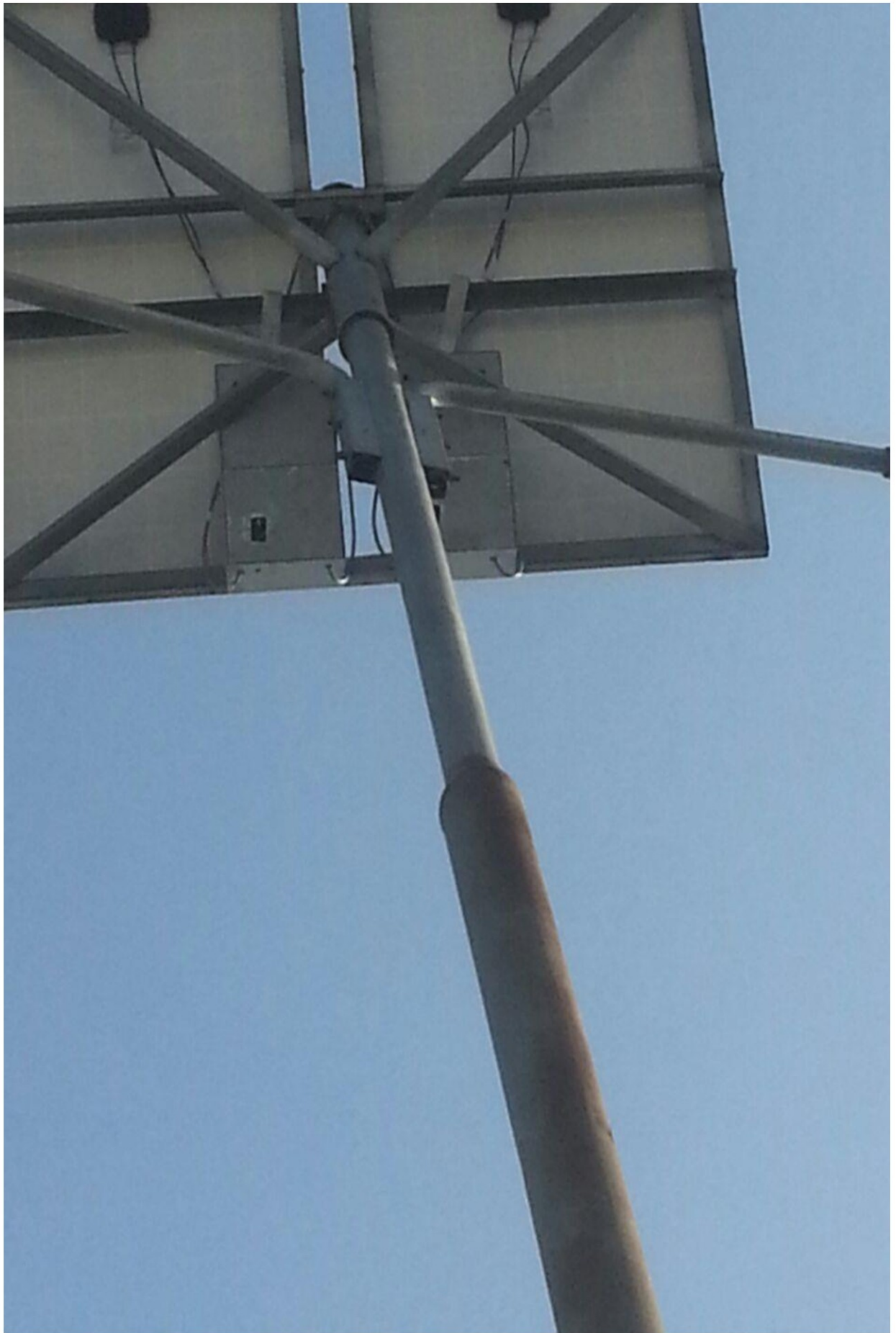
PROPOSED DESIGN OF "ECONOMIA"
DOUBLE ARM SOLAR STREET LIGHT

Job No.
2825

Org No.
AGE/DASSL-2825-02

Scale
N.T.S

Date
25-11-2011



LITHIUM-ION BATTERY PLACE UNDER SOLAR PANELS

ECONOMIA



SOLAR STREET LIGHT AT JINNAH AVENUE BLUE AREA



LAHORE GUJRANWALA EXPRESS WAY, EMANABAD

ECONOMIA



**PROPOSED SOLAR STREET LIGHT
AT STADIUM MIRPUR**



**RESOURCE DEVELOPMENT INSTITUTE (RDI)
RAWAT**

ECONOMIA



CENTAURUS AT JINNAH AVENUE



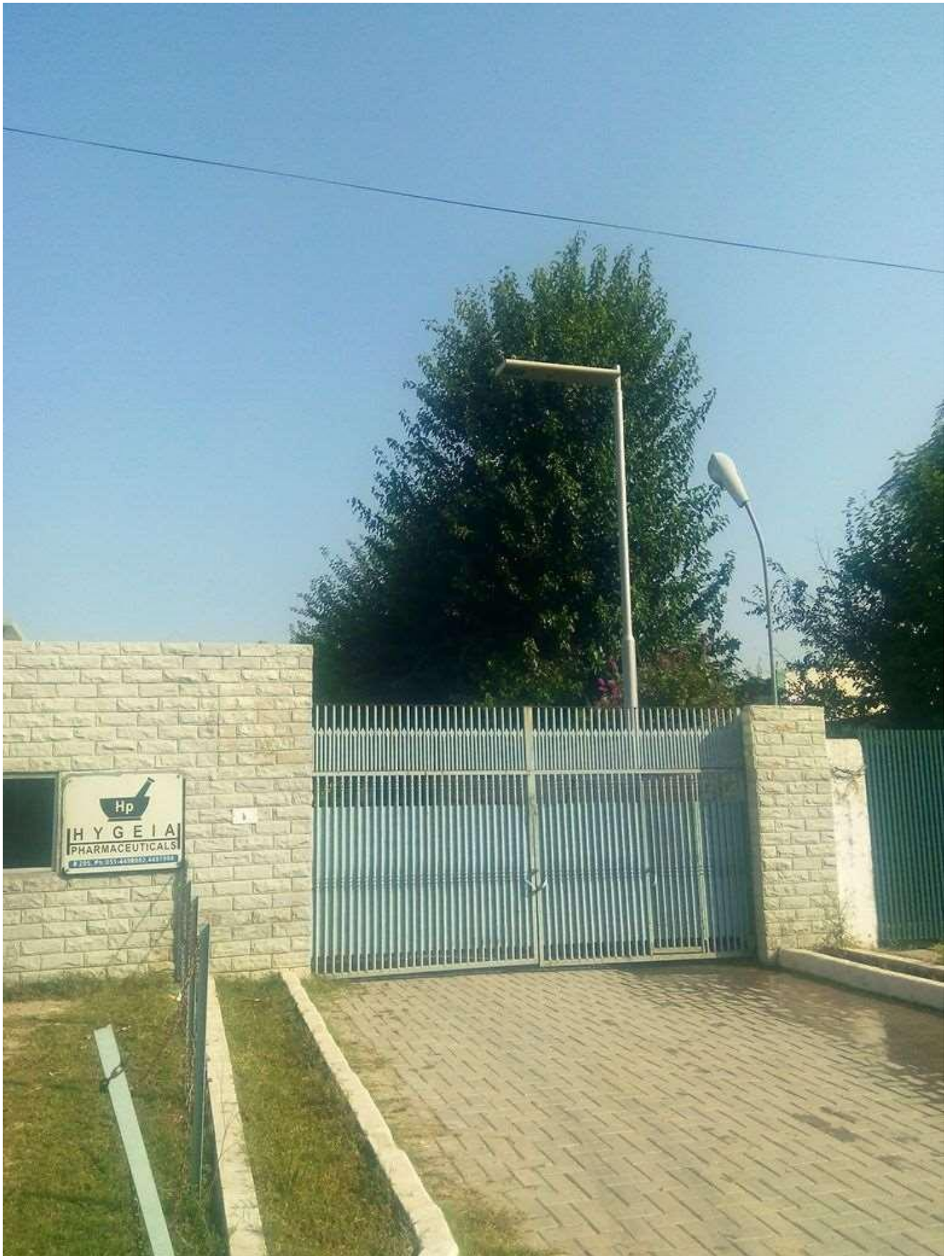
