



GREEN POLICIES OF YASHODA COLLEGE OF ARCHITECTURE

Introduction:

Our institute is committed to reducing our environmental impact and promoting sustainability through the implementation of various policies and practices. Our goal is to create a green campus that is energy-efficient, environmentally friendly, and promotes a healthy living and learning environment for our students, faculty, and staff.

Energy Conservation Policy:

Institute recognizes the importance of reducing energy consumption and has implemented policies to achieve this goal. We encourage energy conservation by promoting the use of energy-efficient appliances and using renewable energy sources such as solar panels. Our buildings are designed to maximize natural lighting and ventilation while minimizing the use of artificial lighting and air conditioning. Students and Staff are encouraged to turn off the energy consuming appliances when not in use.

Waste Reduction Policy:

Yashoda College of Architecture is committed to reducing waste by promoting recycling, and reducing the use of disposable products on campus. In exhibitions students are encouraged to design all art installations from recycled materials. We have implemented policies to encourage students, faculty, and staff to adopt sustainable practices, such as using refillable water bottles and reducing paper use through the use of digital technologies. YCA has signed a MOU with RIDOFT agency to handover the recycle waste generated from studios. For single use plastics we have made it compulsory to each student to collect minimum 200grams of plastic and submit it to the institute as a green initiative. This way students also encourage their family and friends to do so. The plastic then collected is submitted to the RIDOFT organization for recycling.

Water Conservation Policy:

YCA recognizes the importance of water conservation and has implemented policies to reduce water consumption. We have implemented rainwater harvesting systems, and promote water-efficient landscaping. We have also implemented policies to reduce the use of water in our operations and maintenance practices

Green Building Policy:

Our institute is committed to constructing and maintaining green buildings that are energy-efficient, environmentally friendly, and promote a healthy indoor environment. We have



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YSPM's Yashoda College of Architecture

implemented policies to achieve LEED certification for all new buildings, and we regularly perform energy audits to identify opportunities for energy savings.

Tree Plantation

To offset the Carbon footprint YCA organizes tree plantation program with in the campus and sometimes also with help of other organizations.

Education and Outreach Policy:

Our institute promotes sustainability education and outreach to students, faculty, staff, and the wider community. We have implemented policies to educate our campus community about sustainability and encourage them to take actions that promote a more sustainable future. In exhibitions parents, other college students, people in nearby areas visit which spreads the message of designing art in everyday life from recycled materials. We try to inculcate sustainability in each and every student by making them incorporate sustainable design practices in their own Architecture designs, in order to make them responsible and sustainable Architects for the future buildings they build.

We organize regular sustainability events and offer sustainability-related courses and workshops. Our institute is committed to achieving a green campus and has implemented policies to reduce our environmental impact and promote sustainability. We will continue to evaluate and update our policies to ensure that we are doing our part to create a more sustainable future for all.



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Wadhe, Maharashtra, India
P2CC+RMR, Wadhe, Maharashtra 415015, India
Lat 17.721129°
Long 74.020894°
29/03/22 04:26 PM



Wadhe, Maharashtra, India
NH-4, S. No. 242F, VN Rd, Wadhe, Maharashtra
415015, India
Lat 17.721407°
Long 74.020624°
29/03/22 05:00 PM

Rain Water Harvesting System:





GPS Map Camera



Pune Division, Maharashtra, India
P2CC+F7C, VN Rd, Wadhe, Maharashtra 415015, India
Long 74.020660°
Lat 17.721198°
05/5/2023 10:15 AM



GPS Map Camera



Pune Division, Maharashtra, India

P2CC+RMR, Wadhe, Maharashtra 415015, India

Long 74.021612°

Lat 17.722097°

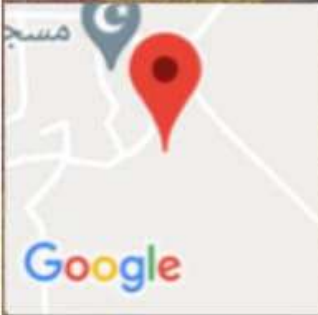
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Google

ARCHITECTURE



GPS Map Camera



Pune Division, Maharashtra, India
P2CC+RMR, Wadhe, Maharashtra 415015, India
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Dry
Waste

TODAYS
READER
TOMORROWS
LEADER



Wet
Waste

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10
2
1



A REPORT ON

'YCA GREEN'

Title: YCA GREEN

Date: 15th April 2022

Time: 8.00 am to 02:45 pm

Type: Academic year 2021-2022

Venue: Yashoda College of Architecture

Faculty Cordinators: Ar.Snehal Shedge and Ar. Renuka Raut

Aim – The aim of this initiative is to achieve sustainable development goals

Objectives – To make society aware about waste management through college initiative. This initiative is for dry waste management to enhance, increase and establish more effective services with help of RIDOFT SUSTAINABLE ENVIRONS PVT.LTD

It is initiative taken by Yashoda College of Architecture in collaboration with RIDOFT SUSTAINABLE ENVIRONS PVT.LTD and sustainable development goals set by United States and Swachh Bharat Mission.

Purpose of this initiative to achieve sustainable development goals and to achieve this goal colleges and universities plays a vital role in preparing students to meet the sustainability challenges in future. This initiative is to be considered as a pilot project under swachh Bharat Mission. REUSE REDUCE RECYCLE is the motto of this initiative.

Sustainable development is a development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

This initiative is for dry waste management to enhance, increase and establish more effective services with help of RIDOFT SUSTAINABLE ENVIRONS PVT.LTD

For this Yashoda college of architecture is collecting dry paper and models within college campus by all students of YCA.200 gm of plastic will be collected from each student during registration week and tag it with students and registration ID, store it. Then handover it to RIDOFT SUSTAINABLE ENVIRONS PVT.LTD representative Ar.Shaunak Kadam.





YSPM's Yashoda College of Architecture

Also per student per year two and half kg of minimum plastic to be recycled and first three prizes will be given to students as green saviours. By engaging students, staff of YCA and their households in campaign to maximize on ground impact by using RIDOFT app.





