



RAIMOND SOLAR Pvt. Ltd.

**Think of sense
Think of sensation
Think of Raimond Solar**

**Financial Year
2024-25**

**PRODUCT
BROCHURE**

INTRODUCTION

In a world with growing demands of environmentally benign power, solar energy has the advantage of being low cost solar electricity for grid connected application to day. Raimond Solar, An ISO 9001:2015 Certified and MSME, MNRE approved since from its inception in year 2009, for more than 13 years has been a leading provider of solar energy solutions in India and welcomes you to love solar too.

The organization feels proud to introduce a range of complete solutions for better and clean environment in working and production areas of solar energy solutions with eco friendly environment products.

We need you to appreciate the change to solar and to have in source without dread of your electric bill and enables you to use clean vitality of free power from the sun.

Our ambition is to fulfill the customer needs under the supervision and guidance of highly experienced professional in appropriate span of time with suitable prices. The Raimond Solar uses the technology of simple digital and easy to use tools, which are designed as well as developed with an approach of modern operator centric industrial process.

Throughout the years, RAIMOND SOLAR has created and popularized one of a kind solar power arrangements modified for every application. These incorporate housetop frameworks for various sorts of rooftops, solarized petroleum siphons, DC water siphons for framing and household necessity.

We trust that we are an entrenched brand that has developed close by the quickly developing Indian solar market since 2009. We have turned out to be a solid engineer with fruitful and practical execution of our advancement pipeline. We trust we have turned out to be one of the biggest solar unit and administrator in all over West Bengal and across India. We are a vertically integrated solar company that offers customers the highest quality solar energy system.

We are pleased to prove ourselves as not just profitable but to be more competitive and high potential growth organization, ensuring the economic activity that helps to progress. This addresses the subject of solar energy and energy efficiency are a priority for this.

The vision of "RAIMOND SOLAR" is to implement solar energy system installations and energy efficiency activities to do it in a way, so that customers get a good outcome and society as a whole gets a positive impact sincerely.

Director
RAIMOND SOLAR PVT LTD.



RAIMOND SOLAR Pvt. Ltd.

Helpline : +91 90730 59780



Certificate of Registration

This is to certify that

RAIMOND SOLAR PVT. LTD.

**267, SUSANGINI APARTMENT, A. P. NAGAR, SONARPUR,
KOLKATA, 24PGS (S) - 700150 WEST BENGAL, INDIA**

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 14001:2015

Environmental Management System

For the following scope of activities:

MANUFACTURER OF SOLAR PRODUCTS

Date of Initial Registration: 22nd December 2023

Certificate Expiry: 21st December 2026

Date of this Certificate: 22nd December 2023

Recertification Due: 21st December 2026

Certificate Number: 305023122210E



Chandan...
Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.
(In case surveillance audit is not allowed to be conducted: this certificate shall be suspended / withdrawn).

The Validity of this certificate can be verified at www.qrocert.org

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KOLKATA, 24PGS (S) - 700150 WEST BENGAL, INDIA**

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 45001:2018

Occupational Health and Safety Management System

For the following scope of activities:

MANUFACTURER OF SOLAR PRODUCTS

Date of Initial Registration: 22nd December 2023

Certificate Expiry: 21st December 2026

Date of this Certificate: 22nd December 2023

Recertification Due: 21st December 2026

Certificate Number: 305023122209HS



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KOLKATA, 24PGS (S) - 700150 WEST BENGAL, INDIA**

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

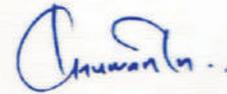
MANUFACTURER OF SOLAR PRODUCTS

Date of Initial Registration: 22nd December 2023
Date of this Certificate: 22nd December 2023

Certificate Expiry: 21st December 2026
Recertification Due: 21st December 2026

Certificate Number: 305023122208Q




Head of Certification

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Website : www.qrocert.org, E-mail : info@qrocert.org

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Helpline : +91 90730 59780





UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-WB-18-0032969

NAME OF ENTERPRISE

M/S RAIMOND SOLAR PRIVATE LIMITED

TYPE OF ENTERPRISE *

SNo.	Data Year	Classification Year	Enterprise Type	Classification Date
1	2020-21	2022-23	Micro	05/01/2023

MAJOR ACTIVITY

MANUFACTURING

SOCIAL CATEGORY OF ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	RAIMOND SOLAR PRIVATE LIMITED

OFFICIAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	C/O-SATHI BAIDYA	Name of Premises/ Building	SUSANGINI APARTMENT
Village/Town	SONARPUR	Block	SONARPUR
Road/Street/Lane	SONARPUR	City	SONARPUR
State	WEST BENGAL	District	SOUTH 24 PRAGANAS , Pin 700150
Mobile	6294897723	Email:	shrabonsarkar23@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE

28/01/2021

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS

12/12/2022

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	27 - Manufacture of electrical equipment	2720 - Manufacture of batteries and accumulators	27201 - Manufacture of primary cells and primary batteries and rechargeable batteries, cells containing manganese oxide, mercuric oxide silver oxide or other material	Manufacturing
2	27 - Manufacture of electrical equipment	2740 - Manufacture of electric lighting equipment	27400 - Manufacture of electric lighting equipment	Manufacturing
3	35 - Electricity, gas, steam and air conditioning supply	3510 - Electric power generation, transmission and distribution	35105 - Electric power generation using solar energy	Manufacturing
4	43 - Specialized construction activities	4321 - Electrical installation	43213 - Installation of street lighting and electrical signals	Manufacturing

DATE OF UDYAM REGISTRATION

05/01/2023

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing: - 05/01/2023

For any assistance, you may contact:

1. District Industries Centre: SOUTH 24-PRAGANAS (WEST BENGAL)

2. MSME-DFO: KOLKATA (WEST BENGAL)

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भारतीय मानक ब्यूरो

(उत्प्रेक्षक मानक, वाक एवं सार्वजनिक वितरण संसाधन, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002
दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402
ई-मेल/E-mail: registration@bis.gov.in
वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2023-2510/R-51002330

Date:26-07-2023

Subject : Licence Document

Manufacturing Unit :	Raimond Solar DIHI, P.O- NAYABAD, P.S - SONARPUR, PIN- 700150 WEST BENGAL, India-700150 raimondsolar83@gmail.com 8981456288	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	LED Luminaires for Road and Street Lighting
Product Name:	LED Luminaires for Road and Street lighting
IS NO :	IS 10322 (PART 5/SEC 3) : 2012
Brand (As Declared by Manufacturer) :	Raimond Solar
Model :	[Brand -> Raimond Solar, Models -> Raimond]
Factory Address :	DIHI, P.O- NAYABAD, P.S - SONARPUR, PIN- 700150 WEST BENGAL, India-700150

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

3. The number assigned to this Licence is **R-51002330** which has been made operative from **26-07-2023** and is valid upto **25-07-2025**. The Licence Number should invariably be referred to in your future correspondence.

4. The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.

8. Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.

9. For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Sonali Gupta)
Scientist-B
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.

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12 Watt Single Arm (Model - A)



12 Watt Double Arms (Model - A-I)

Product Description

12 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 50WP Mono Crystalline - Raimond	1 No	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 12 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	1 No	24 Months
5	Battery (15Ah LiFePo4) - Raimond	1 No	60 Months
6	Wire, Cable & Accessories	1 Set	Nil

12 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 50WP Mono Crystalline - Raimond	2 Nos	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 12 W LED (Philips) + Housing	2 Nos	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	2 Nos	24 Months
5	Battery (15Ah LiFePo4) - Raimond	2 Nos	60 Months
6	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details		50wp Panel
	Weight		3.3 kg
	Dimension (Width x Height x Thickness)		506 X 665 X 30 mm

Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness
	76 mm	18 kg	2 mm

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	15AhLiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 15 Ah

Solar street light is used to light Streets, Highways, Parks, Gardens and to secure Boundary Walls of a Factory, School and College Campus. Some remote areas such as hill areas of Himachal Pradesh and Assam, Collage Campus, National Highway Roads, Parking Areas, Public Places in Villages such as Temples, Rivers etc.



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15 Watt Single Arm (Model - B)



15 Watt Double Arms (Model - B-1)

Product Description

15 Watt Single Arm

No	DESCRIPTION OF SCHEM	QTY	Warranty
1	Solar Panel 75WP Mono Crystalline -Raimond	1 No	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 15 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	1 No	24 Months
5	Battery (20Ah LiFePo4) - Raimond	1 No	60 Months
6	Wire, Cable & Accessories	1 Set	Nil

15 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 75WP Mono Crystalline -Raimond	2 Nos	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 15 W LED (Philips) + Housing	2 Nos	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	2 Nos	24 Months
5	Battery (20Ah LiFePo4) - Raimond	2 Nos	60 Months
6	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details		75wp Panel
	Weight		5.5 kg
	Dimension (Height x Width x Thickness)		780 X 665 X 30 mm
Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness
	76 mm	18 kg	2 mm
	Battery (Ah)	Volt	Cell Quantity
20AhLiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 20 Ah

Solar street lights are raised light sources which are powered by solar panels generally mounted on the lighting structure or semi-integrated into the pole itself. The solar panels charge a rechargeable Lithium Ferro-Phosphate Battery, which powers a fluorescent or LED lamp during the night.

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18 Watt Single Arm (Model - C)



18 Watt Double Arms (Model - C-I)

Product Description

18 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 75WP Mono Crystalline -Raimond	1 No	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	StreetLight - 18 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	1 No	24 Months
5	Battery (20Ah LiFePo4) - Raimond	1 No	60 Months
6	Wire, Cable & Accessories	1 Set	Nil

18 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 75WP Mono Crystalline -Raimond	2 Nos	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light- 18 W LED (Philips) + Housing	2 Nos	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	2 Nos	24 Months
5	Battery (20Ah LiFePo4) - Raimond	2 Nos	60 Months
6	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details	
	Weight	75wp Panel 5.5 kg
	Dimension (Height x Width x Thickness)	780 X 665 X 30 mm

Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness
	76 mm	18 kg	2 mm

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	20AhLiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 20 Ah

Solar street lights system is ideal for street lighting. The system is provided with battery storage backup sufficient to operate the light for 10 -12 hours daily. The system is provided with automatic ON/OFF time switch for dusk to dawn operation and overcharge / deep discharge prevention cut-off..



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24 Watt Single Arm (Model - D)



24 Watt Double Arms (Model - D-I)

Product Description

24 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 100WP Mono Crystalline - Raimond	1 No	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 24 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 15 AMP - Raimond	1 No	24 Months
5	Battery (30Ah LiFePo4) - Raimond	1 No	60 Months
6	Wire, Cable & Accessories	1 Set	Nil

24 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 100WP Mono Crystalline - Raimond	2 Nos	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 24 W LED (Philips) + Housing	2 Nos	24 Months
4	MPPT Charge Controller 15 AMP - Raimond	2 Nos	24 Months
5	Battery (30Ah LiFePo4) - Raimond	2 Nos	60 Months
6	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details	
	Weight	100wp Panel 7 kg
	Dimension (Height x Width x Thickness)	985 X 665 X 30 mm

Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness
	76 mm	18 kg	2 mm

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	30Ah LiFePo4	12.8 Volt	8 Nos.	3.2 Volt, 15

Solar street lights system with all its accessories including 6 mtr GI Pole, OD 76 mm with module structure, Light Arm and wire clamp etc. Caring 5 years warranty in LED Luminary, 5 years warranty in Lithium Po4 Battery and 25 Years warranty in Solar Panel.

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30 Watt Single Arm (Model - E)



30 Watt Double Arms (Model - E - I)

Product Description

30 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 125WP Mono Crystalline - Raimond	1 No	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 30 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 15 AMP - Raimond	1 No	24 Months
5	Battery (36Ah LiFePo4) - Raimond	1 No	60 Months
6	Battery Box & Setting Accessories	1 No	Nil
7	Wire, Cable & Accessories	1 Set	Nil

30 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 125WP Mono Crystalline - Raimond	2 Nos	25 Years
2	GI Pole 6 mtr + Panel Structure + Light Arm	1 No	Nil
3	Street Light - 30 W LED (Philips) + Housing	2 Nos	24 Months
4	MPPT Charge Controller 15 AMP - Raimond	2 Nos	24 Months
5	Battery (36Ah LiFePo4) - Raimond	2 Nos	60 Months
6	Battery Box & Setting Accessories	1 No	Nil
7	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details		125wp Panel
	Weight		9 kg
	Dimension (Height x Width x Thickness)		1145 X 665 X 30 mm

Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness
	76 mm	18 kg	2 mm

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	36Ah LiFePo4	12.8 Volt	24 Nos.	3.2 Volt, 6 Ah

Solar street lights system consist of solar PV Modules, Lithium Ferro Phosphate Battery, MPPT Solar Charge Controller, DC Street Light. LED Street Light are used to minimize the power consumption and charging by PV Modules.



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42 Watt Single Arm (Model - E-X)



42 Watt Double Arms (Model - E-Y)

Product Description

42 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 150WP Mono Crystalline - Raimond	1 No	25 Years
2	OctaPole 7 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	Street Light 42 W LED (Philips) + Housing (Stand Loon)	1 No	24 Months
5	MPPT Charge Controller 20 AMP - Raimond	1 No	24 Months
6	Battery (45Ah LiFePo4) - Raimond	1 No	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	1 Set	Nil

42 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 150WP Mono Crystalline - Raimond	2 Nos	25 Years
2	OctaPole 7 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos.	Nil
4	Street Light 42 W LED (Philips) + Housing (Stand Loon)	2 Nos	24 Months
5	MPPT Charge Controller 20 AMP - Raimond	2 Nos	24 Months
6	Battery (45Ah LiFePo4) - Raimond	2 Nos	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details		150wp Panel
	Weight		11 kg
	Dimension (Height x Width x Thickness)		1490 X 665 X 30 mm

Mechanical Characteristics of 7 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	40 kg	100 mm (Bottom Dia) & 65mm (Top Dia)	3 mm	200mm/200mm/12mm	M 20 x 450 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	45Ah LiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 15 AH

Solar street lights system consist of solar PV Modules, Lithium Ferro Phosphate Battery, MPPT Solar Charge Controller, DC Street Light. LED Street Light are used to minimize the power consumption and charging by PV Modules.

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60 Watt Single Arm (Model - E-Y-I)



60 Watt Double Arms (Model - E-Y-II)

Product Description

60 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 180WP Mono Crystalline - Raimond	1 No	25 Years
2	OctaPole 7 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	Street Light 60 W LED (Philips) + Housing (Stand Loon)	1 No	24 Months
5	MPPT Charge Controller 25 AMP - Raimond	1 No	24 Months
6	Battery (60Ah LiFePo4) - Raimond	1 No	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	1 Set	Nil

60 Watt Double Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 180WP Mono Crystalline - Raimond	2 Nos	25 Years
2	OctaPole 7 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos.	Nil
4	Street Light 60W LED (Philips) + Housing (Stand Loon)	2 Nos	24 Months
5	MPPT Charge Controller 25 AMP - Raimond	2 Nos	24 Months
6	Battery (60Ah LiFePo4) - Raimond	2 Nos	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	2 Set	Nil

Mechanical Characteristics of Solar panel	Details	
	Weight	180wp Panel 15 kg
	Dimension (Height x Width x Thickness)	1510 X 675 X 35 mm

Mechanical Characteristics of 7 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	40 kg	100 mm (Bottom Dia) & 65mm (Top Dia)	3 mm	200mm/200mm/12mm	M 20 x 450 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	60Ah LiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 20 Ah

Solar street lights system consists of solar PV Modules, Lithium Ferro Phosphate Battery, MPPT Solar Charge Controller, DC Street Light. LED Street Light are used to minimize the power consumption and charging by PV Modules.