**ENGINEERS COOPERATIVE HOUSING SOCIETY
D-18, ISLAMABAD**



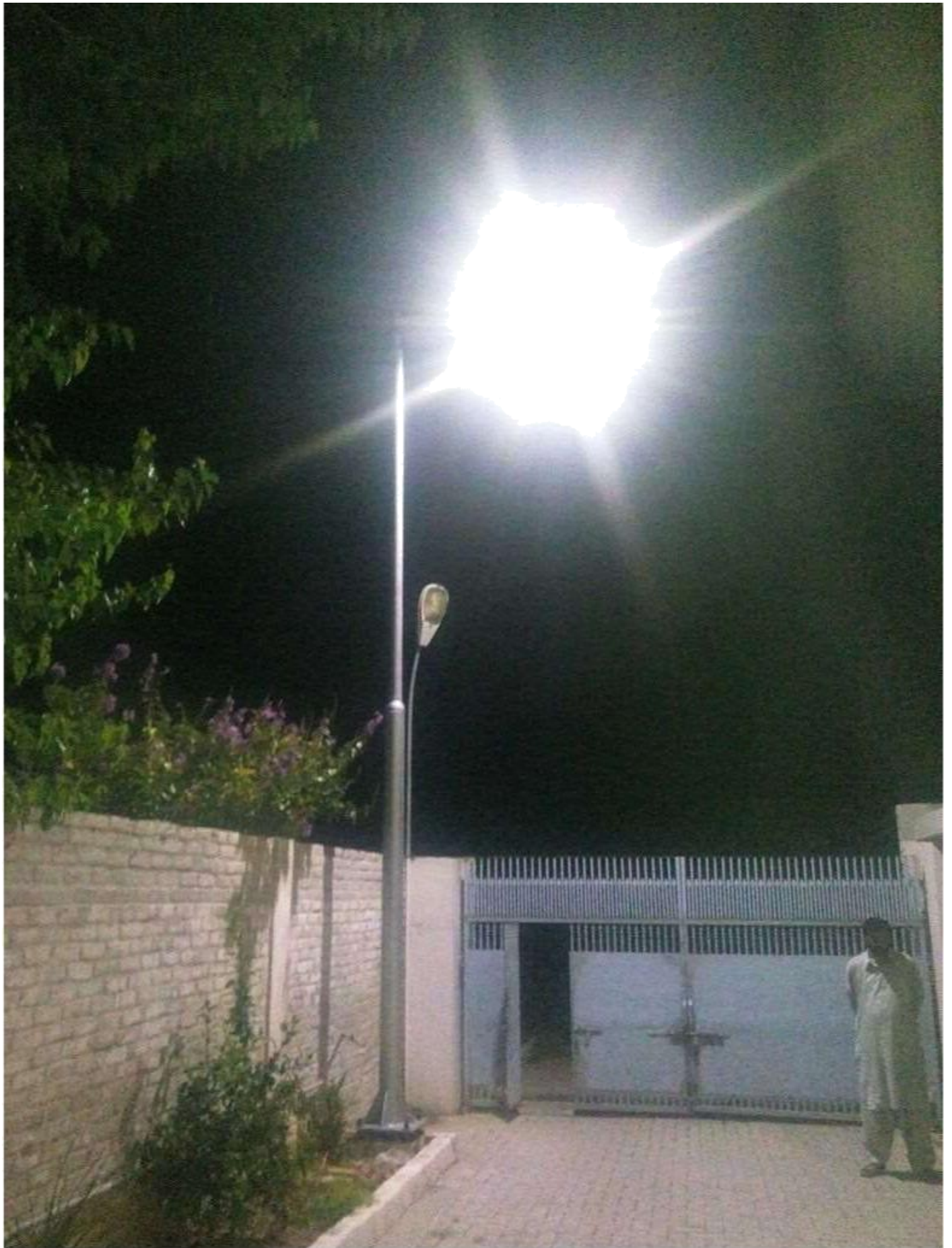
**SOLAR STREET LIGHT WITH LITHIUM
BATTERY AT ECHS, D-18 ISLAMABAD**



**SOLAR STREET LIGHT WITH LITHIUM
BATTERY AT ECHS, D-18 ISLAMABAD**



**SELF CONTAINED SOLAR STREET LIGHT
WITH LITHIUM BATTERY & GLASS LESS PANELS**



**SELF CONTAINED SOLAR STREET LIGHT
WITH LITHIUM BATTERY & GLASS LESS PANELS**



**SELF CONTAINED SOLAR STREET LIGHT WITH
LITHIUM BATTERY & GLASS LESS PANELS AT
ECHS, D-18 ISLAMABAD**

TWO / THREE STAGE LED STREET LIGHT



Specifications

LED Light	
Two/Three Stage	120, 96, 84, 72, 60, 48, 36, 30, 24, 18 Watts
Lumination	90-140 Lumens/Watt
Power Supply	220(165-265)-VAC & 12/24 VDC (Solar)
Casing	
Casing Material	Aluminum Confirming to IP-20
Color	Off White Powder Coated
Light Holding Pipe Size	1-1/2" & 2"
Controller	
Switching	Auto Sensor
LED Grouping	
24 V	6 LEDs Grouping
220V	14 LEDs Grouping

Manufacturer:



AGECO (Pvt.) Ltd.



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