YSPM's
Yashoda College of Architecture

YSPM's



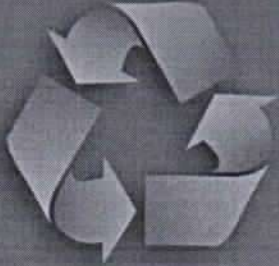
YASHODA COLLEGE OF ARCHITECTURE

in collaboration with

'RIDOFT Sustainable Environs Pvt. Ltd.'



an initiative for achieving
SUSTAINABLE DEVELOPMENT GOALS
by
United Nations & Swaccha Bharat Mission



REDUCE

REUSE

RECYCLE

YCA
GREEN

Per Student minimum target of 2.5 kg per year to be Recycled

First 3 Prizes for 'GREEN SAVIERS'

Offset your Carbon Emissions : Help to Save Environment

* Each Participants to download 'RIDOFT' app to generate trash history.

Faculty
Co-ordinators -

Ar. Snehal Shedge - 9665550226
Ar. Renuka Raut - 9561949409

RIDOFT
Co-ordinator -

Ar. Shaunak Kadam
7588636234

Student
Co-ordinators -

Swapnil Dharmadhikari - 8983083383
Vaishnavi Mulik - 9767269257





YSPM's
Yashoda College of Architecture



Plastic waste is handed over to RIDOFT SUSTAINABLE ENVIRONS
PVT.LTD representative Ar.Shaunak Kadam by Principal of Yashoda College of
Architecture Ar.Suhas Talekar



Principal
Yashoda College of Architecture
Satara



YASHODA SHIKSHAN PRASARAK MANDAL, SATARA

Regi. No. - Maharashtra/13056/Satara

Office - 'Yashobal', Yashodanagar, Godoli, Near NH-4, Satara: - 415004.

Phone No: - 02162-237121, 271238/39/40, Fax : 02162-271239

E-mail id: - admin@yspmsatara.co.in, Website: www.yspmsatara.co.in

Prof. Dasharath Sagare
Founder President

Prof. Ajinkya Sagare
Vice-President

Mrs. Sadhana Sagare
Secretary

Ref. No.:- YSPM-YTC/ADMIN/

/2021-22

Date - 29-12-2021

PURCHASE ORDER

To,
POLOTECH SERVICES
Pune-411039
Mob. No7350556447

Subject - Purchase Order for ETC solar hot water system.

Ref - Your Quotation dated 28.12.21

Dear Sir,

With reference to the above subject and reference, we are pleased to place a purchase order for ETC solar hot water system

Sr. No.	Particulars	Qty.	Rate	Total
1	Supply of ETC 5000 LPD system	1	475000	4,75,000/-
	5 years warranty			
	[support - Electric water heating system]		Total	4,75,000/-
			GST	0
			Grand Total	4,75,000/-

(₹ Four Lakhs Seventy Five Thousand Only)

Terms & conditions-

1. **Delivery** : within 1 week from the date of purchase order at our campus.
2. **Payment** : 2,00,000/- advance payment & balance after successful installation.
3. **Duties, Taxes, Transportation & plumbing work** : All inclusive.
4. **Installation & Technical Support** : All inclusive.

Please send acceptance of this purchase order as early as possible.

Thanking you,

29/12/2021

S. D. Saha
SECRETARY

Yashoda Shikshan Prasarak Mandal, Satara

*Received
P.O.*



YAMAHA MOTOR COMPANY, LIMITED
1-4-1, Honcho, Matsuyama City, Ehime Prefecture, Japan
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1-4-1, Honcho, Matsuyama City, Ehime Prefecture, Japan

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YAMAHA MOTOR COMPANY, LIMITED
1-4-1, Honcho, Matsuyama City, Ehime Prefecture, Japan

TERMS AND CONDITIONS

TO
HONDA MOTOR CO., LTD.
P.O. BOX 1000
MOTOR CITY, OHIO 43102

Subject: Yamaha Motor Co., Ltd. (YMC) and Honda Motor Co., Ltd. (HMC) have entered into an agreement for the sale of Yamaha Motor Co., Ltd. (YMC) to Honda Motor Co., Ltd. (HMC).

YMC and HMC have entered into an agreement for the sale of Yamaha Motor Co., Ltd. (YMC) to Honda Motor Co., Ltd. (HMC). The terms and conditions of the sale are set forth in this agreement.

Item	Description	Quantity	Unit Price	Total Price
1	Yamaha Motor Co., Ltd. (YMC)	1	100,000,000	100,000,000
2	Yamaha Motor Co., Ltd. (YMC)	1	100,000,000	100,000,000
3	Yamaha Motor Co., Ltd. (YMC)	1	100,000,000	100,000,000
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Terms and conditions:

1. Delivery: The goods shall be delivered to the buyer at the buyer's expense.
2. Payment: The buyer shall pay the purchase price to the seller within the specified period.
3. Warranty: The seller warrants that the goods are free from defects and conform to the specifications.
4. Dispute Resolution: Any dispute arising out of this agreement shall be referred to arbitration.



EVACUATED TUBE COLLECTOR (ETC) TECHNOLOGY

- Get Average 50° to 60° C hot water at any time at almost zero recurring Cost.
- Once installed. No worry of frequent Maintenance
- Reduction of fossil energy consumption
- Substantial savings on conventional heating bills

INNER TANK MATERIAL	GI	SS 304
THICKNESS	2 MM	0.7 MM
COATING	EPOXY / CERAMIC	N.A
OUTER CLADDING	0.5 MM PRE ZINC COATED SHEET	
INSULATION	HIGH DENSITY 50 + 5 MM PUF INSULATION	
STRUCTURE	2 / 1.5 MM GALVANIZE IRON WITH POLY POWDER COATED	
FASTENER	HOT DEEP	
SOLAR GLASS TUBE	1.6 MM BOROSILICATE 3 LAYER VACUUM TUBES	
CONNECTION	1" COUPLER / 1.25" COUPLER	