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18 Watt Single Arm (Model - W- II)



24 Watt Single Arm (Model - W- III)

Product Description

18 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 50WP Mono Crystalline - Raimond	1 No	25 Years
2	GI Pole 6 mtr	1 No	Nil
3	LED Street Light 18 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 10 AMP - Raimond	1 No	24 Months
5	PIR Censer	1 No	24 Months
6	Battery (20Ah LiFePo4) - Raimond	1 No	60 Months

24 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 60WP Mono Crystalline - Raimond	1 No	25 Years
2	GI Pole 6 mtr	1 No	Nil
3	LED Street Light 24 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 15 AMP - Raimond	1 No	24 Months
5	PIR Censer	1 No	24 Months
6	Battery (30Ah LiFePo4) - Raimond	1 No	60 Months

Mechanical Characteristics of Solar panel	Details	50wp Panel + Housing	60wp Panel + Housing
	Weight	7.4 kg	9.5 kg
	Dimension (Width x Height x Thickness)	506 X 665 X 90 mm	750 X 665 X 90 mm

Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness
	76 mm	18 kg	2 mm

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	20 Ah LiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 20 Ah
	30 Ah LiFePo4	12.8 Volt	8 Nos.	3.2 Volt, 15 Ah

Solar Street light system is an independent individual, no need of cables laying and electric equipment, both cost-saving and labor-saving. Solar Street light have a longer serving life than other ordinary street light.

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30 Watt Single Arm (Model - W-IV)



42 Watt Single Arm (Model - W-V)

Product Description

30 Watt Single Arm

No	DESCRIPTION OESCHEM	QTY	Warranty
1	Solar Panel 80WP Mono Crystalline -Raimond	1 No	25 Years
2	GI Pole 6 mtr	1 No	Nil
3	LEDStreet Light 30 W LED (Philips) + Housing	1 No	24Months
4	MPPT Charge Controller 15 AMP - Raimond	1 No	24Months
5	PIR Censer	1 No	24 Months
6	Battery (36Ah LiFePo4) - Raimond	1 No	60 Months
7	Installation -civil work, earth cutting, concrete	1 Set	Nil

42 Watt Single Arm

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 110WP Mono Crystalline -Raimond	1 No	25 Years
2	GI Pole 6 mtr	1 No	Nil
3	LEDStreet Light 42 W LED (Philips) + Housing	1 No	24 Months
4	MPPT Charge Controller 20 AMP - Raimond	1 No	24 Months
5	PIR Censer	1 No	24 Months
6	Battery (45Ah LiFePo4) -Raimond	1 No	60 Months
7	Installation -civil work, earth cutting, concrete	1 Set	Nil

Mechanical Characteristics of Solar panel	Details		80wp Panel + Housing	110wp Panel + Housing
	Weight		10 kg	12.6 kg
Dimension (Height x Width x Thickness)		780 X 665 X 90 mm	985 X 665 X 90 mm	
Mechanical Characteristics of 6 mtr GI Tubular Pole	OD	Weight	Thickness	
	76 mm	18 kg	2 mm	
Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	36AhLiFePo4	12.8 Volt	24 Nos.	3.2 Volt, 6 Ah
	45AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 15 Ah

Solar lighting systems are controlled by built-in intelligence which no manual operation, making them safe and economical. It is a self-powered unit, this light does not depend on Grid to power it. A solar lighting system completely removes from theft. Each lamp is independent and free from any cable connection.



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Installation of Solar Street Light:

A. (Pole Description : 6Mtr76 OD GI Tubular Pole without Base Plate & Foundation Bolt)

- 1) Appropriate installation site is to be chosen where there is no inclination on the ground level & the top portion of the street light direct access to the sun light.
- 2) To install solar street light first have to dig soil 450mm/450mm & depth 600mm to 700mm in the selected empty space.
- 3) After digging the soil have to finish PCC work inside the hole.
- 4) The concrete foundation is conducted in 450mm/450mm with a 600mm to 750mm depth to be required for the installation of street light.
- 5) Solar panel support to the structure by bolts and connect light to the panel at the adjacent height of pole.
- 6) Lifting of 6 mtr. Pole manually & fixing of the pole inside the round base part of the ground.
- 7) Pouring of the mixture of sand, stone chips & cement accurately proportionate for the foundation build up with a 300 mm round base is to be formed.
- 8) Module facing should be true south & latitude 22.57°N, 88.36°E.
- 9) System must not place under HV(High Voltage) line & shadow area.
- 10) During the solidification process of concrete water should be poured regularly in general 3 to 5 days.

B. (Pole Description : 7Mtr Octagonal Pole, Bottom Dia 100 mm & Top Dia 65 mm with Base Plate 200mm/200 mm & Foundation Bolt 20mm x 450 x 4 Nos.)

- 1) To install Solar Street Light, first select the proper empty space where there is no electric high-tension wire and no shade of trees.
- 2) To install solar street light first have to dig soil 750mm/750mm & depth 900mm in the selected empty space.
- 3) After digging the soil have to finish PCC work.
- 4) To make a proper foundation base, a mesh of 700 mm long and 700 mm wide should be made with 10 mm rod.
- 5) The foundation column should be made of 12mm rod and column size would be 300mm/300mm and height would be 300mm from the ground level.
- 6) To erect the Solar Street Light pole, the 4 foundation bolts (size: 20 mm x 450 mm x 4 Nos.) used, those bolts should be fastened to the cage with the body according to the measurement of the sitting base plate
- 7) To make a Street Light foundation sand, cement and stone chips should be used in quantity and proportion.
- 8) Casting 2 parts that need to be done :
 - a) First the bottom of the foundation will be cast
 - b) Second the structure of the foundation with the help of cages Measurement of column casting will be 400 mm/400 mm
- 9) During the solidification process of concrete water should be poured regularly in general 3 to 5 days.





24 Watt Mini High Mast Triple Arms (Model - H)



30 Watt Mini High Mast Triple Arms (Model - I)

Product Description

Price (24 Watt Triple Arms) Rs. 54,642 + GST

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 100WP Mono Crystalline - Raimond	3 Nos	25 Years
2	Octa Pole 7mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	Flood Light - 24 W LED (Philips) + Housing	3 Nos	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	3 Nos	24 Months
6	Battery (30Ah LiFePo4) - Raimond	3 Nos	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	3 Set	Nil

Price (30 Watt Triple Arms) Rs. 62,194 + GST

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 125WP Mono Crystalline - Raimond	3 Nos	25 Years
2	Octa Pole 7mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	Flood Light - 30 W LED (Philips) + Housing	3 Nos	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	3 Nos	24 Months
6	Battery (36Ah LiFePo4) - Raimond	3 Nos	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	3 Set	Nil

Mechanical Characteristics of Solar panel	Details		100wp Panel	125wp Panel
	Weight		7 kg	9 kg
	Dimension (Height x Width x Thickness)		985 X 665 X 35 mm	1145 X 665 X 35 mm

Mechanical Characteristics of 7 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	68 kg	135 mm (Bottom Dia) & 70 mm (Top Dia)	3 mm	220mm/220mm/12mm	M 20 x 700 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	30Ah LiFePo4	12.8 Volt	8 Nos.	3.2 Volt, 15 Ah
	36Ah LiFePo4	12.8 Volt	24 Nos.	3.2 Volt, 6 Ah



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42 Watt Mini High Mast Triple Arms (Model - J)



60 Watt Mini High Mast Triple Arms (Model - J-I)

Product Description

Price (42 Watt Triple Arms) Rs. 72,262+GST

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 150WP Mono Crystalline- Raimond	3Nos	25 Years
2	OctaPole 7mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	Flood Light - 42 W LED (Philips) + Housing	3Nos	24 Months
5	MPPT Charge Controller 20 AMP - Raimond	3Nos	24 Months
6	Battery (45Ah LiFePo4) - Raimond	3Nos	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	3Set	Nil

Price (60 Watt Triple Arms) Rs. 84,849+GST

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 180WP Mono Crystalline - Raimond	3 Nos	25 Years
2	OctaPole 7mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 60 W LED (Philips) + Housing	3Nos	24 Months
5	MPPT Charge Controller 25 AMP - Raimond	3Nos	24 Months
6	Battery (60Ah LiFePo4) - Raimond	3Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	3 Set	Nil

Mechanical Characteristics of Solar panel	Details		
	150wp Panel	180wp Panel	
	Weight	11 kg	15 kg
Dimension (Height x Width x Thickness)	1490 X 665 X 35 mm	1510 X 675 X 35 mm	

Mechanical Characteristics of 7 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	68 kg	135 mm (Bottom Dia) & 70 mm (Top Dia)	3 mm	220mm/220mm/12mm	M 20 x 700 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	45AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 15 Ah
	60AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 20 Ah

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72 Watt Mini High Mast Triple Arms (Model - J - II)

Product Description

72 Watt Triple Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 200WP Mono Crystalline -Raimond	3 Nos.	25 Years
2	Octa Pole 7 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos.	Nil
4	Flood Light 72W LED(Philips)+Housing (Stand Loon)	3 Set	24 Months
5	MPPT Charge Controller 30 AMP - Raimond	3 Nos.	24 Months
6	Battery (72 Ah LiFePo4) - Raimond/Okaya	3 Nos.	60 Months
7	Battery Box & Setting Accessories	1 Set	Nil
8	Wire, Cable & Accessories	3 Set	Nil

Mechanical Characteristics of 200 wp 12 volt Solar Panel	
Details	200wp 12 volt Panel
Weight	17 kg
Dimension (Width X Height X Thickness)	1530 x 675 x 35 mm

Mechanical Characteristics of LiFePo4 Battery			
Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
75 LiFePo4	12.8 Volt	20 Nos.	3.2 Volt, 15 Ah

INSTALLATION DESCRIPTION OF SOLAR MINI HIGH MAST

Installation of Solar Mini High Mast

- A. (Pole Description : 7 Mtr Octagonal Pole, Bottom Dia 135 mm & Top Dia 70mm with Base Plate 220mm/220mm & Foundation Bolt 20mm x 700mm x 4 Nos.)
- To install Solar Mini High Mast, first select the proper empty space where there is no electric high-tension wire and no shade of trees.
 - Dig a hole 900 mm long, 900 mm wide and 900 mm depth to prepare the foundation of the Mini High Mast.
 - To make a proper foundation base, a mesh of 800 mm long and 800 mm wide should be made with 10 mm rod.
 - The foundation column should be made of 12mm rod and with collum size would be 400 mm/400 mm and height would be 450mm from the ground level.
 - To erect the Mini High Mast pole, the 4 foundation bolts (size: 20 mm x 700 mm x 4 Nos.) used, those bolts should be fastened to the cage with the body according to the measurement of the sitting base plate (size: 220 mm/220 mm) of the Mini High Mast.
 - To make a Mini High Mast foundation sand, cement and stone chips should be used in quantity and proportion.
 - Casting 2 parts that need to be done :
 - First the bottom of the foundation will be cast
 - Second the structure of the foundation with the help of cages
Measurement of column casting will be 400 mm/400 mm
 - The foundation column will be at least 450 mm above the ground surface and the foundation bolts will be 75mm - 100 mm clear from the foundation top level.
 - During the solidification process of concrete water should be poured regularly in general 3 to 5 days.



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24 Watt High Mast Four Arms (Model - L)



30 Watt High Mast Four Arms (Model - M)

Product Description

24 Watt Four Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 100WP Mono Crystalline - Raimond	4Nos	25 Years
2	OctaPole 9 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 24 W LED (Philips) + Housing	4Set	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	4Nos	24 Months
6	Battery (30Ah LiFePo4) - Raimond	4Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	4Set	Nil

30 Watt Four Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 125WP Mono Crystalline - Raimond	4 Nos	25 Years
2	OctaPole 9 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 30 W LED (Philips) + Housing	4 Set	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	4 Nos	24 Months
6	Battery (36Ah LiFePo4) - Raimond	4Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	4 Set	Nil

Mechanical Characteristics of Solar panel	Details		100wp Panel	125wp Panel
	Weight		7 kg	9 kg
	Dimension (Height x Width x Thickness)		985 X 665 X 35 mm	1145 X 665 X 35 mm

Mechanical Characteristics of 9mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	103kg	200 mm (Bottom Dia) & 100 mm (Top Dia)	3 mm	300mm/300mm/16mm	M 24 x 750 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	30Ah LiFePo4	12.8 Volt	8 Nos.	3.2 Volt, 15 Ah
	36Ah LiFePo4	12.8 Volt	24 Nos.	3.2 Volt, 6 Ah





42 Watt High Mast Four Arms (Model - N)



60 Watt High Mast Four Arms (Model - N-I)

Product Description

24 Watt Four Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 150WP Mono Crystalline - Raimond	4Nos	25 Years
2	Octa Pole 9 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight- 42 W LED (Philips) + Housing	4Set	24 Months
5	MPPT Charge Controller 20 AMP - Raimond	4Nos	24 Months
6	Battery (45Ah LiFePo4) - Raimond	4Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	4Set	Nil

60 Watt Four Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 180WP Mono Crystalline - Raimond	4 Nos	25 Years
2	Octa Pole 9 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 60 W LED (Philips) + Housing	4 Set	24 Months
5	MPPT Charge Controller 25 AMP - Raimond	4 Nos	24 Months
6	Battery (60Ah LiFePo4) - Raimond	4Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	4 Set	Nil

Mechanical Characteristics of Solar panel	Details		
	Weight	150wp Panel 11 kg	180wp Panel 15 kg
	Dimension (Height x Width x Thickness)	1490 X 665 X 35 mm	1510 X 675 X 35 mm

Mechanical Characteristics of 9 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	103 kg	200 mm (Bottom Dia) & 100 mm (Top Dia)	3 mm	300mm/300mm/16mm	M 24 x 750 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	45AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 15 Ah
	60AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 20 Ah



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72 Watt High Mast Four Arms (Model - K-I)



100 Watt High Mast Four Arms (Model - K-II)

Product Description

72 Watt Four Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 200WP Mono Crystalline- Raimond	4Nos	25 Years
2	OctaPole 10mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	6 Nos	Nil
4	FloodLight - 72 W LED (Philips) + Housing	4Set	24 Months
5	MPPT Charge Controller 30 AMP - Raimond	4Nos	24 Months
6	Battery (75Ah LiFePo4) - Raimond	4Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	4Set	Nil

100 Watt Four Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 250WP Mono Crystalline - Raimond	4 Nos	25 Years
2	OctaPole 10mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	6 Nos	Nil
4	FloodLight - 100 W LED (Philips) + Housing	4 Set	24 Months
5	MPPT Charge Controller 40 AMP - Raimond	4 Nos	24 Months
6	Battery (100Ah LiFePo4) - Raimond	4Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	4 Set	Nil

Mechanical Characteristics of Solar panel	Details		200wp, 12 volt Solar Panel	250wp, 12 volt Solar Panel
	Weight		17 kg	19 kg
	Dimension (Height x Width x Thickness)		1530 X 675 X 35 mm	1655 X 990 X 35 mm

Mechanical Characteristics of 10 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	172kg	310 mm (Bottom Dia) & 140 mm (Top Dia)	3 mm	310mm/470mm/20mm	M 24 x 750 x 6 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	75AhLiFePo4	12.8 Volt	20 Nos.	3.2 Volt, 15 Ah
	100AhLiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 100 Ah

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24 Watt High Mast Five Arms (Model - N-IV)



30 Watt High Mast Five Arms (Model - N-V)

Product Description

24 Watt Five Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 100WP Mono Crystalline- Raimond	5Nos	25 Years
2	Octa Pole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 24 W LED (Philips) + Housing	5Set	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	5Nos	24 Months
6	Battery (30Ah LiFePo4) - Raimond	5Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	5Set	Nil

30 Watt Five Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 125WP Mono Crystalline- Raimond	5 Nos	25 Years
2	Octa Pole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	Flood Light - 30 W LED (Philips) + Housing	5 Set	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	5 Nos	24 Months
6	Battery (36Ah LiFePo4) - Raimond	5Nos	60 Months
7	Battery Box & Setting Accessories	1No	Nil
8	Wire, Cable & Accessories	5 Set	Nil

Mechanical Characteristics of Solar panel	Details		100wp, Panel	125wp Panel
	Weight		7 kg	9 kg
	Dimension (Height x Width x Thickness)		985 X 665 X 35 mm	1145 X 665 X 35 mm

Mechanical Characteristics of 9 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	103kg	200 mm (Bottom Dia) & 100 mm (Top Dia)	3 mm	300mm/300mm/16mm	M 24 x 750 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	30AhLiFePo4	12.8 Volt	8 Nos.	3.2 Volt, 15 Ah
	36AhLiFePo4	12.8 Volt	24 Nos.	3.2 Volt, 6 Ah