FLAT PLATE COLLECTOR (FPC) TECHNOLOGY

- Thermosyphon & Forced Circulation Systems
- Custom - made design to suit specific applications
- BIS Approved Copper Collector
- Available in Various Sizes i.e. 100 Ltrs. Upto 10,000 Ltrs.
- Ideal for : Hotel, Luxuries Bungalows, Apartments, Hospitals, Resorts and Industries

INNER TANK MATERIAL	NON PRESURISED		PRESURISED	
	GI	SS 304	SS 304	MS
THICKNESS	2 MM	0.7 MM	2 mm	5 MM
COATING	EPOXY/ CERAMIC	NA	NA	EPOXY/ CERAMIC
OUTER CLADDING	0.5 MM PRE ZINC COATED SHEET			
INSULATION	HIGH DENSITY 50 ±5 MM PUF INSULATION			
STRUCTURE	M.S POWDER COATED			
INTER CONNECTION	HOSE PIPE		COPPER PIPE	

***Required Capacity wise space & Members (E.C. Non Pressurised)**

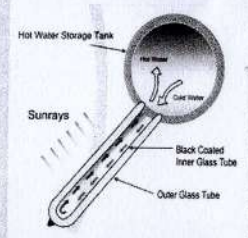
CAPACITY	100 LPD	150 LPD	200 LPD	250 LPD	300 LPD	500 LPD
NO. OF PERSON	1 to 2	3 to 4	4 to 5	5 to 6	6 to 8	8 to 12
AREA REQUIRED	5' x 7'	6' x 7'	7' x 7'	8' x 7'	9' x 7'	9' x 9'

FARMSON
 ENVIRO CARE

SOLAR WATER HEATER

DOMESTIC | INDUSTRIAL | INSTITUTIONAL

ETC GLASS TUBE SYSTEM



ADVANTAGE OF ETC SYSTEM

- Easy to get Temp. In hard Water ✓
- No Need to Service for long Time ✓
- Get Quick Result in Rainy & Cloudy Atmospheres ✓
- Higher Temp. Than FPC System ✓
- No Clogging & No Choking ✓
- ETC System is widely accepted in Cold Countries ✓
- ETC System is Cheaper than FPC System ✓

						
SAVE ELECTRICITY	LONG LIFE CAPACITY	ECO FRIENDLY	LOW MAINTENANCE	SAVE MONEY	PAYBACK PERIOD	AFTER SALES SERVICE

Polotech Services

Add: Sr. No 19/2 Shiv Ganesh Nagar, Dhawade Wasti, Bhosari, Pune - 411039
Mob:- 7350556447 Email id: yashwantdarekar1972@gmail.com
GSTIN / UIN : 27VQPS148B1ZA

QUOTATION

To,
Secretary,

Date:-28/12/2021

Yashoda Educational Campus Satara. (Hostel building)

Kind Attention : Mr Atul Sir

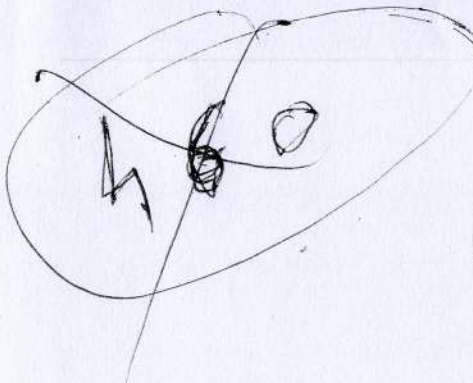
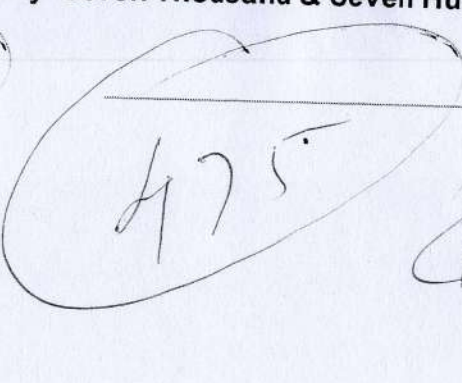
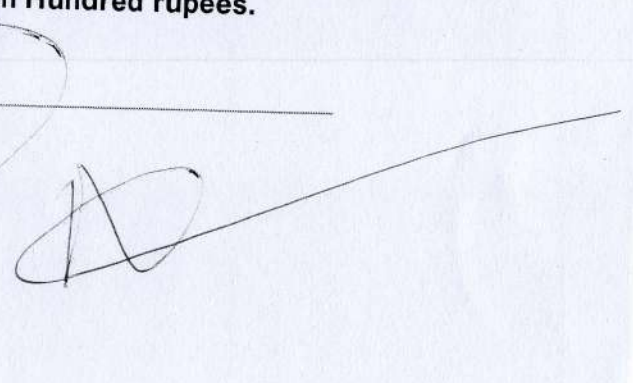
Dear Sir,

This has reference our personal discussion at your site for requirement of ETC solar hot-water system

Let me take this opportunity to thank you for the valuable inquiry and for the trust and interest in working our Solar work. we look forward a long term association with you.

Sr. No.	Particulars	Qty	Rate	Amount
1.	Supply of ETC 5000 LPD system.	As per requirement	4,97,700	4,97,700
			Total	4,97,700/-

Amount in word : Four lakh Ninty Seven Thousand & Seven Hundred rupees.

Terms and conditions

- **PAYMENTS** : 80 % in advance along with PO, 10% before dispatch the material & 10% after completion of work.
- **Validity** : Qtn valid for 7 days from given date
- **WORK PERIOD** : Period & Time for completion of work 15 - 20 days from giving advance amount date
- **Taxes** : + 5% GST extra applicable

Important Note : Cold water inlet & hot water outlet Piping in your scope. We take care for proper tooling at working but at the time of working any damage your building property we have not responsible pay for it.

Any other items not mentioned in above Quotation but required at the time of work will be charged extra.

We sincerely hope that this offer is in line with your requirement and if you have, any further clarifications please feel free to call on us and we will reply to the same at the earliest. We look forward for your esteemed order on us. Assuring you the best of our services at all times.