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42 Watt High Mast Five Arms (Model - N-VI)



60 Watt High Mast Five Arms (Model - N-VII)

Product Description

42 Watt Five Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 150WP Mono Crystalline - Raimond	5Nos	25 Years
2	OctaPole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 42 W LED (Philips) + Housing	5 Set	24 Months
5	MPPT Charge Controller 20 AMP - Raimond	5 Nos	24 Months
6	Battery (45Ah LiFePo4) - Raimond	5Nos	60 Months
7	Battery Box & Setting Accessories	1 No	Nil
8	Wire, Cable & Accessories	5Set	Nil

60 Watt Five Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 180WP Mono Crystalline - Raimond	5 Nos	25 Years
2	OctaPole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 60 W LED (Philips) + Housing	5 Set	24 Months
5	MPPT Charge Controller 25 AMP - Raimond	5 Nos	24 Months
6	Battery (60Ah LiFePo4) - Raimond	5Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	5 Set	Nil

Mechanical Characteristics of Solar panel	Details		150wp Panel	180wp Panel
	Weight		11 kg	15 kg
	Dimension (Height x Width x Thickness)		1490X 665 X 35 mm	1510 X 675 X 35 mm

Mechanical Characteristics of 9 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	103kg	200 mm (Bottom Dia) & 100 mm (Top Dia)	3 mm	300mm/300mm/16mm	M 24 x 750 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	24AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 15 Ah
	60AhLiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 6 Ah

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72 Watt High Mast Five Arms (Model - N-VIII)



100 Watt High Mast Five Arms (Model - N-IX)

Product Description

72 Watt Five Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 200WP Mono Crystalline - Raimond	5Nos	25 Years
2	Octa Pole 10mtr + Panel Structure + Light Arm	1No	Nil
3	Foundation Bolt with Nut & Washer	6Nos	Nil
4	Flood Light, 72 W LED (Philips) + Housing	5Set	24 Months
5	MPPT ChargeController 30 AMP - Raimond	5Nos	24 Months
6	Battery (72Ah LiFePo4) - Raimond	5Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	5Set	Nil

100 Watt Five Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 250WP Mono Crystalline - Raimond	5 Nos	25 Years
2	Octa Pole 10mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	6 Nos	Nil
4	Flood Light, 100 W LED (Philips) + Housing	5 Set	24 Months
5	MPPT Charge Controller 40 AMP - Raimond	5 Nos	24 Months
6	Battery (100Ah LiFePo4) - Raimond	5 Nos	60 Months
7	Battery Box & Setting Accessories	2 Nos	Nil
8	Wire, Cable & Accessories	5 Set	Nil

Mechanical Characteristics of Solar panel	Details		
	200wp, 12 volt Solar Panel	250wp 12 volt Solar Panel	
	Weight	17 kg	19 kg
Dimension (Height x Width x Thickness)	1530 X 675 X 35 mm		1655 X 990 X 35 mm

Mechanical Characteristics of 10mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	172kg	310 mm (Bottom Dia) & 140 mm (Top Dia)	3 mm	310mm/470mm/20mm	M 24 x 750 x 6 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	72AhLiFePo4	12.8 Volt	20 Nos.	3.2 Volt, 15 Ah
	100AhLiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 100Ah

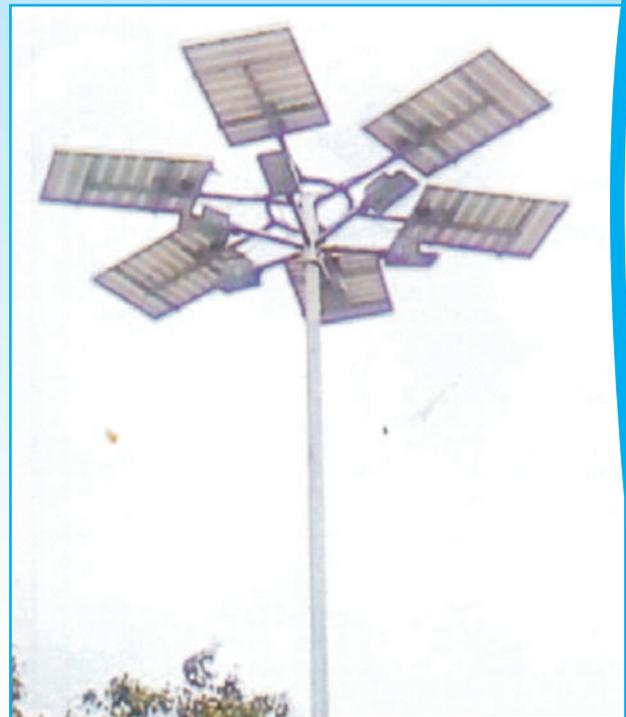


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24 Watt High Mast Six Arms (Model - N-II)



30 Watt High Mast Six Arms (Model - O)

Product Description

42 Watt Six Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 100WP Mono Crystalline - Raimond	6Nos	25 Years
2	OctaPole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 42 W LED (Philips) + Housing	6Set	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	6Nos	24 Months
6	Battery (30 Ah LiFePo4) - Raimond	6Nos	60 Months
7	Battery Box & Setting Accessories	1Nos	Nil
8	Wire, Cable & Accessories	6Set	Nil

30 Watt Six Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 125WP Mono Crystalline - Raimond	6 Nos	25 Years
2	OctaPole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 30 W LED (Philips) + Housing	6 Set	24 Months
5	MPPT Charge Controller 15 AMP - Raimond	6 Nos	24 Months
6	Battery (36Ah LiFePo4) - Raimond	6Nos	60 Months
7	Battery Box & Setting Accessories	1Nos	Nil
8	Wire, Cable & Accessories	6 Set	Nil

Mechanical Characteristics of Solar panel	Details		100wp Panel	125wp Panel
	Weight		7 kg	9 kg
	Dimension (Height x Width x Thickness)		985 X 665 X 35 mm	1145 X 665 X 35 mm

Mechanical Characteristics of 9 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	103kg	200 mm (Bottom Dia) & 100 mm (Top Dia)	3 mm	300mm/300mm/16mm	M 24 x 750 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	30Ah LiFePo4	12.8 Volt	8 Nos.	3.2 Volt, 15 Ah
	36Ah LiFePo4	12.8 Volt	24 Nos.	3.2 Volt, 6 Ah

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42 Watt High Mast Six Arms (Model - P)



60 Watt High Mast Six Arms (Model - P-X)

Product Description

42 Watt Six Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 150WP Mono Crystalline - Raimond	6Nos	25 Years
2	OctaPole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 42 W LED (Philips) + Housing	6Set	24 Months
5	MPPT Charge Controller 20 AMP - Raimond	6Nos	24 Months
6	Battery (45Ah LiFePo4) - Raimond	6Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	6Set	Nil

60 Watt Six Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 180WP Mono Crystalline - Raimond	6 Nos	25 Years
2	OctaPole 9mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	4 Nos	Nil
4	FloodLight - 60 W LED (Philips) + Housing	6 Set	24 Months
5	MPPT Charge Controller 25 AMP - Raimond	6 Nos	24 Months
6	Battery (60Ah LiFePo4) - Raimond	6Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	6 Set	Nil

Mechanical Characteristics of Solar panel	Details		150wp Panel	180wp Panel
	Weight		11 kg	15 kg
	Dimension (Height x Width x Thickness)		1490 X 665 X 35 mm	1510 X 675 X 35 mm

Mechanical Characteristics of 9 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	103kg	200 mm (Bottom Dia) & 100 mm (Top Dia)	3 mm	300mm/300mm/16mm	M 24 x 750 x 4 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	45Ah LiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 15 Ah
	60Ah LiFePo4	12.8 Volt	12 Nos.	3.2 Volt, 20 Ah



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72 Watt High Mast Six Arms (Model - P-Y)



100 Watt High Mast Six Arms (Model - P-Z)

Product Description

72 Watt Six Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 200WP Mono Crystalline- Raimond	6Nos	25 Years
2	OctaPole 10mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	6 Nos	Nil
4	Flood Light - 72 W LED (Philips) + Housing	6Set	24 Months
5	MPPT Charge Controller 30 AMP - Raimond	6Nos	24 Months
6	Battery (75Ah LiFePo4) - Raimond	6Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	6Set	Nil

100 Watt Six Arms

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 250WP Mono Crystalline- Raimond	6 Nos	25 Years
2	Octa Pole 10 mtr + Panel Structure + Light Arm	1 No	Nil
3	Foundation Bolt with Nut & Washer	6 Nos	Nil
4	Flood Light - 100 W LED (Philips) + Housing	6 Set	24 Months
5	MPPT Charge Controller 40 AMP - Raimond	6 Nos	24 Months
6	Battery (100Ah LiFePo4) - Raimond	6Nos	60 Months
7	Battery Box & Setting Accessories	2Nos	Nil
8	Wire, Cable & Accessories	6 Set	Nil

Mechanical Characteristics of Solar panel	Details		200wp, 12 volt Solar Panel	250wp, 12 volt Solar Panel
	Weight		17 kg	19 kg
	Dimension (Height x Width x Thickness)		1530 X 675 X 35 mm	1655 X 990 X 35 mm

Mechanical Characteristics of 10 mtr Octagonal Pole	Weight	OD	Thickness	Base Plate	Foundation Bolt
	172 kg	310 mm (Bottom Dia) & 140 mm (Top Dia)	3 mm	310mm/470mm/20mm	M 24 x 750 x 6 Nos.

Mechanical Characteristics of LiFePo4 Battery	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	75AhLiFePo4	12.8 Volt	20 Nos.	3.2 Volt, 15 Ah
	100AhLiFePo4	12.8 Volt	4 Nos.	3.2 Volt, 100 Ah

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Installation of Solar High Mast :

A. (Pole Description:9Mtr Octagonal Pole, Bottom Dia 200mm & Top Dia 100mm with Base Plate300mm/ 300mm/16mm& FoundationBolt 24mm x 750mm x 4 Nos.)

- 1) To install Solar High Mast, first select the proper empty space where there is no electric high- tension wire and no shade of trees.
- 2) To install solar High Mast first have to dig soil 1200mm/1200mm & depth 1200mm in the selected empty space.
- 3) After digging the soil have to finish PCC work.
- 4) To make a proper foundation base, a mesh of 1100 mm long and 1100 mm wide should be made with 12 mm rod.
- 5) The foundation column should be made of 16mm rod and collum size would be 450mm/450mm and height would be 450mm from the ground level.
- 6) To erect the Octagonal pole, the 4 foundation bolts (size: 24 mm x 750 mm x 4 Nos.) used, those bolts should be fastened to the cage with the body according to the measurement of the sitting base plate
- 7) To make a High Mast foundation sand, cement and stone chips should be used in quantity and proportion.
- 8) Casting 2 parts that need to be done :
 - a) First the bottom of the foundation will be cast
 - b) Second the structure of the foundation with the help of cages
Measurement of column casting will be 450 mm/450 mm
- 9) During the solidification process of concrete water should be poured regularly in general 3 to 5 days.

B. (Pole Description:10Mtr Octagonal Pole, Bottom Dia 310mm & Top Dia 140mm with Base Plate 310mm/470mm/20mm& FoundationBolt 24mm x 750mm x 6 Nos.)

- 1) To install Solar High Mast, first select the proper empty space where there is no electric high- tension wire and no shade of trees.
- 2) To install solar High Mast first have to dig soil 1500mm/1500mm & depth 1500mm in the selected empty space.
- 3) After digging the soil have to finish PCC work.
- 4) To make a proper foundation base, a mesh of 1400 mm long and 1400 mm wide should be made with 12 mm rod.
- 5) The foundation column should be made of 16mm rod and collum size would be 600mm/600mm and height would be 450mm from the ground level.
- 6) To erect the Octagonal pole, the 4 foundation bolts (size: 24 mm x 750 mm x 4 Nos.) used, those bolts should be fastened to the cage with the body according to the measurement of the sitting base plate
- 7) To make a High Mast foundation sand, cement and stone chips should be used in quantity and proportion.
- 8) Casting 2 parts that need to be done :
 - a) First the bottom of the foundation will be cast
 - b) Second the structure of the foundation with the help of cages
Measurement of column casting will be 450 mm/450 mm
- 9) During the solidification process of concrete water should be poured regularly in general 3 to 5 days.

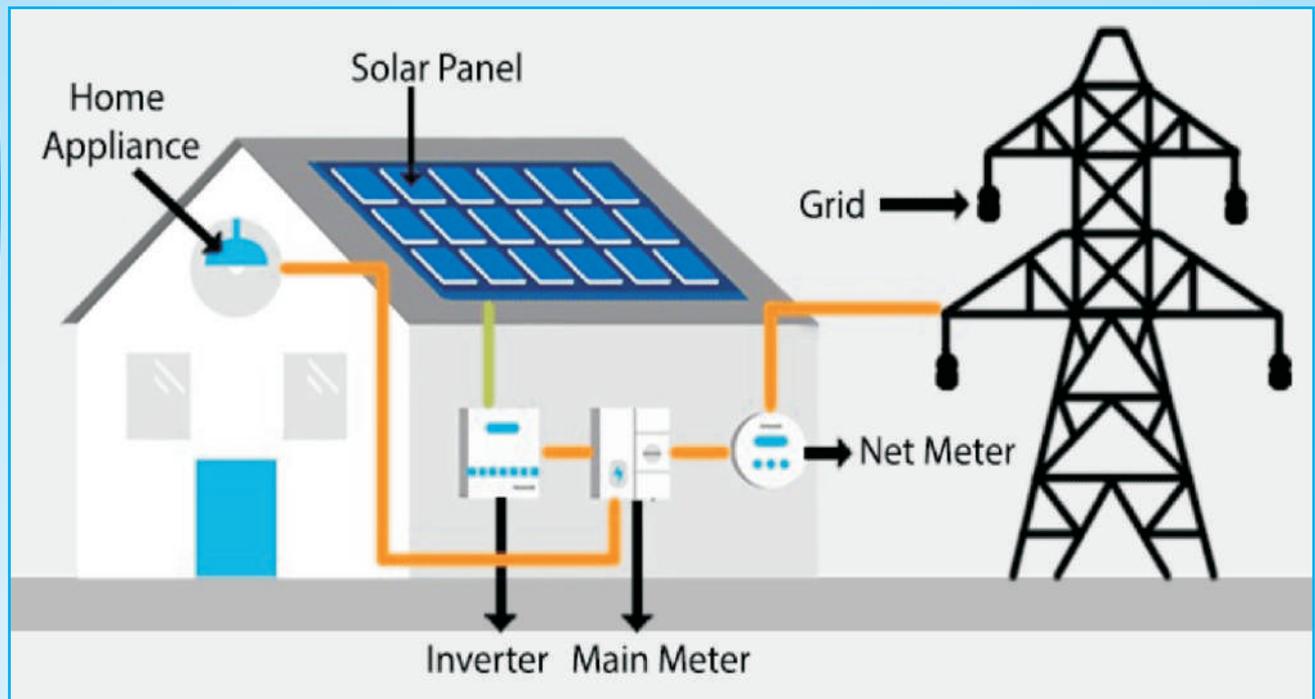


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SI	Materials Description
1	<p>Module – 50 wp/75 wp/100 wp/125 wp/150 wp /180 wp/200 wp/250 wp (12 volt)</p> <ol style="list-style-type: none"> The PV Module shall contain Mono Crystalline black silicon solar cells and must have MNREcertified The power output of the modules under STC would be a minimum 50 wp/75 wp/100 wp/125 wp/150 wp /180 wp/200 wp/250 wp at a load voltage of 20 (+/-) 0.2 V The open circuit voltage of the PV modules under STC would be 20 Volts. The module efficiency would be 14.5% A bird spike shall be provided to avoid bird sitting on the solar module at the highest point of the module structure. SPV module shall be highly reliable lightweight and shall be a service of life of more than 25 years. It shall have a limited power loss of not more than 10% of normal output at the end of 10 years and not more than 20% at the end of 25 years. The solar module shall be able to withstand the following environment at conditions normally encountered at the site – Temp. extremes ranging from 10°C to 85°C, wind load – 200 km/h, Max mean heavy rainfall of 40mm, Humidity level up to 95% Strip must contain the followings – Manufacturer name, model number, year of make.
2	<p>Lithium Ferro Phosphate Battery – 15Ah/20Ah/30Ah/36Ah/45Ah/60Ah/75Ah/100Ah (12.8 volt)</p> <ol style="list-style-type: none"> Lithium Ferro Phosphate Battery shall contain cathode materials and a graphitic carbon electrode with a metallic backing as the anode. The energy density of LiFePO₄ is lower than that of lithium cobalt oxide (LiCoO₂) and also has a lower operating voltage. Specific energy : 90 – 160 Wh Time durability : 5 years Nominal cell voltage : 3.2 volt
3	<p>Dusk to Dawn MPPT Charge Controller – 10 AMP/15 AMP/20 AMP/25 AMP/30 AMP/40 AMP</p> <ol style="list-style-type: none"> Battery over charge cut off : 20 V Battery deep discharge cut off : 23.5 V Short circuit protection inbuilt with the system Protections against battery reverse polarity inbuilt with the system Load re-connects facility inbuilt with the system
4	<p>Luminary -12 watt/15 watt/18 watt/24 watt/30 watt/42 watt/60 watt/72 watt/100 watt LED based</p> <ol style="list-style-type: none"> LED Luminaries must be to prevent water seepage and entry of insects. The light source will be of white LED type. The luminous performance of LEDs used. Use of LEDs, which emit ultraviolet light must be avoided. The light output should remain constant with variations in the battery voltages. The make model number and technical characteristics of LED lights should be furnished.
5	<p>Wire, Cable & Accessories</p> <p>To connect module to battery and light have to use 2.5mm x 2 core cable 8 mtr (each light purpose). Cable shall contain :</p> <ol style="list-style-type: none"> Capacity : According to requirements for Solar PV System Rated Voltage : 0.6/1Kva AC Rated DC Voltage : 1.5 K.V Working Voltage : DC 1000V Insulation Resistance : 1000M SI-Km Ambient : 40°C – +90°C
6	<p>Pole 6 Mtr/7 Mtr/9 Mtr/10 Mtr with module structure& Luminate bkt</p> <ol style="list-style-type: none"> A corrosion resistant metallic frame structure must be fixed on the pole to hold the SPV module. The frame structure must have provision to adjust its angle of inclination to the horizontal between 0 & 45, so that the module can be oriented at the specified tilt angel. Light arms have to be prepared in such a way that lights can be emitted across a wide area. <ol style="list-style-type: none"> Street Light (Tubular Pole/Round Pole)- Pole Height 6 mtr, Dia - Top to Bottom 76 mm, Thickness 2mm with grouting facility. Street Light (Octagonal Pole) - Pole Height 7 mtr, Bottom Dia : 100 mm, Top Dia : 65 mm, Thickness 3 mm and Base Plate : 200mm/200mm/12mm& Foundation Bolt : 20 mm x 450 mm x 4 Nos. Mini High Mast (Octagonal Pole) - Pole height 7 mtr, Bottom Dia : 125 mm, Top Dia : 70 mm, Thickness : 3 mm and Base Plate : 220/220mm/12mm& Foundation Bolt : 20 mm x 700 mm x 4Nos. High Mast (Octagonal Pole) - Pole Height 9 mtr, Bottom Dia: 200 mm, Top Dia : 100 mm, Thickness 3 mm and Base Plate 300/300/16mm & Foundation Bolt : 24 mm x 750 mm x 4 Nos High Mast (Octagonal Pole) - Pole Height 10 mtr, Bottom Dia : 310 mm, Top Dia : 140mm, Thickness 3 mm and Base Plate 310/470/20mm & Foundation Bolt : 24 mm x 750 mm x 6 Nos





5 kwp Solar On-Grid System (Model - S - I)
10 kwp Solar On-Grid System (Model - S - II)

Product Description

5 Kwp On-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	10 Nos	25 Years
2	Solar Grid-Tie Inverter 5 kva, 3 Phase -Power One	1 No.	60 Months
3	Solar Panel Mounting Structure	1 No.	
4	ACDB & DCDB	2 Nos.	
5	10 mm Cable Single Core (ISI Standard)	70 mtr	
6	6 mm Cable Single Core (ISI Standard)	30 mtr	
7	Earthing Connection	1 Set	
8	Thunder Arrester	1 Set	

10 Kwp On-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	19Nos	25 Years
2	Solar Grid-Tie Inverter 10 kva, 3Phase -Power One	1 No	60 Months
3	Solar Panel Mounting Structure	1 No	
4	ACDB & DCDB	2 Nos	
5	10 mm Cable Single Core (ISI Standard)	80 mtr	
6	6 mm Cable Single Core (ISI Standard)	50 mtr	
7	Earthing Connection	1Set	
8	Thunder Arrester	1Set	

Mechanical Characteristics of 24 volt Solar panel	Details		545wp, 24 Solar Panel	
		Weight	32 kg	
	Dimension (Width x Height x Thickness)	2279 X 1134 X 35 mm		

Mechanical Characteristics 5 KVA & 10 KVA 3 Phase GTI	Max Efficiency	Euro Efficiency	MPPT Efficiency	Protection
	98.2%	97.3%	> 99.50%	IP 65

KWP	Daily Electric Generation (Approx)	Monthly Electric Generation (Approx)	Monthly Bill Saving Rs. (Approx)	Yearly Bill Saving Rs. (Approx)	Within 3-4 Years total Cost will be withdrawal
5 kwp	23 Unit	690 Unit	6,900.00	82,800.00	3,31,000.00
10 kwp	46 Unit	1380 Unit	13,800.00	1,65,600.00	6,62,400.00

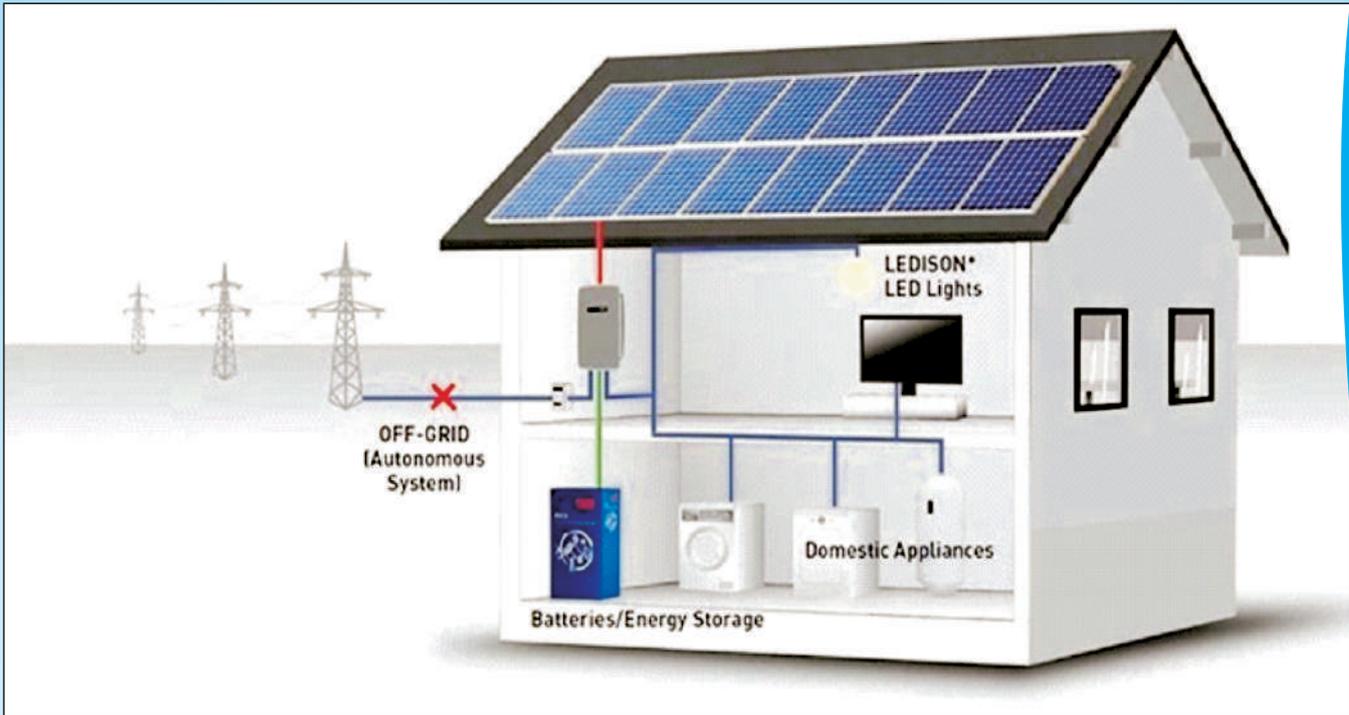
On-Grid solar systems generate power using a solar power system and are directly connected to the utility power grid. These systems send excess power generated by the solar power system to the utility grid and consumers get compensated for the extra power feedback.

NB : Only Commercial 3 Phase meter holder can apply 5kwp & above 'On-Grid' system.



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**15 kwp Solar On-Grid System (Model – S-III)
10 kwp Solar On-Grid System (Model – S-IV)**

Product Description

15 Kwp On-Grid			
No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline - Raimond	28 Nos	25 Years
2	Solar Grid -Tie Inverter 15kva, 3 Phase -Power One	1 No	60 Months
3	Solar Panel Mounting Structure	1 No	
4	ACDB & DCDB	2 Nos	
5	10 mm Cable Single Core (ISI Standard)	90 mtr	
6	6 mm Cable Single Core (ISI Standard)	70 mtr	
7	Earthing Connection	1 No	
8	Thunder Arrester	1 No	

20 Kwp On-Grid			
No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline - Raimond	38 Nos	25 Years
2	Solar Grid -Tie Inverter 20kva, 3 Phase -Power One	1 No	60 Months
3	Solar Panel Mounting Structure	1 No	
4	ACDB & DCDB	2 Nos	
5	16 mm Cable Single Core (ISI Standard)	110mtr	
6	6 mm Cable Single Core (ISI Standard)	90 mtr	
7	Earthing Connection	1No	
8	Thunder Arrester	2 Nos	

Mechanical Characteristics of 24 volt Solar panel	Details	
	Weight	545wp, 24 volt Solar Panel 32 kg
	Dimension (Height x Width x Thickness)	2279 X 1134 X 35 mm

Mechanical Characteristics 15 KVA & 20 KVA 3 Phase GTI	Max Efficiency	Euro Efficiency	MPPT Efficiency	Protection
	98.2%	97.3%	> 99.50%	IP 65

KWP	Daily Electric Generation (Approx)	Monthly Electric Generation (Approx)	Monthly Bill Saving Rs. (Approx)	Yearly Bill Saving Rs. (Approx)	Within 3 Years total Cost will be withdrawal
15 kwp	69 Unit	2070 Unit	20,700.00	2,48,400.00	7,45,200.00
20 kwp	92 Unit	2760 Unit	27,600.00	3,31,200.00	9,93,600.00

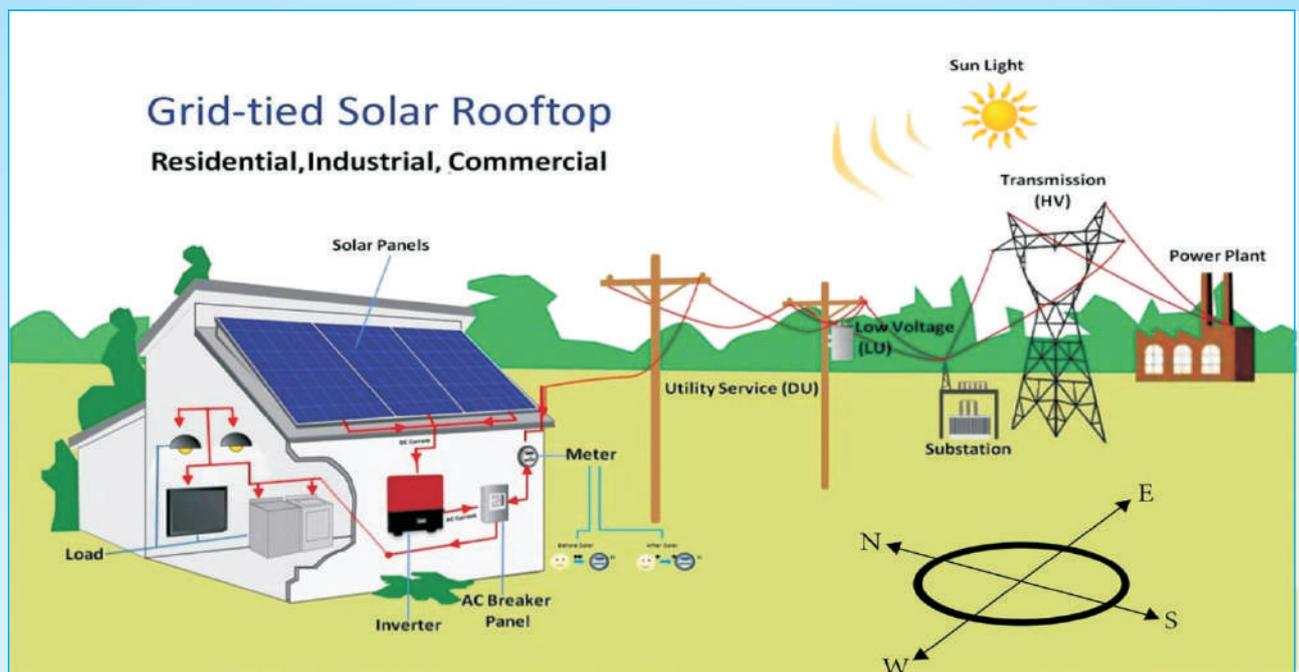
On-Grid solar systems generate power using a solar power system and are directly connected to the utility power grid. These systems send excess power generated by the solar power system to the utility grid and consumers get compensated for the extra power feedback.

NB : Only Commercial 3 Phase meter holder can apply 5kwp & above 'On-Grid' system.

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25 kwp Solar On-Grid System (Model - S-V)
33 kwp Solar On-Grid System (Model - S-V-I)

Product Description

25 Kwp On-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	46Nos	25 Years
2	Solar Grid-Tie Inverter 25kva, 3 Phase-Power One	1 No	60 Months
3	Solar Panel Mounting Structure	1 No	
4	ACDB & DCDB	2 Nos	
5	16 mm Cable Single Core (ISI Standard)	120mtr	
6	6 mm Cable Single Core (ISI Standard)	120mtr	
7	Earthing Connection	1No	
8	Thunder Arrester	2Nos	

33 Kwp On-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	62Nos	25 Years
2	Solar Grid-Tie Inverter 33kva, 3 Phase -Power One	1 No	60 Months
3	Solar Panel Mounting Structure	1 No	
4	ACDB & DCDB	2 Nos	
5	16 mm Cable Single Core (ISI Standard)	130mtr	
6	10 mm Cable Single Core (ISI Standard)	150mtr	
7	Earthing Connection	1No	
8	Thunder Arrester	2 Nos	

Mechanical Characteristics of 24 volt Solar panel

Details	545wp, 24 volt Solar Panel
Weight	32 kg
Dimension (Height x Width x Thickness)	2279 X 1134 X 35 mm

Mechanical Characteristics 25 KVA & 33 KVA 3 Phase GTI

Max Efficiency	Euro Efficiency	MPPT Efficiency	Protection
98.2%	97.3%	> 99.50%	IP 65

KWP	Daily Electric Generation (Approx)	Monthly Electric Generation (Approx)	Monthly Bill Saving Rs. (Approx)	Yearly Bill Saving Rs. (Approx)	Within 3 Years total Cost will be withdrawal
25 kwp	115 Unit	3450 Unit	34,500.00	4,14,000.00	12,42,000.00
33 kwp	151.8 Unit	4554 Unit	45,540.00	5,46,480.00	16,39,440.00

On-Grid solar systems generate power using a solar power system and are directly connected to the utility power grid. These systems send excess power generated by the solar power system to the utility grid and consumers get compensated for the extra power feedback.

NB : Only Commercial 3 Phase meter holder can apply 5kwp & above 'On-Grid' system.