Thank you

Yours truly

Yashwant Darekar
7350556447

*5 Years Guarantee
No.*

2 mm GI Technical Details of 32 Tube 500 LPD Compact Systems

Model :500lpd FM32

EVACUATED TUBE COLLECTOR (TUBE)	
No of Tubes	32 Nos
Materiel Of Tube	Tube made of borosilicate Glass
Tube thickness	1.6 mm Three Targeted
Tube size and length	58 mm outer dia + .5 mm -00 mm and 2100 mm length
Stagnation Temperature	180 Degree C Maximum
Coating	Grade Al-N/Al Outer surface of inner tube selective black chrome
Hail Resistance/impact resistance	<25 mm dia
Vacuum of the tube	<=5 X 10Pa
Absorptivity (%ge) of the collector	> 92%
Water Output	Rated LPD At 60degree C Under normal sunny condition
INNER TANK	
Tank	GI 2 mm Jindal Epoxy Coated (JSW)/ESSAR
Welding	CO2 welding
Tank Inner coating	NA
Tank Size	L 2760mm X 560mm
Tank Wight	90Kg
INSULATION	
Thermal insulation Material	Puff
Thickness Of insulation	50 mm
Tank cladding	Pre Coated RAI 9002 off-white
Heat Loss	Over Night temperature loss 4- 6 degree
Electrical Heater	OPTIONAL 1 1/4" SOCKET AVAILABALE zinc coated
MISCELANEOUS	
Stand	GI 2 MM With Powder Coated
Nut Bolt	SS/ GI
Interface Between Dissimilar Materials	Special Silicon Rubber - Dia 58
Colours Available	Black and Red (Only Dish & stand)

Model: 500psi FMS2

TECHNICAL SPECIFICATIONS FOR BASKET	
Material: 304 Stainless Steel	Capacity: 500 LBS
Dimensions: 12" x 12" x 12"	Weight: 15 LBS
Pressure Rating: 500 PSI	Temperature Range: -20°F to 150°F
Construction: 304 Stainless Steel	Finish: Polished
Mounting: 4" x 4" Base	Accessories: None
Compliance: FDA Approved	Manufacturer: ABC Company
Part Number: 500psi FMS2	Year: 2023
Material: 304 Stainless Steel	Capacity: 500 LBS
Dimensions: 12" x 12" x 12"	Weight: 15 LBS
Pressure Rating: 500 PSI	Temperature Range: -20°F to 150°F
Construction: 304 Stainless Steel	Finish: Polished
Mounting: 4" x 4" Base	Accessories: None
Compliance: FDA Approved	Manufacturer: ABC Company
Part Number: 500psi FMS2	Year: 2023

KULKARNI SOLAR DYNAMICS
Tax Invoice

Hirannyadeep, Plot no- 7/8, Sangamnagar, Satara -415003 Mob: - 8830250129 /8600009044 GST IN/UIN: 27AAVHA0945F1Z7 State Name : Maharashtra, Code : 27 E-Mail : kulkarnisoldynamics@gmail.com	Customer company details:- YASHODA SHIKSHAN PRASARAK MANDAL (YSPM), NH- 4, S. No. 242/1, VN Rd, Wadhe, Maharashtra 415015
---	--

Sr.no	Description of Goods	HSN/SAC	Quantity	Rate/unit	Amount
1.	67KW SOLAR ROOFTOP SYSTEM Inverter =60KW +10KW , make -Kirloskar	85414011	1	459048=00	459048=00
2.	335 W panel , make -Kirloskar (67000W panel)	85414011	200	10050=00	2010000=00
3.	Other material like ACDB ,DCDB , EATHING MATERIAL ETC. , MAKE - ABB		1	150000=00	150000=00
	OUTPUT CGST = 2.5%				65476.20=00
	OUTPUT SGST = 2.5%				65476.20=00
	ROUND OFF				-0.40
					2750000=00

Amount Chargeable (in Words)

Twenty seven lakh fifty Thousand INR Only

E.& O. E

HSN/SAC	Taxable value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
	2619048=00	2.5%	65476.20=00	2.5%	65476.20=00	130952.40=00
Total	2619048=00		365476.20=00		65476.20=00	130952.40=00

Tax Amount (in words) : **One lakh thirty Thousand nine Hundred fifty two rupees and fourty paise INR Only**

Company's PAN : AAVHA0945F

Company's Bank Details

Bank Name : CANARA BANK CA A/C

A/C NO : 120000138781

Branch & IFS Code: SATARA & CNRB0015414

Hypothecated to Electronica Finance Limited

Declaration

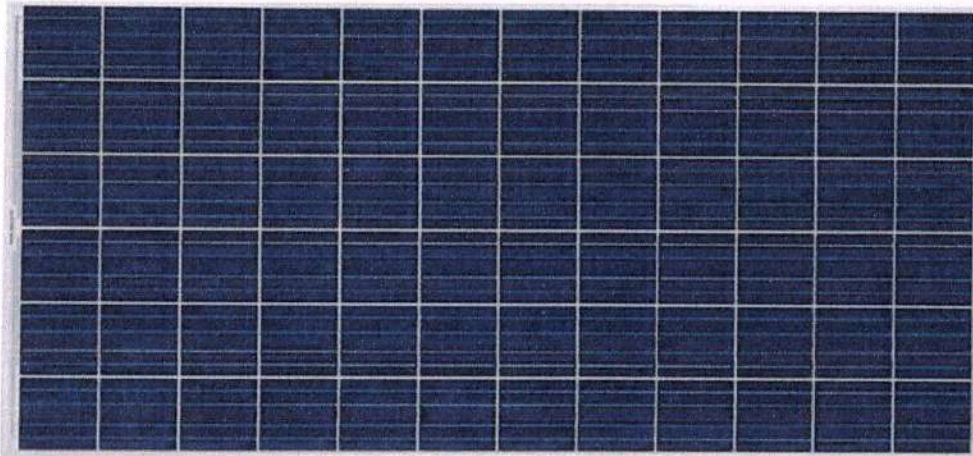
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Customer's Seal and Signature