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50 kwp Solar On-Grid System (Model – S-VI)

Product Description

50 kwp On-Grid			
No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	92Nos	25 Years
2	Solar Grid-Tie Inverter 50kva, 3 Phase-Power One	1 No	60 Months
3	Solar Panel Mounting Structure	1 No	
4	ACDB & DCDB	2 Nos	
5	20 mm Cable Single Core (ISI Standard)	150mtr	
6	10 mm Cable Single Core (ISI Standard)	220mtr	
7	Earthing Connection	1No	
8	Thunder Arrester	2 Nos	

Mechanical Characteristics of 545 wp, 24 volt Solar Panel	
Details	545wp Panel
Weight	32 kg
Dimension (Height x Width x Thickness)	2279 X 1134 X 35 mm

KWP	Daily Electric Generation(Approx)	Monthly Electric Generation (Approx)	Monthly Bill Saving Rs. (Approx)	Yearly Bill Saving Rs. (Approx)
50kwp	230 Unit	6900 Unit	69,000.00	8,28,000.00

BENEFIT OF SOLAR ON-GRID

- Solar On-Grid systems can help you save money on your electricity bills.
- Solar On-Grid systems can increase the value of your homes.
- SolarOn-Grid systems are a great way to reduce your carbon footprint.
- Solar On-grid systems can provide you with backup power in case of a power outage.
- Solar On-Grid systems are low maintenance and have a long lifespan.
- Solar On-Grid systems are a great way to generate renewable energy.
- Solar On-Grid systems can be used to power your home or business.
- Solar On-Grid systems are safe and reliable.
- Solar On-Grid systems are an environmentally friendly option.

Apart from direct benefits there are few indirect benefits :

Utilization of available vacant roof space :-

- Low gestation period
- Lower transmission and distribution losses
- Improvement in the tail-end grid voltage and reduction of system congestion
- Better Management of daytime peak loads by utility

NB : Only Commercial 3 Phase meter holder can apply 5kwp & above 'On-Grid' system.

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1 kwp Solar Off-Grid System (Model -T-I)



1.5 kwp Solar Off-Grid System (Model -T - I - A)

Product Description

1 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	2 Nos	25 Years
2	Lithium Po4 Battery 86 Ah, 25.6 volt -Raimond	1 No	60 Months
3	Solar Inverter 1kva, 24 volt -Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	Change Over Switch (16Ah)	1 No	
6	6mm Cable Single Core (ISI Standard)	40mtr	
7	2.5 mm Cable Single Core (ISI Standard)	10mtr	
8	PVC Switch Board, Switch + Plug	1No	

1.5 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp MonoCrystalline -Raimond	3 Nos	25 Years
2	Lithium Po4 Battery 100 Ah, 25.6 volt-Raimond	1 No	60 Months
3	Solar Inverter 2kva, 24 volt -Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	Change Over Switch (32Ah)	1 No	
6	6 mm Cable Single Core (ISI Standard)	46mtr	
7	2.5 mm Cable Single Core (ISI Standard)	10mtr	
8	PVC Switch Board, Switch + Plug	1No	

Mechanical Characteristics of 24 voltSolar panel	Details	
	Weight	545wp 24 volt Solar Panel 32 kg
	Dimension (Width x Height x Thickness)	2279 X 1134 X 35 mm

Mechanical Characteristics of LiFePo4 Battery	Kwp	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	1 kwp	86AhLiFePo4	25.6 Volt	8 Nos.	3.2 Volt, 86 Ah
	1.5 kwp	100AhLiFePo4	25.6 Volt	8 Nos.	3.2 Volt, 100 Ah

KWP	Daily Electric Generation(Aprox)	Maximum Supply Capacity in wattage
1 kwp	3312 watt (3.31 Unit)	At a time Inverter can supply @ 800 watt Electricity
1.5 kwp	5472 watt (5.47 Unit)	At a time Inverter can supply @ 1600 watt Electricity



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2 kwp Solar Off-Grid System (Model -T - II)



3 kwp Solar Off-Grid System (Model -T - III)

Product Description

2 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	4 Nos	25 Years
2	Lithium Po4 Battery 150 Ah, 25.6 volt -Raimond	1 No	60 Months
3	Solar Inverter 2kva, 24 volt -Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	Change Over Switch (32Ah)	1 No	
6	6mm Cable Single Core (ISI Standard)	50mtr	
7	2.5 mm Cable Single Core (ISI Standard)	10mtr	
8	PVC Switch Board, Switch + Plug	1No	
9	Earthing Connection	1 No	

3 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp MonoCrystalline -Raimond	6 Nos	25 Years
2	Lithium Po4 Battery 1 00 Ah, 48 volt-Raimond	1 No	60 Months
3	Solar Inverter 3kva, 48 volt - Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	Change Over Switch (32Ah)	1 No	
6	6 mm Cable Single Core (ISI Standard)	60mtr	
7	2.5mm Cable Single Core (ISI Standard)	10mtr	
8	PVC Switch Board, Switch + Plug	1No	
9	Earthing Connection	1 No	

Mechanical Characteristics of 24 voltSolar panel	Details	
	Weight	545wp 24 volt Solar Panel 32 kg
	Dimension (Width x Height x Thickness)	2279 X 1134 X 35 mm

Mechanical Characteristics of LiFePo4 Battery	Kwp	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	2 kwp	150AhLiFePo4	25.6 Volt	24 Nos.	3.2 Volt, 50 Ah
	3 kwp	100AhLiFePo4	48 Volt	15 Nos.	3.2 Volt, 100 Ah

KWP	Daily Electric Generation(Approx)	Maximum Supply Capacity in wattage
2 kwp	6624 watt (6.26 Unit)	At a time Inverter can supply @ 1600 watt Electricity
3 kwp	10080 watt (10.08 Unit)	At a time Inverter can supply @ 2600 watt Electricity

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4 kwp Solar Off-Grid System (Model -T-III-A)
5 kwp Solar Off-Grid System (Model -T - IV)

Product Description

4 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	8 Nos	25 Years
2	Lithium Po4 Battery 150 Ah, 48 volt -Raimond	1 No	60 Months
3	Solar Inverter 5kva, 48volt -Raimond	1 No	24Months
4	Solar Panel Mounting Structure	1 No	
5	ACDB & DCDB	2 Nos	
6	Change Over Switch (64Ah)	1 No	
7	10mm Cable Single Core (ISI Standard)	50 mtr	
8	6 mm Cable Single Core (ISI Standard)	30 mtr	
9	2.5 mm Cable Single Core (ISI Standard)	10 mtr	
10	PVC Switch Board, Switch + Plug	1No	
11	Earthing Connection	1No	

5 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp MonoCrystalline -Raimond	10Nos	25 Years
2	Lithium Po4 Battery 200 Ah, 48 volt -Raimond	1 No	60 Months
3	Solar Inverter 5kva, 48volt -Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	ACDB & DCDB	2 Nos	
6	Change Over Switch (64Ah)	1 No	
7	10 mm Cable Single Core (ISI Standard)	70mtr	
8	6 mm Cable Single Core (ISI Standard)	36 mtr	
9	2.5mm Cable Single Core (ISI Standard)	10mtr	
10	PVC Switch Board, Switch + Plug	1No	
11	Earthing Connection	1 No	
12	Thunder Arrester	1 No	

Mechanical Characteristics of 24 voltSolar panel	Details	
	Weight	545wp 24 volt Solar Panel 32 kg
	Dimension (Width x Height x Thickness)	2279 X 1134 X 35 mm

Mechanical Characteristics of LiFePo4 Battery	Kwp	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	4 kwp	150AhLiFePo4	48 Volt	45 Nos.	3.2 Volt, 50 Ah
	5 kwp	200AhLiFePo4	48 Volt	30 Nos.	3.2 Volt, 100 Ah

KWP	Daily Electric Generation (Approx)	Maximum Supply Capacity in wattage
4 kwp	13536 watt (13.53 Unit)	At a time Inverter can supply @ 3800 watt Electricity
5 kwp	16704 watt (16.70 Unit)	At a time Inverter can supply @ 3800 watt Electricity



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7 kwp Solar Off-Grid System (Model -T-V)



10 kwp Solar Off-Grid System (Model -T-VI)

Product Description

7 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp Mono Crystalline -Raimond	13 Nos	25 Years
2	Lithium Po4 Battery 86 Ah, 121.6 volt -Raimond	1 No	60 Months
3	Solar Inverter 7kva, 120 volt-Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	ACDB & DCDB	2 Nos	
6	Change Over Switch (64Ah)	1 No	
7	10mm Cable Single Core (ISI Standard)	70mtr	
8	6 mm Cable Single Core (ISI Standard)	50 mtr	
9	2.5 mm Cable Single Core (ISI Standard)	10mtr	
10	PVC Switch Board, Switch + Plug	1No	
11	Earthing Connection	1 No	
12	Thunder Arrester	1 No	

10 kwp Off-Grid

No	DESCRIPTION OF SCHEME	QTY	Warranty
1	Solar Panel 545wp MonoCrystalline -Raimond	19Nos	25 Years
2	Lithium Po4 Battery 100 Ah, 121.6 volt-Raimond	1 No	60 Months
3	Solar Inverter 10kva, 120 volt - Raimond	1 No	24 Months
4	Solar Panel Mounting Structure	1 No	
5	ACDB & DCDB	2 Nos	
6	Change Over Switch (64Ah)	1 No	
7	10 mm Cable Single Core (ISI Standard)	70mtr	
8	6 mm Cable Single Core (ISI Standard)	70mtr	
9	2.5mm Cable Single Core (ISI Standard)	10mtr	
10	PVC Switch Board, Switch + Plug	1 No	
11	Earthing Connection	1 No	
12	Thunder Arrester	1 No	

Mechanical Characteristics of 24 voltSolar panel	Details	
	Weight	545wp 24 volt Solar Panel 32 kg
	Dimension (Width x Height x Thickness)	2279 X 1134 X 35 mm

Mechanical Characteristics of LiFePo4 Battery	Kwp	Battery (Ah)	Volt	Cell Quantity	Volt & Ah Per Cell
	7 kwp	86 AhLiFePo4	121.6 Volt	38 Nos.	3.2 Volt, 86 Ah
	10 kwp	100AhLiFePo4	121.6 Volt	38 Nos.	3.2 Volt, 100 Ah

KWP	Daily Electric Generation(Approx)	Maximum Supply Capacity in wattage
7 kwp	23040 watt (23.04 Unit)	At a time Inverter can supply @ 5400 watt Electricity
10 kwp	32400 watt (32.04 Unit)	At a time Inverter can supply @ 7000 watt Electricity

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SI	Materials Description
1	<p>Module- 545 wp(24 volt)</p> <ul style="list-style-type: none"> a) The PV Module shall contain Mono Crystalline black silicon solar cells and must have MNREcertified b) The power output of the modules under STC would be a minimum 330 WP at a load voltage of 36 (+/-) 0.2 V c) The open circuit voltage of the PV modules under STC would be 46.4 Volts. d) The module efficiency would be 17.01% e) A bird spike shall be provided to avoid bird sitting on the solar module at the highest point of the module structure. f) SPV module shall be highly reliable lightweight and shall be a service of life of more than 25 years. It shall have a limited power loss of not more than 10% of normal output at the end of 10 years and not more than 20% at the end of 25 years. g) The solar module shall be able to withstand the following environment at conditions normally encountered at the site- Temp. extremes ranging from 10°C to 85°C, wind load - 200 km/h, Max mean heavy rainfall of 40mm, Humidity level up to 95% h) Strip must contain the followings -Manufacturer name, model number, year of make.
2	<p>Solar On-Grid Inverter 3 Phase : (Grid Tie Inverter)-5kva/10kva/15kva/20kva/25kva/33kva/50kva</p> <p>Input Side shall contain :</p> <ul style="list-style-type: none"> a) Grid-tie inverter shall contain Maximum Input Power - 6.9 kW (for 6kva), 11.5 kW (for 10kva), 16.5 kW (for 15kva) b) Maximum Input Voltage - 1000 volt c) Startup Input Voltage - 330 volt d) Maximum input DC Voltage Range - 200 - 800 volt e) Maximum input Current - 15 + 15 Ah (for 6kva), 18 + 18 Ah (for 10kva & 15kva) f) MPPT Number/ No. of Strings per MPPT - 2,1 (for 6kva), 2,2 (for 10kva & 15kva) <p>Output Side shall contain :</p> <ul style="list-style-type: none"> a) Rated Output Power shall contain - 6 kW (for 6kva), 10 kW (for 10kva), 15 kW (for 15kva) b) Rated AC Grid Voltage - 380/400 volt c) AC Grid Voltage Range - 313 - 470 volt (Adjustable) d) Nominal AC Output Current - 8.7 Ah (for 6kva), 14.5 Ah (for 10kva), 21.7 Ah (for 15kva) e) Output Power Factor - 0.8 leading.....0.8 lagging <p>Efficiency shall contain :</p> <ul style="list-style-type: none"> a) Max Efficiency - 98.2% (for 6kva & 10kva) b) Euro Efficiency - 97.3% (for 6kva & 10kva), 97.5% (for 15kva) c) MPPT Efficiency - >99.50%
3	<p>Solar Off-Grid Inverter</p> <p>Solar Charge Controller Part shall contain :</p> <ul style="list-style-type: none"> a) DC Rated Voltage: 24volt (for 1kva/1.5kva/2kva), 48volt (3kva/4kva/5kva), 120volt (for 7kva/10kva) b) Charge Controller Type : MPPT c) Charger Topology : Buck Type d) No of MPPT Channel : 1 (Single Channel) e) Solar PV Capacity : 1kw (for 1kva), 2kw (for 2kva), 3kw (for 3kva), 5kw (for 5kva), 10kw (for 10kva) f) Maximum Open Circuit PV Volts: 90volt (for 1kva), 190volt (for 2kva & 3kva), 320volt (for 5kva & 10kva) g) PV Voltage Range (Vmp): 30 -72 V (for 1kva), 70 -160 V (for 2kva & 3kva), 140-250 V (for 5kva), 175 - 250 V (for 10kva) h) PV Minimum Voltage (Voc): 40 V (for 1kva), 75 V (for 2kva & 3kva), 150 V (for 5kva), 185 V (for 10kva) i) Peck Charging Efficiency : 92% (for 1kva, 2kva & 3kva), 94% (for 10kva) <p>Inverter Part shall contain :</p> <ul style="list-style-type: none"> a) Output Voltage: 230 VAC Single Phase b) Output Frequency : 50 Hz c) Output Capacity (at 0.8 pf) : 1kVA (for 1kva), 2kVA (for 2kva), 3kVA (for 3kva), 5kVA (for 5kva), 10kVA (for 10kva) d) Output Current : 3.5 A (for 1kva), 7.0 A (for 2kva), 10.5 A (for 3kva), 17.5 A (for 5kva), 35 A (for 10kva) e) Voltage Regulation : +/- 2% f) Frequency Regulation : +/- 0.5 Hz g) THD : < 3 % h) Power Factor : 0.99 i) Efficiency (Peak) : 85% (for 1kva), 88% (for 2kva & 3kva), 90% (for 5kva & 10kva) j) Over Load : 10 sec (for 1kva), 15 sec (for 2kva & 3kva), 30 sec (for 5kva), 60 sec (for 10kva) k) Changeover Time : < 20 mSec l) Load Bypass Feature : Provided m) Operating Temperature : -10°C to 50°C



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SI	Materials Description
4	<p>Solar Panel Roof Mount Roof Brackets For Metal Roofs</p> <p>a) Solar panel mounting all materials shall contain light weight, high strength and recyclable. b) Installation - Tin roof c) Wind load - 60m/s d) Snow load - 1.4 KN/m² e) Materials - Aluminum f) Color - Natural g) Anti -corrosive - Anodized</p> <p>Solar Panel Roof Mount Roof Brackets For Vacant Roofs</p> <p>a) Solar panel mounting all materials shall contain 6 mm thickness GI structure c) Wind velocity withstanding capacity - 150 km/hour d) Bolts, nuts, mounting clamps, fasteners - Stainless steel SS 304 e) Mounting arrangement for ground installation - The elevated structure has to be securely anchored to the supporting surface. Concrete foundations of appropriate weight and depth for elevated structures mounted directly on the roof/ground area f) Panel tilt angle - North -South orientation with a fixed tilt angel of 27-30 degrees (depending on location), south facing. However to accommodate more capacity the angel inclination may be reduced until the plant meets the specified performance ratio requirements.</p>
5	<p>ACDB & DCDB</p> <p>ACDB (alternative current distribution box) box shall contain:</p> <p>a) Ambient : -10 to 60 Degree C b) Type of Enclosure : IP66 Poly carbonate Material c) Input/Outputs : Single Phase ACDB, 3 Phase DCDB d) AC Switching : MCCB/MCB Based AC Disconnection e) Sugar Protection : AC SPD Type 2 f) Box / Top Cover : Opaque/Transparent</p> <p>DCDB (DC distribution box) also known as Array Junction Box, DCDB box shall contain:</p> <p>a) Ambient : -10 to 60 Degree C b) Type of Enclosure : IP66 Poly carbonate Material c) Input/Outputs : 1 in 1 out, 2 in 2 out, 3 in 3 out, 4 in 4 out d) DC Switching : 600/1000/1500 VDC Disconnection e) Sugar Protection : DC SPD Type 2, Fuse with or without indication f) Box / Top Cover : Opaque/Transparent</p>
6	<p>Wire & Cable</p> <p>Cables are designed for connecting photovoltaic power supply systems. Cable shall contain :</p> <p>a) Capacity : According to requirements for Solar PV System b) Rated Voltage :- 0.6/1Kva AC c) Rated DC Voltage :- 1.5 K.V d) Working Voltage :- DC 1000V e) Insulation Resistance :- 1000M SI-Km f) Ambient :- 40°C - +90°C</p>
7	<p>Thunder Arrester/Lighting Arrester</p> <p>The thunder or surge arrestor should be Gapless Metal oxide type for outdoor propose. It shall contain</p> <p>a) Rating(kV rms) :- 9 b) COV :- 7.65(kV rms) c) Degree Protection : IP67 d) Arrestor Rating :- 4.5 Kv e) Lighting impulse withstand voltage :- 75kVP</p>
8	<p>Earthing Rod & Connection</p> <p>Earth rods and fittings are used to provide the interface to ground in order to achieve satisfactory earthing systems in overhead and underground electricity distribution and transmission networks</p> <p>A) EARTH ROD, 1500mm x 13mm Dia, Copper Clad Steel Tapered B) EARTH ROD, Driving Point to suit Item #1 (Normal type)</p>





**1 HP SOLAR SUBMERSIBLE PUMP
(Model - U - I)**

Product Description

1 HP Submersible Pump, Model : U - I

No	DESCRIPTION OF SCHEME				QYANTITY	Warranty
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond				2 Nos.	25 Years
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond				1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond				1 No.	24 Months
4	On-Off Auto Censer Device/Floating Switch - Raimond				1 No.	
5	Concrete work (W & L :1300/1300mm, Height :1700mm) with front side tiles, back side gate, Color & Drain				1 No.	
6	Panel Mounting structure (GI)				1 No.	
7	Water Storage Tank (PVC) for 1000 Ltr (Suprime)				1 No.	60 Months
8	Iron Removal Filter (FRP Vessel : Dia – 325 mm & Height – 1350 mm) - Raimond				1 No.	24 Months
9	1.5mm 3 core cable (For VFD to Submersible Pump)				30 Mtr	
10	6 mm cable (Single Core for Panel to VFD)				16 Mtr	
11	0.75 mm cable (Single Core for VFD to Floating Switch)				8 mtr	
12	Boring Depth 91 Mtr	A	100 mm PVC Pipe - 5 Nos. (30 mtr)	E	50mm/100mm R Socket (Reducer) - 1 No.	1 No.
		B	50 mm PVC Pipe 8 Nos. (48 mtr)	F	100 mm Short Piece PVC (Length: 150 mm) -1 No.	
		C	50 mm Filter - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm) -1 No.	
		D	50 mm Plug Cutter (GI) -1 No	H	Solvent UPVC - 100 gm	
13	Plumbing All Materials	1	32mm COLUMPIPE - 8 Nos. (24 mtr)	15	¾" COUPLER UPVC - 4 Nos.	1 Set
		2	1" FAPT UPVC - 4 Nos.	16	¾" UNION UPVC - 1 No.	
		3	1 ¼" ADOPTER SOCKET - 1 No.	17	¾" ELBOW UPVC - 10 Nos.	
		4	WALLCOVER 4"/1 ¼" - 1 No.	18	¾" TEE UPVC - 7 Nos.	
		5	1 ½" UPVC NAILI CLAMP - 1 No.	19	¾" x ½" FAPT UPVC (M) - 2 Nos.	
		6	GI ELBOW 1 ¼" - 1 No.	20	BIB COCK - 3 Nos.	
		7	1" MAPT UPVC - 4 Nos.	21	FLANGE BATTI - 3 Nos.	
		8	1" ELBOW UPVC - 10 Nos.	22	TAPLON TAP - 2 Nos.	
		9	1" TEE UPVC - 2 Nos.	23	118 SOLVENT UPVC - 1 NO.	
		10	1" UNION UPVC - 2 Nos.	24	¾" UPVC NAIL CLAMP - 10 Nos.	
		11	1" LTC UPVC - 3 Nos.	25	¾" UPVC PIPE SCH 40 3MTR HB -3 Nos.	
		12	1" UPVC NAIL CLAMP - 6 Nos.	26	1" UPVC PIPE SCH 40 6MTR HB -1 No.	
		13	1" COUPLER UPVC - 3 Nos.	27	1" x ¾" BUSH UPVC - 4 Nos.	
		14	1" BALLVALVE LONG HANDLE UPVC - 1 No.			



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**2 HP SOLAR SUBMERSIBLE PUMP
(Model - U -II)**

Product Description

2 HP Submersible Pump, Model : U - II					
No	DESCRIPTION OF SCHEME			QYANTITY	Warranty
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond			4 Nos.	25 Years
2	2 Hp AC-DC Solar Submersible Pump (V4) - Raimond			1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond			1 No.	24 Months
4	On-Off Auto Censer Device/Floating Switch - Raimond			1 No.	
5	GI Structure for water tank and solar panel (5000 Ltr Tank Probation)			1 No.	
6	Water Storage Tank (PVC) for 5000 Ltr (Suprime)			1 No.	60 Months
7	2.5mm 3 core cable (For VFD to Submersible Pump)			30 Mtr	
8	6 mm cable (Single Core for Panel to VFD)			24 Mtr	
9	0.75 mm cable (Single Core for VFD to Floating Switch)			10 mtr	
10	Boring Depth 91 Mtr	A	100 mm PVC Pipe - 5 Nos. (30 mtr)	E	50mm/100mm R Socket (Reducer) - 1 No.
		B	50 mm PVC Pipe 8 Nos. (48 mtr)	F	100 mm Short Piece PVC (Length: 150 mm)-1 No.
		C	50 mm Filter - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm)-1 No.
		D	50 mm Plug Cutter (GI) - 1 No	H	Solvent UPVC - 100 grm
11	Plumbing All Materials	1	32mm COLUM PIPE - 8 Nos. (24 mtr)	15	¾" COUPLER UPVC - 4 Nos.
		2	1" FAPT UPVC - 4 Nos.	16	¾" UNION UPVC - 1 No.
		3	1 ¼" ADOPTER SOCKET - 1 No.	17	¾" ELBOW UPVC - 10 Nos.
		4	WALL COVER 4"/1 ¼" - 1 No.	18	¾" TEE UPVC - 7 Nos.
		5	1 ¼" UPVC NAILI CLAMP - 1 No.	19	¾" x ½" FAPT UPVC (M) - 2 Nos.
		6	GI ELBOW 1 ¼" - 1 No.	20	BIB COCK - 4 Nos.
		7	1" MAPT UPVC - 4 Nos.	21	TAPLON TAP - 2 Nos.
		8	1" ELBOW UPVC - 10 Nos.	22	118 SOLVENT UPVC - 1 NO.
		9	1" TEE UPVC - 2 Nos.	23	¾" UPVC NAIL CLAMP - 10 Nos.
		10	1" UNION UPVC - 2 Nos.	24	¾" UPVC PIPE SCH 40 3MTR HB -3 Nos.
		11	1" LTC UPVC - 3 Nos.	25	1" UPVC PIPE SCH 40 6MTR HB -1 No.
		12	1" UPVC NAIL CLAMP - 6 Nos.	26	1" x ¾" BUSH UPVC - 4 Nos.
		13	1" COUPLER UPVC - 3 Nos.		
		14	1" BALLVALVE LONG HANDLE UPVC -1 No.		
12	Concrete Platform (L,W & H : 300/300/600 mm)			1 Set	
13	The 4 sides of the platform are surrounded by Iron Mesh (Height - 1200 mm)			1 Set	

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**1 HP SOLAR SUBMERSIBLE PUMP
(Model - U- III)**

Product Description

1 HP Submersible Pump, Model : U - III

No	DESCRIPTION OF SCHEME	QYANTITY	Warranty	
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond	2 Nos.	25 Years	
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond	1 No.	24 Months	
3	Solar Pump Controller (VFD) - Raimond	1 No.	24 Months	
4	On-Off Auto Censer Device/Floating Switch - Raimond	1 No.		
5	GI Structure for water tank and solar panel (2000 Ltr Tank Probation)	1 No.		
6	Water Storage Tank (PVC) for 2000 Ltr (Suprime)	2Nos.	60 Months	
7	Iron Removal Filter (FRP Vessel : Dia – 325 mm & Height – 1350 mm) - Raimond	1 No.	24 Months	
8	Arsenic Removal Filter (FRP Vessel : Dia – 325 mm & Height – 1350 mm) - Raimond	1 No.	24 Months	
9	Water Hardness Removal Filter (FRP Vessel : Dia – 325 mm & Height – 1350 mm) - Raimond	1 No.	24 Months	
10	Water Smell Removal Filter (FRP Vessel : Dia – 325 mm & Height – 1350 mm) - Raimond	1 No.	24 Months	
11	1.5mm 3 core cable (For VFD to Submersible Pump)	30 Mtr		
12	6 mm cable (Single Core for Panel to VFD)	16 Mtr		
13	0.75 mm cable (Single Core for VFD to Floating Switch)	8 mtr		
14	Boring Depth 91 Mtr	A 100 mm PVC Pipe - 5 Nos. (30 mtr)	E 50mm/100mm R Socket (Reducer) – 1 No.	1 No.
		B 50 mm PVC Pipe 8 Nos. (48 mtr)	F 100 mm Short Piece PVC (Length: 150 mm) -1 No.	
		C 50 mm Filter - 7 Nos. (13 mtr)	G 50 mm Short Piece PVC (Length: 150 mm) -1 No.	
		D 50 mm Plug Cutter (GI) – 1 No	H Solvent UPVC - 100 grm	
15	Plumbing All Materials	1 32mm COLUM PIPE – 8 Nos. (24 mtr)	16 1 –½” MTA (PLASTIC) – 4 Nos.	1 Set
		2 1” FTA(PLASTIC) – 14 Nos.	17 ¾” ELBOW – 6 Nos.	
		3 1” MTA (PLASTIC) – 2 Nos.	18 ¾” COUPLER – 4 Nos.	
		4 WALL COVER 4”/1½” – 1 No.	19 1” x ¾” REDUCER – 2 Nos.	
		5 1” ELBOW UPVC – 25 Nos.	20 TEFLON TAPE 12MM x 0.1 MM x 10 M – 4 Nos.	
		6 1” TEE UPVC – 10 Nos.	21 SOLVENT CEMENT 100 ML – 3 Nos.	
		7 1” LONG TANK CONNECTOR – 3 Nos.	22 ½” x 1” REDUCING BUSH – 4 Nos.	
		8 1” BALL COCK – 1 No.	23 1” COUPLER – 8 Nos.	
		9 1” BALL VALVE (PLASTIC) – 2 Nos.	24 ¾” x ½” BRASH FTA WATER – 6 Nos.	
		10 1” x ¾” REDUCING BUSH – 6 Nos.	25 1½” ADAPTOR – 1 No.	
		11 1” UNION – 6 Nos.	26 1¼” – 1” GI ELBOW – 1 No.	
		12 1” x 6 MTR PIPE – 5 Nos.	27 BIB COCK – 4 Nos.	
		13 ¾” x 3 MTR PIPE – 1 No.	28 1” SADDLE CLIP – 20 Nos.	
		14 ¾” FTA (PLASTIC) - 2 Nos.	29 ¾” SADDLE CLIP – 6 Nos.	
		15 CLAMP – 1 No.		
16	Concrete Platform (L,W & H : 3000/3000/600 mm)	1 Set		
17	The 4 sides of the platform are surrounded by Iron Mesh (Height – 1200 mm)	1 Set		



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**1 HP SOLAR SUBMERSIBLE PUMP
(Model - U- IV)**

Product Description

1 HP Submersible Pump, Model : U - IV

No	DESCRIPTION OF SCHEME				QYANTITY	Warranty
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond				2 Nos.	25 Years
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond				1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond				1 No.	24 Months
4	On-Off Auto Censer Device/Floating Switch - Raimond				1 No.	
5	GI Structure for water tank and solar panel (1000 Ltr Tank Probation)				1 No.	
6	GI Structure's 4 Legs Foundation & 900/1200 mm brick wall with tiles 4 sides for water supply point & Drain				1 No.	
7	Water Storage Tank (PVC) for 1000 Ltr (Suprime)				1 No.	60 Months
8	Iron Removal Filter (FRP Vessel : Dia - 300 mm & Height - 1200 mm) - Raimond				1 No.	24 Months
9	1.5mm 3 core cable (For VFD to Submersible Pump)				30 Mtr	
10	6 mm cable (Single Core for Panel to VFD)				16 Mtr	
11	0.75 mm cable (Single Core for VFD to Floating Switch)				8 mtr	
12	Boring Depth 91 Mtr	A	100 mm PVC Pipe - 5 Nos. (30 mtr)	E	50mm/100mm R Socket (Reducer) - 1 No.	1 No.
		B	50 mm PVC Pipe - 8 Nos. (48 mtr)	F	100 mm Short Piece PVC (Length: 150 mm)-1 No.	
		C	50 mm Filter - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm)-1 No.	
		D	50 mm Plug Cutter (GI) - 1 No	H	Solvent UPVC - 100 grm	
13	Plumbing All Materials	1	32mm COLUMPIPE - 8 Nos. (24 mtr)	15	3/8" COUPLER UPVC - 4 Nos.	1 Set
		2	1" FAPT UPVC - 4 Nos.	16	3/4" UNION UPVC - 1 No.	
		3	1 1/2" ADOPTER SOCKET - 1 No.	17	3/4" ELBOW UPVC - 10 Nos.	
		4	WALLCOVER 4"/1 1/4" - 1 No.	18	3/4" TEE UPVC - 7 Nos.	
		5	1 1/2" UPVC NAILI CLAMP - 1 No.	19	3/4" x 1/2" FAPT UPVC (M) - 2 Nos.	
		6	GI ELBOW 1 1/4" - 1 No.	20	BIB COCK - 6 Nos.	
		7	1" MAPT UPVC - 4 Nos.	21	FLANGE BATTI - 6 Nos.	
		8	1" ELBOW UPVC - 10 Nos.	22	TAPLON TAP - 2 Nos.	
		9	1" TEE UPVC - 2 Nos.	23	118 SOLVENT UPVC - 1 NO.	
		10	1" UNION UPVC - 2 Nos.	24	3/4" UPVC NAIL CLAMP - 10 Nos.	
		11	1" LTC UPVC - 3 Nos.	25	3/4" UPVC PIPE SCH 40 3MTR HB -3 Nos.	
		12	1" UPVC NAIL CLAMP - 6 Nos.	26	1" UPVC PIPE SCH 40 6MTR HB -1 No.	
		13	1" COUPLER UPVC - 3 Nos.	27	1" x 3/4" BUSH UPVC - 4 Nos.	
		14	1" BALLVALVE LONG HANDLE UPVC -1 No.			