For KULKARNI SOLAR DYNAMICS


 Authorised signatory

SOLAR MODULES



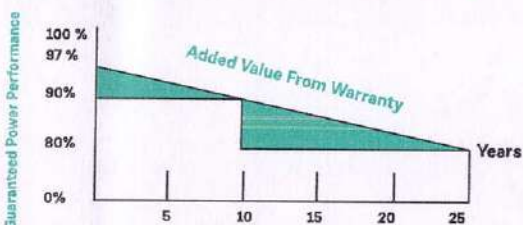
Polycrystalline: 335Wp | Mono Perc: upto 400Wp
DCR : 335Wp | MonoPerc Halfcut: 535Wp

**Designed For Optimal Use In Residential,
Commercial & Utility Scale Installations**

Product Features

- High power module using Polycrystalline, Mono Perc Solar Cells with High Conversion Efficiency
- High-Transmissivity, Tempered glass for enhanced stiffness and impact resistance
- Robust, Anodized Aluminum Frame for extended outdoor use
- 10 years 90% Power output warranty;
15 years 80% Power output warranty
- 100% Pre & Post lamination Electroluminescence inspection
- IP 67/IP68 Rated junction Boxes
- Positive Tolerance
- PID and saltmist corrosion resistance

Linear Performance Warranty



12 Years :
Limited Product Warranty

25 Years :
Linear Power Output Warranty

KIRLOSKAR SOLAR MODULES						
	KS 36 Series	KS 60 Series	KS 72 Series			KS 144 Series
Model No.	KS36P160	KS60P265	KS72P335	KS72P335	KS72MP400	KS144MP535
Cell Type	Multicrystalline			Multicrystalline DCR	Mono PERC	Mono PERC Half cut
Pmax* (W)	160	265	335	335	400	535
VOC (V)	22.5	38.92	46.42	46.42	48.01	49.47
Isc (A)	8.9	9.10	9.41	9.41	10.31	13.81
Vmax (V)	18.40	30.36	36.87	36.87	41.03	41.43
Imax (A)	8.7	8.59	9.10	9.10	9.76	12.92
Module Efficiency (%)	16.10	15.94	17.24	17.24	20.11	20.93
Power Tolerance	Positive Tolerance					
Module Dimensions (LxWxH) in mm	1485x665x34	640x990x35	1960x990x35	1961X991X40	1985X1002X40	2256X1133X35
Module Weight in Kg	15.2	17	21.5	21.5	21.8	27.65

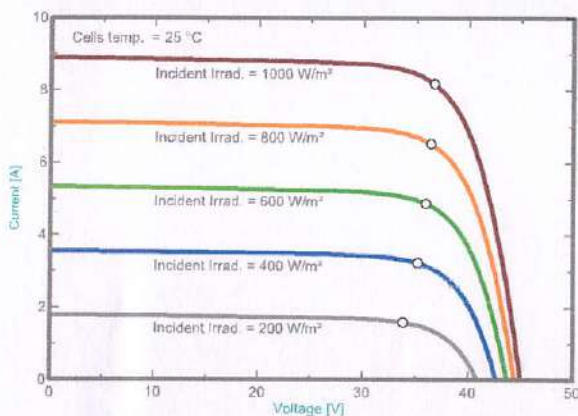
* Value @ Standard Test Conditions (STC): Temp. 25°C, Irradiance 1000 w/m², AM1.5*

* Please confirm mounting dimensions with our sales team before ordering

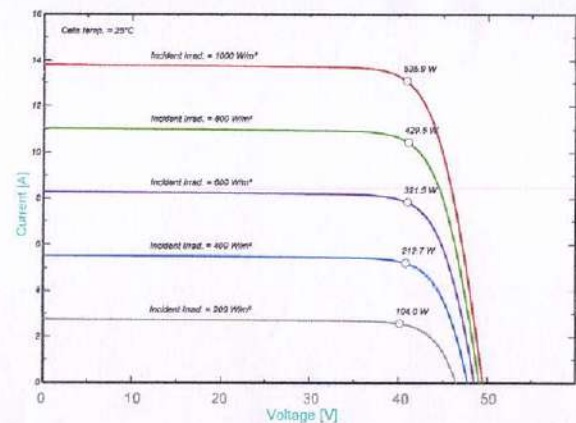
Thermal Characteristics		
Temp. Coefficients	Multicrystalline Modules	Monocrystalline Modules
Pmax	(-)0.3402%/°C	(-)0.2778%/°C
Voc	(-)0.2504%/°C	(-)0.2523%/°C
Isc	0.0287%/°C	0.076%/°C
NOCT	45 ± 2°C	
Operating Temp. Range	(-)40 to 85°C	

Mechanical Characteristics	
Front Glass	3.2mm Low Iron Textured Toughened Glass
Frame	Anodized Aluminum Frame
Junction Box	IP67 / IP68
Cable & Connectors	4 Sq. mm 1 meter long wire with MC4 connectors (for module 265 to 400 W) 4 Sq. mm 0.35 meter long wire with MC4 connectors (for module 535W & Above)

I-V Curve With Irradiance



535 I-V Curve With Irradiance



Kirloskar Solar Technologies Pvt. Ltd.
A Kirloskar Group Company

Training Centre Facility, Laxmanrao Kirloskar Road, Khadki, Pune - 411 003 (India).
Call: 83088 00595, 88382 91322 (South India)
Email: solarenergy@kirloskar.com, sales1@kirloskar.com
Website: www.kirloskarsolar.com

The Mark "Kirloskar" used in any form as prefix or suffix is owned by Kirloskar Proprietary Limited and Kirloskar Solar Technologies Pvt Ltd is the permitted user