1 HP SOLAR SUBMERSIBLE PUMP (Model - U - V)

Product Description

1 HP Submersible Pump, Model : U - V

No	DESCRIPTION OF SCHEME				QYANTITY	Warranty
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond				2 Nos.	25 Years
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond				1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond				1 No.	24 Months
4	On-Off Auto Censer Device/Floating Switch - Raimond				1 No.	
5	GI Structure for water tank and solar panel (2000 Ltr Tank Probation)				1 No.	
6	Water Storage Tank (PVC) for 2000 Ltr (Suprime)				2Nos.	60 Months
7	Iron Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
8	Arsenic Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
9	Water Hardness Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
10	Water Smell Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
11	1.5mm 3 core cable (For VFD to Submersible Pump)				30 Mtr	
12	6 mm cable (Single Core for Panel to VFD)				16 Mtr	
13	0.75 mm cable (Single Core for VFD to Floating Switch)				8 mtr	
14	Boring Depth 91 Mtr	A	100 mm PVC Pipe - 5 Nos. (30 mtr)	E	50mm/100mm R Socket (Reducer) - 1 No.	1 No.
B		50 mm PVC Pipe - 8 Nos. (48 mtr)	F	100 mm Short Piece PVC (Length: 150 mm)-1 No.		
C		50 mm Filter - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm)-1 No.		
D		50 mm Plug Cutter (GI) - 1 No	H	Solvent UPVC - 100 gm		
15	Plumbing All Materials	1	32mm COLUM PIPE - 8 Nos. (24 mtr)	16	1 - 1/2" MTA (PLASTIC) - 4 Nos.	1 Set
2		1" FTA (PLASTIC) - 14 Nos.	17	3/4" ELBOW - 6 Nos.		
3		1" MTA (PLASTIC) - 2 Nos.	18	3/4" COUPLER - 4 Nos.		
4		WALL COVER 4"/1 1/4" - 1 No.	19	1" x 3/4" REDUCER - 2 Nos.		
5		1" ELBOW UPVC - 25 Nos.	20	TEFLON TAPE 12MM x 0.1 MM x 10 M - 4 Nos.		
6		1" TEE UPVC - 10 Nos.	21	SOLVENT CEMENT 100 ML - 3 Nos.		
7		1" LONG TANK CONNECTOR - 3 Nos.	22	1/2" x 1" REDUCING BUSH - 4 Nos.		
8		1" BALL COCK - 1 No.	23	1" COUPLER - 8 Nos.		
9		1" BALL VALVE (PLASTIC) - 2 Nos.	24	3/4" x 1/2" BRASH FTA WATER - 6 Nos.		
10		1" x 3/4" REDUCING BUSH - 6 Nos.	25	1 1/4" ADAPTOR - 1 No.		
11		1" UNION - 6 Nos.	26	1 1/4" - 1" GI ELBOW - 1 No.		
12		1" x 6 MTR PIPE - 5 Nos.	27	BIB COCK - 4 Nos.		
13		3/4" x 3 MTR PIPE - 1 No.	28	1" SADDLE CLIP - 20 Nos.		
14		3/4" FTA (PLASTIC) - 2 Nos.	29	3/4" SADDLE CLIP - 6 Nos.		
15		CLAMP - 1 No.				
16	Concrete Platform (L,W & H : 3000/3000/600 mm)				1 Set	
17	The 4 sides of the platform are surrounded by Iron Mesh (Height - 1200 mm)				1 Set	



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**1 HP SOLAR SUBMERSIBLE PUMP
(Model - U- VI)**

Product Description

1 HP Submersible Pump, Model : U -VI

No	DESCRIPTION OF SCHEME				QYANTITY	Warranty
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond				2 Nos.	25 Years
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond				1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond				1 No.	24 Months
4	On-Off Auto Censer Device/Floating Switch - Raimond				1 No.	
5	2 Storied Floor for 2 Nos. water Tank, Filters & Solar Panel : (1 st Floor Height 600 mm from ground level, Columsize : 250/250 mm, Number of Colum : 4, Colum Distance : 3000/3000 mm each (outside to outside), Ground floor height : 2700 mm (from floor to roof)				1 No.	
6	The 4 sides 1200 mm height MS Grill, Gate & Solar Panel Structure				1 No.	
7	The 4 sides 900 mm wide & 3000 mm length MS structure & shade				1 No.	
8	Water Storage Tank (PVC) for 2000 Ltr (Suprime)				2Nos.	60 Months
9	Iron Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
10	Arsenic Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
11	Water Hardness Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
12	Water Smell Removal Filter (FRP Vessel : Dia - 325 mm & Height - 1350 mm) - Raimond				1 No.	24 Months
13	1.5mm 3 core cable (For VFD to Submersible Pump)				30 Mtr	
14	6 mm cable (Single Core for Panel to VFD)				16 Mtr	
15	0.75 mm cable (Single Core for VFD to Floating Switch)				8 mtr	
16	Boring Depth 91 Mtr	A	100 mm PVC Pipe - 5 Nos. (30 mtr)	E	50mm/100mm R Socket (Reducer) - 1 No.	1 No.
		B	50 mm PVC Pipe 8 Nos. (48 mtr)	F	100 mm Short Piece PVC (Length: 150 mm)-1 No.	
		C	50 mm Filter - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm)-1 No.	
		D	50 mm Plug Cutter (GI) - 1 No	H	Solvent UPVC - 100 grm	
17	Plumbing All Materials	1	32mm COLUM PIPE - 8 Nos. (24 mtr)	16	1 - ½" MTA (PLASTIC) - 4 Nos.	1 Set
		2	1" FTA(PLASTIC) - 14 Nos.	17	¾" ELBOW - 6 Nos.	
		3	1" MTA (PLASTIC) - 2 Nos.	18	¾" COUPLER - 4 Nos.	
		4	WALL COVER 4"/1¼" - 1 No.	19	1" x ¾" REDUCER - 2 Nos.	
		5	1" ELBOW UPVC - 25 Nos.	20	TEFLON TAPE 12MM x 0.1 MM x 10 M - 4 Nos.	
		6	1" TEE UPVC - 10 Nos.	21	SOLVENT CEMENT 100 ML - 3 Nos.	
		7	1" LONG TANK CONNECTOR - 3 Nos.	22	½" x 1" REDUCING BUSH - 4 Nos.	
		8	1" BALL COCK - 1 No.	23	1" COUPLER - 8 Nos.	
		9	1" BALL VALVE (PLASTIC) - 2 Nos.	24	¾" x ½" BRASH FTA WATER - 6 Nos.	
		10	1" x ¾" REDUCING BUSH - 6 Nos.	25	1¼" ADAPTOR - 1 No.	
		11	1" UNION - 6 Nos.	26	1¼" - 1" GI ELBOW - 1 No.	
		12	1" x 6 MTR PIPE - 5 Nos.	27	BIB COCK - 4 Nos.	
		13	¾" x 3 MTR PIPE - 1 No.	28	FLANGE BATI - 4 Nos.	
		14	¾"FTA (PLASTIC) - 2 Nos.	29	1" SADDLE CLIP - 20 Nos.	
		15	CLAMP - 1 No.	30	¾" SADDLE CLIP - 6 Nos.	

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1 HP SOLAR SUBMERSIBLE PUMP (Model - U- VII)

Product Description

1 HP Submersible Pump, Model : U - VII

No	DESCRIPTION OF SCHEME				QUANTITY	Warranty
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond				2 Nos.	25 Years
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond				1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond				1 No.	24 Months
4	On-Off Auto Censer Device/Floating Switch - Raimond				1 No.	
5	Concrete work & Tiles also :(Colum size : 250 mm/250 mm, Number of Colum : 4, Colum distance : 1500 mm/1500 mm each(outside to outside), Ceiling height :2700 mm from floor, Roof part Colum height 600mm)				1 No.	
6	Panel Mounting structure (GI)				1 No.	
7	Water Storage Tank (PVC) for 1000 Ltr (Suprime)				1 No.	60 Months
8	Iron Removal Filter (FRP Vessel : Dia – 325 mm & Height – 1350 mm) - Raimond				1 No.	24 Months
9	1.5mm 3 core cable (For VFD to Submersible Pump)				30 Mtr	
10	6 mm cable (Single Core for Panel to VFD)				16 Mtr	
11	0.75 mm cable (Single Core for VFD to Floating Switch)				8 mtr	
12	Boring Depth 91 Mtr	A	100 mm PVC Pipe - 5 Nos. (30 mtr)	E	50mm/100mm R Socket (Reducer) – 1 No.	1 No.
		B	50 mm PVC Pipe - 8 Nos. (48 mtr)	F	100 mm Short Piece PVC (Length: 150 mm)-1 No.	
		C	50 mm Filter - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm)-1 No.	
		D	50 mm Plug Cutter (GI) – 1 No	H	Solvent UPVC - 100 gm	
13	Plumbing MaterialsAll	1	32mm COLUMPIPE – 8 Nos. (24 mtr)	15	¾" COUPLER UPVC – 4 Nos.	1 Set
		2	1" FAPT UPVC – 4 Nos.	16	¾" UNION UPVC – 1 No.	
		3	1 ¼" ADOPTER SOCKET – 1 No.	17	¾" ELBOW UPVC – 10 Nos.	
		4	WALLCOVER 4"/1 ¼" – 1 No.	18	¾" TEE UPVC – 7 Nos.	
		5	1 ½" UPVC NAILI CLAMP – 1 No.	19	¾" x ½" FAPT UPVC (M) – 2 Nos.	
		6	GI ELBOW 1 ½" – 1 No.	20	BIB COCK – 3 Nos.	
		7	1" MAPT UPVC – 4 Nos.	21	FLANGE BATTI – 3 Nos.	
		8	1" ELBOW UPVC – 10 Nos.	22	TAPLON TAP – 2 Nos.	
		9	1" TEE UPVC – 2 Nos.	23	118 SOLVENT UPVC – 1 NO.	
		10	1" UNION UPVC – 2 Nos.	24	¾" UPVC NAIL CLAMP – 10 Nos.	
		11	1" LTC UPVC – 3 Nos.	25	¾" UPVC PIPE SCH 40 3MTR HB -3 Nos.	
		12	1" UPVC NAIL CLAMP – 6 Nos.	26	1" UPVC PIPE SCH 40 6MTR HB -1 No.	
		13	1" COUPLER UPVC – 3 Nos.	27	1" x ¾" BUSH UPVC – 4 Nos.	
		14	1" BALLVALVE LONG HANDLE UPVC -1 No.			



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1 HP SOLAR SUBMERSIBLE PUMP (Model - U- VIII)

Product Description

1 HP Submersible Pump, Model : U -VIII

No	DESCRIPTION OF SCHEME	QYANTITY	Warranty	
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond	2 Nos.	25 Years	
2	1 Hp AC-DC Solar Submersible Pump (V3/V4) - Raimond	1 No.	24 Months	
3	Solar Pump Controller (VFD) - Raimond	1 No.	24 Months	
4	On-Off Auto Censer Device/Floating Switch - Raimond	1 No.		
5	GI Structure for water tank and solar panel (500 Ltr Tank Probation)	1 No.		
6	Water Storage Tank (PVC) for 500 Ltr (Suprime)	2Nos.	60 Months	
7	Iron Removal Filter (FRP Vessel : Dia – 300 mm & Height – 1200 mm) - Raimond	1 No.	24 Months	
8	Arsenic Removal Filter (FRP Vessel : Dia – 300 mm & Height – 1200 mm) - Raimond	1 No.	24 Months	
9	Water Hardness Removal Filter (FRP Vessel : Dia – 300 mm & Height – 1200 mm) - Raimond	1 No.	24 Months	
10	Water Smell Removal Filter (FRP Vessel : Dia – 300 mm & Height – 1200 mm) - Raimond	1 No.	24 Months	
11	1.5mm 3 core cable (For VFD to Submersible Pump)	30 Mtr		
12	6 mm cable (Single Core for Panel to VFD)	16 Mtr		
13	0.75 mm cable (Single Core for VFD to Floating Switch)	8 mtr		
14	Boring Depth 91 Mtr	A 100 mm PVC Pipe - 5 Nos. (30 mtr)	E 50mm/100mm R Socket (Reducer) – 1 No.	1 No.
		B 50 mm PVC Pipe - 8 Nos. (48 mtr)	F 100 mm Short Piece PVC(Length: 150 mm)-1 No.	
		C 50 mm Filter - 7 Nos. (13 mtr)	G 50 mm Short Piece PVC (Length: 150 mm)-1 No.	
		D 50 mm Plug Cutter (GI) – 1 No	H Solvent UPVC - 100 grm	
15	Plumbing All Materials	1 32mm COLUM PIPE – 8 Nos. (24 mtr)	16 1–½” MTA (PLASTIC) – 4 Nos.	1 Set
		2 1” FTA(PLASTIC) – 14 Nos.	17 ¾” ELBOW – 6 Nos.	
		3 1” MTA (PLASTIC) – 2 Nos.	18 ¾” COUPLER – 4 Nos.	
		4 WALL COVER 4”/1¼” – 1 No.	19 1” x ¾” REDUCER – 2 Nos.	
		5 1” ELBOW UPVC – 25 Nos.	20 TEFLON TAPE 12MM x 0.1 MM x 10 M – 4 Nos.	
		6 1” TEE UPVC – 10 Nos.	21 SOLVENT CEMENT100 ML – 3 Nos.	
		7 1” LONG TANK CONNECTOR – 3 Nos.	22 ½” x 1” REDUCING BUSH – 4 Nos.	
		8 1” BALL COCK – 1 No.	23 1” COUPLER – 8 Nos.	
		9 1” BALL VALVE (PLASTIC) – 2 Nos.	24 ¾” x ½” BRASH FTA WATER – 6 Nos.	
		10 1” x ¾” REDUCING BUSH – 6 Nos.	25 1¼” ADAPTOR – 1 No.	
		11 1” UNION – 6 Nos.	26 1¼” – 1” GI ELBOW – 1 No.	
		12 1” x 6 MTR PIPE – 5 Nos.	27 BIB COCK – 4 Nos.	
		13 ¾” x 3 MTR PIPE – 1 No.	28 1” SADDLE CLIP – 20 Nos.	
		14 ¾”FTA (PLASTIC) – 2 Nos.	29 ¾” SADDLE CLIP – 6 Nos.	
		15 CLAMP – 1 No.		
16	Concrete Platform (L,W & H : 2400/2400/450 mm)	1 Set		
17	The 4 sides of the platform are surrounded by Iron Mesh (Height – 1200 mm)	1 Set		

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2 HP SOLAR SUBMERSIBLE PUMP (Model - U- IX)