Model no	KSG-III-40KN22-MC	KSG-III-50KN22-MX	KSG-III-60KN22-MC
Input Data(DC)			
Max.recommended PV power (For module STC)	60000W	75000W	90000W
Max.DC voltage	1100V	1100V	1100V
Start voltage	250V	250V	250V
Nominal voltage	600V	600V	600V
MPPT voltage range	200V-1000V	200V-1000V	200V-1000V
No. of MPP trackers	3	3	3
No. of PV strings per MPP tracker	3/3/3	4/3/3	4/4/4
Max. input current per MPP tracker	37.5A/37.5A/37.5A	50A/37.5A/37.5A	50A/50A/50A
Max. short-circuit current per MPP	45A	55A	55A
Output data (AC)			
AC nominal power	40000W	50000W	60000W
Max. AC apparent power	44400VA	55500VA	66600VA
Nominal AC voltage (range*)	220V/380V, 230V/400V (340-440V)	220V/380V, 230V/400V (340-440V)	220V/380V, 230V/400V (340-440V)
AC grid frequency (range*)	50/60Hz(45-55Hz/55-65Hz)	50/60Hz(45-55Hz/55-65Hz)	50/60Hz(45-55Hz/55-65Hz)
Max. output current	64.4A	80.5A	96.6 A
Adjustable power factor	0.8leading-0.8lagging	0.8leading-0.8lagging	0.8leading-0.8lagging
THDi	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency			
Max. efficiency	98.70%	98.70%	98.80%
European efficiency	98.50%	98.50%	98.50%
MPPT efficiency	99.90%	99.90%	99.90%
Protection Devices			
DC reverse polarity protection	Yes	Yes	Yes
DC Switch	Yes	Yes	Yes
AC/DC Surge protection	Type III/Type II	Type III/Type II	Type III/Type II
Insulation resistance monitoring	Yes	Yes	Yes
AC short-circuit protection	Yes	Yes	Yes
Ground fault monitoring	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes
Anti-islanding protection	Yes	Yes	Yes
Residual-current monitoring unit	Yes	Yes	Yes
AFCI protection	-	-	-
General Data			
Dimensions(W/H/D)	680/508/281mm	680/508/281mm	680/508/281mm
Weight	52kg	52kg	52kg
Operating temperature range	-25.+ 60 degree C	-25.+ 60 degree C	-25.+ 60 degree C
Night time power consumption	<1W	<1W	<1W
Topology	Transformerless	Transformerless	Transformerless
Cooling	Smart air cooling	Smart air cooling	Smart air cooling
Protection degree	IP65	IP65	IP65
Relative humidity	0-100%	0-100%	0-100%
Altitude	4000m	4000m	4000m
DC connection	114/MC4(optional)	114/MC4(optional)	114/MC4(optional)
AC connection	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal
Display	OLED+LED/WiFi+App	OLED+LED/WiFi+App	OLED+LED/WiFi+App
Interfaces: RS485/USB/Wi-Fi/GPRS/RF/LAN	Yes/Yes/Optional/Optional/Optional	Yes/Yes/Optional/Optional/Optional	Yes/Yes/Optional/Optional/Optional
Warranty	7 Warranty	7 Warranty	7 Warranty

Kirloskar Solar Technologies Pvt. Ltd.

A Kirloskar Group Company

Training Centre Facility, Laxmanrao Kirloskar Road, Khadki, Pune – 411 003 (India).
 Call: 83088 00595, 88382 91322 (South India)
 Email: solarenergy@kirloskar.com, sales1@kirloskar.com
 Website: www.kirloskarsolar.com





YASHODA SHIKSHAN PRASARAK MANDAL, SATARA

Regi. No. - Maharashtra/13056/Satara

Office- 'Yashobal', Yashodanagar, Godoli, Near NH-4, Satara: - 415004.

Phone No: - 02162-237121, 271238/39/40, Fax : 02162-271239

E-mail id: - admin@yspmساتارا.co.in, Website: www.yspmساتارا.co.in

Prof. Dasharath Sagare
Founder President

Prof. Ajinkya Sagare
Vice-President

Mrs. Sadhana Sagare
Secretary

Ref. No.:- YSPM-YTC/ADMIN/

/2016-17

Date - 06-08-2021

PURCHASE ORDER

To,
KSD Kulkarni Solar Dynamics
Satara -415003
Mob. No. 8830250129

Subject - Purchase Order for Solar rooftop system.

Ref - Your Quotation dated 06.08.2021.

Dear Sir,

With reference to the above subject and reference, we are pleased to place a purchase order for Solar rooftop system.

Solar rooftop system, Solar Pumping, Led lights

Calculation for solar rooftop requirement

MSEDCL CONSUMER NO	190199026230
CONSUMER NAME	YSPM,SATARA
ADDRESS	SNO-242/1,WADHE
CONTACT NO	8390011111
TOTALSANCTIONED LOAD	111KW
YEARLYCONSUMPTIONUNITS	133076 UNITS
MONTHLYCOSUMPTIONOFUNITS (AVG)	11089 UNITS
YEARLYCOSUMPTIONOF UNITS (A+B+C) ZONE	97047 UNITS
MONTHLYCOSUMPTIONOFUNITS (A+B+C) ZONE (AVG)	8087 UNITS
TOTAL YEARLYAMOUNTPAIDTO MSEDCL	1596912/-
TOTALMONTHLYAMOUNTPAIDTO MSEDCL	133076/-
TOTAL YEARLYAMOUNTPAIDTO MSEDCL(A+B+C) ZONE	1164564/-

MSEDCL(A+B+C)ZONE(AVG)	
AVG RATE PER UNIT	12/-
DAILY CONSUMPTION OF UNITS (A+B+C) ZONE (AVG)	270 UNITS
MINIMUM MINIMUM GENERATION FROM SOLAR ROOFTOP PER KW PER YEAR	1440 UNITS
REQUIREMENT OF ROOFTOP SYSTEM	67KW
POWER PURCHASE AGREEMENT WITH MSEDCL	20 YEARS

Solar rooftop system, Solar Pumping, Led lights

Commercials

Sr. No.	Particulars	Qty.	Rate	Total
1	67 kw solar rooftop system inverter =60KW+8KW	1		26,19,048/-
2	Fabrication and other work			
	MSEB lessening including 3 years service		Total	26,19,048/-
			GST	65,476/-
			Grand Total	27,50,000/-

(₹ Twenty Seven Lakhs fifty thousand Only)

Terms & conditions-

1. **Delivery** : within 3-4 week from the date of purchase order at our campus.
2. **Payment** : 10% advance payment & rest payment payable as per process of work installation.
3. **Duties & Taxes** : All inclusive.
4. **Installation & Technical Support** : All inclusive.
5. **Turn key solar project shall be handed over to YSPM after completion.**

Please send acceptance of this purchase order as early as possible.

Thanking you,

Received Payment = 2525000/-

Total Receivable = 2750000 - 2525000

= 225000/-

Generation +
meter

+ 27140/-

252140/-

CHECK LIST FOR CHECKING OF GRID CONNECTED ROOFTOP SOLAR POWER INSTALLATION WITH NET METEING APPRTMENTS

Name of Consumer: Yashoda Shikshan Pravarak Mandal, Satara.

Consumer number 190199026²³⁰ Division Satara Sub-division Satara (R)

Sanction load 110.8 kW Sanction Demand 67 kW Tariff 170 HT-VIII B

Consumer Contact details: 8888825426

Reference:

Sr. No	Particulars	Remarks
1	Separate Lighting arrester provided before solar pnel as per IS 3043-1987	Yes
2	Separate earthing provided for lighting arrester	Yes
3	Separate earthing provided for solar modules and module mounting structure	Yes
4	DC fuse provided for protection after solar module	Yes
5	Array junction box provided with built in surge protector device	Yes
6	Grid tie inverter provided with rated capacity of kWp	72 kW
7	Protection provided after grid tie inverter with MCCB/MCB with rated current A	Yes
8	ACDB provided with built in surge arrester	Yes
9	TOD meter provided for recording the solar power generation is as per standard	Yes
10	ELCB/RCCB of rated capacity provided for protection	Yes
11	MCB provided before load side with rated current	Yes
12	Net metering cabinet with ELCB/RCCB protection of rated current A with sealing arrangement	Yes 160 A
13	Earthing provided to metering cabinet	Yes
14	All metallic bodies are earthed	Yes
15	Net metering provided with specification as per MSEDCL and tested at lab	Yes
16	In event of grid or supply failure protection for islanding of roof top solar PV system operated	Yes
17	In event of single phasing of grid protection for islanding of rooftop solar PV system operated	Yes
18	In case of battery and DG backup separate wiring done and change over switch is provided	Yes

Consumer

Representative

Ad. E.E/A.E (O&M)

Subdivision Assistant Engineer

MSEDCL

Section Office - Satara



(A Govt. of Maharashtra Undertaking)

CIN : U40109MH20055GC153645

PHONE NO : 02162-244640
FAX NO : 02162-245541
E-mail : sesatara@mahadiscom.in
Website : www.mahadiscom.in

Administrative Building,
Vidyut Bhavan,
1st floor, Krishnanagar,
Satara - 415 003

SE/STRC/T/HTC-2623/New Solar Net Metering/(21-22)/No 7027 Dt. 8 NOV 2021.

To,
The Executive Engineer,
MSEDCL,
O & M Dn, Satara.

Sub:- Technical Feasibility Report in respect of M/s Yashoda Shikshan Prasarak Mandal at S. No. 242/1, Wadhe, Satara Tal. Satara, Dist. Satara for solar net metering arrangement with 67 KW, as existing HT consumer having connected load of 110.8 KW & Contract Demand of 125 KVA. (Consumer No-190199026230)

Ref: - 1] Commercial Circular No. 258 dated 25 Jan. 2016.
2] Consumers new application as detailed below dtd 28.10.2021.

In connection with the above M/s Yashoda Shikshan Prasarak Mandal at S. No. 242/1, Wadhe, Satara Tal. Satara, Dist. Satara has applied for solar net metering arrangement with connected load 67 KW vide ref. no.2. Existing HT consumer having connected load of 110.8 KW & Contract Demand of 125 KVA.

Types of Generation	Proposed Capacity (KW)
Existing Soalar PV System	000 KW
Proposed Soalar PV System	67 KW
Total	67 KW

HTC Details: M/s Yashoda Shikshan Prasarak Mandal at S. No. 242/1, Wadhe, Satara Tal. Satara, Dist. Satara
Connected Load :110.8 KW
Contract Demand :125 KVA
Voltage Level : 22 KV
Consumer No- 190199026230

The copy of application is enclosed herewith. It is requested to submit their project report (DPR), Technical Feasibility Report, item wise estimate, single line diagram solar panel installation plan/drawing neat sketch showing point of injection. TFR must include Consumer T/F capacity, Feeder name, source Sub station details, Source sub station power T/F capacity, cumulative solar load connected on P/T till date and neat sketch showing point of injection to this office. Metering specifications should be as per approval from EE Testing. The Net Meter & Solar generation Meter shall be installed at such location in the premise of the eligible consumer as would enable to easy access to the MSEDCL for meter reading & is to be shown on the point of supply drawing. Also give self explanatory note if required.

Encl- As above.

(Gautam N. Gaikwad)
Superintending Engineer
Satara Circle

Copy to-

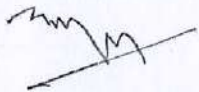
- 7027
- 1) M/s Yashoda Shikshan Prasarak Mandal at S. No. 242/1, Wadhe, Satara Tal. Satara, Dist. Satara It is requested to keep ready the plot layout single line diagram & neat sketch showing point of injection to The Executive Engineer, Satara division for needful compliance, along with The Executive Engineer Testing division Satara It is also requested to submit the technical specifications of PV module, Inverter & other allied equipments along with their test report duly sign by competent authority Anx-II & Electrical Contractors valid licence copy.
 - 2) The Executive Engineer, Testing Dn. Satara. Point of supply and metering details of above consumer may be fixed immediately.
 - 3) The Dy. Executive Engineer, Satara R S/Dn. submission of estimate and TFR at an earliest.