Product Description

2 HP Submersible Pump, Model : U -IX

No.	DESCRIPTION OF SCHEME				QYANTITY	Warranty
1	SOLAR MODULE 545 WP, 48 VOLT MONO CRYSTALLINE - Raimond				4 Nos.	25 Years
2	2 HP AC-DC SOLAR SUBMERSIBLE PUMP (V4) - Raimond				1 No.	24 Months
3	SOLAR PUMP CONTROLLER (VFD) - Raimond				1 No.	24 Months
4	ON-OFF AUTO CENSER DEVICE/FLOATING SWITCH- Raimond				1 No.	
5	2 STORIED FLOORFOR 5000 LTRWATER TANK& SOLAR PANEL STRUCTURE : (1 ST FLOOR HEIGHT 3000 MMFROMGROUNDLEVEL, COLUMNSIZE : 300/300 MM, NUMBEROF COLUM : 4, COLUM DISTANCE : 3000/3000 MMEACH (OUTSIDETOOUTSIDE), 2 ND FLOORHEIGHT : 3000 MM (FROM 1 ST FLOORROOF)				1 No.	
6	PANEL MOUNTING STRUCTURE (GI)				1 No.	
7	20' HEIGHTROUND IRON STAIR (MS)				1 No.	
8	WATER STORAGE TANK (PVC) FOR5000 LTR (Suprime)				1No.	60 Months
9	2.5MM 3 CORECABLE (FOR VFD TO SUBMERSIBLE PUMP)				45 Mtr	
10	6 MMCABLE (SINGLE COREFOR PANELTO VFD)				24 Mtr	
11	0.75 MMCABLE (SINGLE COREFOR VFD TO FLOATING SWITCH)				10 mtr	
12	Boring Depth 91 Mtr	A	100 mm PVC PIPE - 5 Nos. (30 mtr)	E	50mm/100mm R SOCKET (Reducer) - 1 No.	1 No.
		B	50 mm PVC PIPE - 8 Nos. (48 mtr)	F	100 mm SHORT Piece PVC(Length: 150 mm)-1 No.	
		C	50 mm FILTER - 7 Nos. (13 mtr)	G	50 mm Short Piece PVC (Length: 150 mm)-1 No.	
		D	50 mm PLUG CUTTER (GI) - 1 No	H	SOLVENT UPVC - 100 grm	
13	Delivery Line 1000 mtr	A	70 mm PVC Pipe 6mtr - 40 Nos. (240 mtr)	C	40 mm PVC Pipe 6mtr - 40 Nos. (240 mtr)	
		B	50 mm PVC Pipe 6mtr - 50 Nos. (300 mtr)	D	32 mm PVC Pipe 6mtr - 36 Nos. (216 mtr)	
14	Plumbing All Materials	1	32mm COLUM PIPE - 8 Nos. (24 mtr)	22	AG 1½" TEE-5 Nos.	1 Set
		2	15mm PVC PIPE(Tap Connector) -3 Nos.(18mtr)	23	AG 1½" x ½" TEE - 5 Nos.	
		3	AG 3" COUPLER - 30 Nos.	24	AG 1½" x 1½" REDUCER - 4 Nos.	
		4	AG 3" ELBOW 90° - 30 Nos.	25	AG 1½" END CAP PLAIN - 2 Nos.	
		5	AG 3" ELBOW 45° - 2 Nos.	26	AG 1¼" COUPLER - 30 Nos.	
		6	AG 3" TEE - 5 Nos.	27	AG 1¼" ELBOW 90° - 40 Nos.	
		7	AG 3" LONG TANK CONNECTOR - 2 Nos.	28	AG 1¼" ELBOW 45° - 2 Nos.	
		8	AG 3" BALL VALVE (PLASTIC) - 2 Nos.	29	AG 1½" TEE - 5 Nos.	
		9	AG 3" UNION - 2 Nos.	30	AG 1½" x ½" TEE - 5 Nos.	
		10	AG 3" x 2" REDUCER - 4 Nos.	31	AG 1¼" END CAP PLAIN - 4 Nos.	
		11	AG 3" x 1" TEE - 5 Nos.	32	SOLVENT UPVC - 5 Ltr.	
		12	AG 2" COUPLER - 40 Nos.	33	½" ELBOW - 40 Nos.	
		13	AG 2" ELBOW 90° - 50 Nos.	34	½" COUPLER - 10 Nos.	
		14	AG 2" ELBOW 45° - 2 Nos.	35	½" TEE - 10 Nos.	
		15	AG 2" TEE - 5 Nos.	36	½" BRASS FTA WATER - 16 Nos.	
		16	AG 2" x ½" TEE - 5 Nos.	37	UPVC BIB COCK - 16 Nos.	
		17	AG 2" x 1½" REDUCER - 4 Nos.	38	TEFLON TAPE - 5 Nos.	
		18	AG 1½" LONG TANK CONNECTOR - 1 No.	39	M-SEAL (10) - 6 Nos.	
		19	AG 1½" COUPLER - 30 Nos.	40	½" BALL VALVE (PLASTIC) - 16 Nos.	
		20	AG 1½" ELBOW 90° - 50 Nos.	41	1" x ½" UPVC BUSH - 1 No.	
		21	AG 1½" ELBOW 45° - 2 Nos.			
15	Water Distribution Point (900mm/900mm) - Concrete work				12Nos.	



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2 HP SOLAR SUBMERSIBLE PUMP (Model - V - I)

Product Description

2 HP Submersible Pump, Model : V - I

No	DESCRIPTION OF SCHEME	QUANTITY	WARRANTY
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond	4 Nos.	25 Years
2	2 Hp AC-DC Solar Submersible Pump (V4) - Raimond	1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond	1 No.	24 Months
4	Panel Mounting structure (GI)	1 No.	
5	Structure Foundation Purpose Concrete work	1 No.	
6	2.5mm 3 core cable (For VFD to Submersible Pump)	30 Mtr	
7	6 mm cable (Single Core for Panel to VFD)	24Mtr	
8	Earthing Connection	1 No.	
9	Boring Depth 91 Mtr	A 100 mm PVC Pipe - 5 Nos. (30 mtr)	1 No.
		B 50 mm PVC Pipe - 8 Nos. (48 mtr)	
		C 50 mm Filter - 7 Nos. (13 mtr)	
		D 50 mm Plug Cutter (GI) – 1 No	
		E 50mm/100mm R Socket (Reducer) – 1 No.	
		F 100 mm Short Piece PVC (Length: 150 mm) -1 No.	
		G 50 mm Short Piece PVC (Length: 150 mm) -1 No.	
		H Solvent UPVC- 100 grm	
10	Plumbing All Materials	A 32mm COLUM PIPE – 8 Nos. (24 mtr)	1 Set
		B 1¼” ADOPTER SOCKET – 1 No.	
		C WALL COVER 4” – 1 No.	
		D 1¼” NAIL CLAMP – 1 No.	
		E 1¼” GI ELBOW – 1 No.	
		F 1¼” MTA (GI) – 1 No.	
		G 1¼” GI PIPE 1’ – 1 No.	

Mechanical Characteristics of 2 HP Solar Submersible Pump	Outlet Size	RPM	KW	Pump Dia	Bore Dia	Head in Mtr	Water can lifted P/H	Water can lifted P/D
	32 mm	2800	1.5	98 mm	110 mm	30 mtr	4800 Ltr	28800 Ltr

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3 HP SOLAR SUBMERSIBLE PUMP (Model - V- II)

Product Description

3 HP SOLAR SUBMERSIBLE PUMP (Model - V- II)

No	DESCRIPTION OF SCHEME	QYANTITY	WARRANTY
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond	6 Nos.	25 Years
2	3 Hp AC-DC Solar Submersible Pump (V4) - Raimond	1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond	1 No.	24 Months
4	Panel Mounting structure (GI)	1 No.	
5	Structure Foundation Purpose Concrete work	1 No.	
6	2.5mm 3 core cable (For VFD to Submersible Pump)	30 Mtr	
7	6 mm cable (Single Core for Panel to VFD)	32 Mtr	
8	Earthing Connection	1 No.	
9	Boring Depth 91 Mtr	A 100 mm PVC Pipe - 5 Nos. (30 mtr)	1 No.
		B 75 mm PVC Pipe - 8 Nos. (48 mtr)	
		C 75 mm Filter- 7 Nos. (13 mtr)	
		D 75 mm Plug Cutter (GI) – 1 No	
		E 75mm/100mm R Socket (Reducer) – 1 No.	
		F 100 mm Short Piece PVC (Length: 150 mm) -1 No.	
		G 75 mm Short Piece PVC (Length: 150 mm)–1 No.	
		H Solvent UPVC - 100 grm	
10	Plumbing All Materials	A 48mm COLUM PIPE – 8 Nos. (24 mtr)	1 Set
		B 2" ADOPTER SOCKET – 1 No.	
		C WALL COVER 4" – 1 No.	
		D 2" NAIL CLAMP – 1 No.	
		E 2" GI ELBOW – 1 No.	
		F 2" MTA (GI) – 1 No.	
		G 2" GI PIPE 1' – 1 No.	

Mechanical Characteristics of 3 HP Solar Submersible Pump	Outlet Size	RPM	KW	Pump Dia	Bore Dia	Head in Mtr	Water can lifted P/H	Water can lifted P/D
	50 mm	2800	2.2	98 mm	110 mm	30 mtr	9000'litr	54000'litr



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Product Description

5 HP SOLAR SUBMERSIBLE PUMP (Model - V- III)

5 HP Submersible Pump, Model : V - III

No	DESCRIPTION OF SCHEME	QUANTITY	WARRANTY	
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond	10 Nos.	25 Years	
2	5 Hp AC-DC Solar Submersible Pump (V6) - Raimond	1 No.	24 Months	
3	Solar Pump Controller (VFD) - Raimond	1 No.	24 Months	
4	Panel Mounting structure (GI)	1 No.		
5	Structure Foundation Purpose Concrete work	1 No.		
6	4 mm 3 core cable (For VFD to Submersible Pump)	30 Mtr		
7	10 mm cable (Single Core for Panel to VFD)	40 Mtr		
8	Earthing Connection	1 No.		
9	Thunder Arrester/Lighting Arrester	1 No.		
10	Boring Depth 91 Mtr	A	150 mm PVC Pipe - 5 Nos. (30 mtr)	1 No.
		B	100 mm PVC Pipe - 8 Nos. (48 mtr)	
		C	100 mm Filter - 7 Nos. (13 mtr)	
		D	100 mm Plug Cutter (GI) - 1 No	
		E	100 mm/150mm R Socket (Reducer) - 1 No.	
		F	150 mm Short Piece PVC (Length: 150 mm)-1 No.	
		G	100 mm Short Piece PVC (Length: 150 mm)- 1 No.	
		H	Solvent UPVC - 200 grm	
11	Plumbing All Materials	A	60mm COLUM PIPE - 8 Nos. (24 mtr)	1 Set
		B	2½" ADOPTER SOCKET - 1 No.	
		C	WALL COVER 6" - 1 No.	
		D	2½" NAIL CLAMP - 1 No.	
		E	2½" GI ELBOW - 1 No.	
		F	2½" MTA (GI) - 1 No.	
		G	2½" GI PIPE 1' - 1 No.	

Mechanical Characteristics of 5 HP Solar Submersible Pump	Outlet Size	RPM	KW	Pump Dia	Bore Dia	Head in Mtr	Water can lifted P/H	Water can lifted P/D
	64 mm	2800	3.5	142 mm	150 mm	30 mtr	24000 Ltr	144000 Ltr

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7.5 HP SOLAR SUBMERSIBLE PUMP (Model -V-IV)

Product Description

7.5 HP Submersible Pump, Model : V - IV

No	DESCRIPTION OF SCHEME		QUANTITY	WARRANTY
1	Solar Module 545 wp, 48 volt Mono Crystalline - Raimond		14 Nos.	25 Years
2	7.5 Hp AC-DC Solar Submersible Pump (V6) - Raimond		1 No.	24 Months
3	Solar Pump Controller (VFD) - Raimond		1 No.	24 Months
4	Panel Mounting structure (GI)		1 No.	
5	Structure Foundation Purpose Concrete work		1 No.	
6	4 mm 3 core cable (For VFD to Submersible Pump)		30 Mtr	
7	10 mm cable (Single Core for Panel to VFD)		60 Mtr	
8	Earthing Connection		1 No.	
9	Thunder Arrester/Lighting Arrester		1 No.	
10	Boring Depth 91 Mtr	A 150 mm PVC Pipe - 5 Nos. (30 mtr)	1 No.	
		B 100 mm PVC Pipe - 8 Nos. (48 mtr)		
		C 100 mm Filter - 7 Nos. (13 mtr)		
		D 100 mm Plug Cutter (GI) - 1 No		
		E 100 mm/150mm R Socket (Reducer) - 1 No.		
		F 150 mm Short Piece PVC (Length: 150 mm) - 1 No.		
		G 100 mm Short Piece PVC (Length: 150 mm) - 1 No.		
		H Solvent UPVC - 200 gm		
11	Plumbing All Materials	A 60 mm COLUM PIPE - 8 Nos. (24 mtr)	1 Set	
		B 2½" ADOPTER SOCKET- 1 No.		
		C WALL COVER 6" - 1 No.		
		D 2½" NAIL CLAMP - 1 No.		
		E 2½" GI ELBOW - 1 No.		
		F 2½" MTA (GI) - 1 No.		
		G 2½" GI PIPE 1' - 1 No.		

Mechanical Characteristics of 7.5 HP Solar Submersible Pump	Outlet Size	RPM	KW	Pump Dia	Bore Dia	Head in Mtr	Water can lifted P/H	Water can lifted P/D
	64 mm	2800	4.4	142 mm	150 mm	30 mtr	36000 Ltr	216000 Ltr



RAIMOND SOLAR Pvt. Ltd.

Helpline : +91 90730 59780

Product Description

Water Cooling Machine

Sl	DESCRIPTION OF SCHEME	QTA	WARRANTY
1	Solar Module 545 wp, 24 volt Mono Crystalline- Raimond	1 No.	25 Years
2	Water Cooling Machine (Tank Capacity 40 Ltr)- Raimond	1 No.	12 Months
3	Battery (Lithium Po4 50Ah, 25.6 volt) - Raimond	1 No.	60 Months
4	Solar Inverter 1 kva, 24 volt- Raimond	1 No.	24 Months
5	On-Off Auto Censer Device	1 No.	
6	Panel Mounting structure (GI)	1 No.	
7	6 mm Single core cable (Solar Module to Inverter & Battery)	20 mtr	

Mechanical Characteristics of Water -Cooling Machine

Tank Capacity	40 Ltr
Cooling	20 Ltr per Hour
Height	1200 mm
Breath	400 mm
Depth	400 mm
Body Materials	SS 304
AMPS	1.5
Volt	220



WATER COOLING MACHINE

Product Description

UV

Sl	DESCRIPTION OF SCHEME	QTA	WARRANTY
1	UV (Ultraviolet) Filter - Raimond	1 No.	12 Months
2	Solar Module 10 wp, 12 volt- Raimond	1 No.	25 Years
3	Dry Cell Battery 7 Ah, 12 volt- HBL	1 No.	12 Months
4	Battery Box (GI)	1 No.	
5	Charge Controller 10 Ah, 12 volt	1 No.	24 Months
6	2.5 mm Double Core Cable	10 mtr	

Mechanical Characteristics of UV Filter

Height	600 MM
OD	75 MM
Body Materials	SS
UV ECS	1000 LPH



UV (ULTRAVIOLET) FILTER

Product Description

RO FILTER

Mechanical Characteristics of RO Filter

Height	500 mm
OD	113mm
Body Materials	Fiber-Reinforced Plastic
Spun Cartridge	500mm x 113mm



RO FILTER



Solar Table Lamp (3 watt)

Product Description

Solar Table Lamp

No.	MATERIAL DESCRIPTION	QTY	Warranty
1	Solar Module 1wp, 6 volt -Raimond	1 No	60 Months
2	Light 3 watt LED	1 No	12 Months
3	Lithium Ion Battery 3 Ah, 3.7 Volt	1 No	12 Months

Back up Time 3 to 4 Hours Daily



Solar Lantern (6 watt)

Solar Lantern

No.	MATERIAL DESCRIPTION	QTY	Warranty
1	Solar Module 10wp, 12 volt -Raimond	1 No	25 Months
2	Light 6 watt LED	1 No	12 Months
3	Lithium Ion Battery 6 Ah, 12 Volt	1 No	12 Months

Back up Time 4 Hours Daily



Solar Rechargeable Fan (18 watt)

Solar Rechargeable Fan

No.	MATERIAL DESCRIPTION	QTY	Warranty
1	Solar Module 10wp, 12 volt -Raimond	1 No	25 Months
2	Table Fan 18 watt, 12 volt (12")	1 No	12 Months
3	Lithium Ion Battery 6 Ah, 12 Volt	1 No	12 Months

Back up Time 4 Hours Daily



Double Window Integrated (10 watt)

Double Window Integrated

No	MATERIAL DESCRIPTION	QTY	Warranty
1	Solar Module 5wp, 6 volt -Raimond	1 No	60 Months
2	Light 10 watt LED	1 No	12 Months
3	Lithium Po4 Battery 12 Ah, 3.2 Volt	1 No	12 Months
4	PIR Censer	1 No	12 Months

Back up Time 10 Hours Daily



Triple Window Integrated (15 watt)

Triple Window Integrated

No	MATERIAL DESCRIPTION	QTY	Warranty
1	Solar Module 10wp, 6 volt -Raimond	1 No	60 Months
2	Light 15 watt LED	1 No	12 Months
3	Lithium Po4 Battery 18 Ah, 3.2 Volt	1 No	12 Months
4	PIR Censer	1 No	12 Months

Back up Time 10 Hours Daily



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