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

O & M DIVISION, SATARA

TECHNICAL FESIBILITY REPORT FOR CONNECTING SOLAR ROOF TOP PV SYSTEM

A Details Of Applicant		
1	NAME OF APPLICANT	M/S Yashoda Shikshan Prasarak Mandal
2	CONSUMER NO	190199026230
2	CATEEGORY & TARIFF APPLICABLE	HT-IXB
3	ADDRESS OF APPLICANT	S. No. 241/1 A/P Wadhe Tal. Dist Satara
4	MOBILE NO. OF APPLICANT	8390011111
5	POLE NO.	
6	NAME OF SECTION OFFICE	Vaduth
7	PROCESSING / REGISTER FEE PAYMENT DETAILS	Amount Rs. 5900
		Receipt No. & dt. 1599134944 Dt. 21/10/2021
8	SPV GENERATION ALREAY CONNECTED (CAPACITY IN KW/KVA)	0 KW
B Distribution Transformer Details		
1	NAME OF THE DTC & DTC CODE NO.	Yashoda DTC 1181071
2	DTC CAPACITY IN KVA	200 KVA
3	VOLTAGE RATIO	22/0.40
4	TOTAL CONNECTED LOAD ON THE DTC (IN KW/KVA)	111KW/125KVA
5	ADD. LOAD SANCTIONED SO FAR (IN KW/KVA)	0
6	ALREADY PROPOSED LOAD (IN KW/KVA)	0
7	TOTAL LOAD ON DTC $X=4+5+6$ (IN KW/KVA)	111 KW
8	SPV GENERATED ALREADY CONNECTED (CAPACITY IN KW/KVA)	0
9	PROPOSED SPV GENERATORS (CAPACITY IN KW/KVA)	67 KW
10	TOTAL GENERATION $Y=8+9$ (CAPACITY IN KW/KVA)	67 KW
11	DIFFERENCE BETWEEN LOAD AND GENERATION CAPACITY $Z=X-Y$	44KW
C FEEDER DETAILS		
1	NAME OF THE 11 KV FEEDER	22 KV Limb Feeder
2	NAME OF THE 33/11 KV S/S FROM WHICH 11 KV FEEDER EMANATING	33/22 KV Wadhe Substation
3	TYPE & SIZE OF THE CONDUCTOR OF FEEDER	55 sqmm ACSR
4	CURRENT CARRING CAPACITY OF THE FEEDER	160A
5	TOTAL CONNECTED DTC CAPACITY ON THIS FEEDER IN KVA	25000 KVA
6	SPV GENERATORS CONNECTED ON THIS FEEDER IF ANY & THEIR CAPACITY	3 no.s 55KW capacity SPV
7	MAX. LOAD REACHED ON THE FEEDER IN AMPS. & KVA	51A
8	REMARKS	Feasible



A. A. More
Assistant Engineer
M.S. No. 241/1 A/P Wadhe Tal. Dist Satara



(A Govt. of Maharashtra Undertaking)
CIN : U40109MH20055GC153645

PHONE NO : 02162-244640
Engineer FAX NO : 02162-245541
E-mail : sesatara@mahadiscom.in
Website : www.mahadiscom.in

Office of the Superintending
Administrative Building,
Vidyut Bhavan, 1st floor
Krishnanagar Satara - 415 003

No. SE/STRC/T/HTC-2623/RT/Solar/ (21-22) **NO 974** Date: **8 FEB 2022**

To,
The Executive Engineer
M.S.E.D.C.L.
O & M Division, Satara.

Sub:- Estimate for giving solar connectivity/installation of roof-top solar PV system new connection with connected load of 67 KW for solar roof top net metering in r/o M/S Yashoda Shikshan Prasarak Mandal, Satara At S. No. 242/1, Wadhe, Satara Tal & Dist- Satara HTC- 190199026230.

Ref:- 1) Application No. Nil dtd 28.10.2021
2) SE/STRC/T/HTC-2623/Solar net metering/07027 Dt. 08.11.2021.
3) EE/TD/STR/T/HTC/Net Meter/Solar/HTC--2623/02779 Dt. 31.12.2021 received (13.01.2022)
4) EE/STR/T/21-22/No. 05975 Dt. 25.11.2021

In accordance with the powers delegated to the undersigned vide C.S. no. 40 of GO-II Government of Maharashtra notification for new Renewable Policy dated 20.07.2015 and methodology for its implementation on dated 09.09.2015, MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) regulations, 2015 on 10th September, 2015, Commercial Circular No. 258 Dt. 25.01.2016 & 322 Dt. 21.01.2020 by MSEDCL for installation of Solar PV systems on Rooftop & Commercial Circular No 291 Dt. 29 June 2017 the estimate as detailed below is technically sanctioned for giving solar connectivity / installation of roof-top solar PV system new connection with connected load of 67 KW for solar roof top net metering in r/o M/S Yashoda Shikshan Prasarak Mandal, Satara At S. No. 242/1, Wadhe, Satara Tal & Dist- Satara HTC- 190199026230

under DDF scheme 1.3% Supervision Charges.

Scheme :- DDF. [By recovering 1.3% supervision charges]
Amount of Estimate :- Rs 2,01,460/- [Rs. Two Lakh One Thousand Four Hundred & Sixty only.]
Only] 1.3% Supervision Charges Rs 2,620 /-
Est. Sanction No. :- SE/STRC/T/HT-DDF/Solar Net/STR-Dn/ 11 / (21-22)/ dtd 02.02.2022.
Remarks :- (Work by party)

Work should be started only after payment of total amount mentioned in Load Sanction order.

After completion of work, the Executive Engineer, Division office should certify that,

- 1) All the works are verified & construction is carried out as per MSEDCL standard method of construction.
- 2) Materials used are as per the sample approved & of standard quality.
- 3) The installation is inspected by the Electrical Inspector & permission /drawing approval is given.
- 4) All the original vouchers / certificates / documents of purchased & utilized material is to be verified and the same are to be preserved with your office & attested Xerox copies along-with completion report be forwarded to this office.

The work should be taken up on payment of necessary charges by the consumer at this office. The removed material is to be credited to MSEDCL store. This sanction is valid only for six months from the date of this letter.

(Gautam N. Gajikwad)
Superintending Engineer
O & M Circle, Satara

Encl .As above

Copy to

- 1) M/S Yashoda Shikshan Prasarak Mandal, Satara At S. No. 242/1, Wadhe, Satara Tal & Dist- Satara HTC- 190199026230.
- 2) The Dy. Executive Engineer, MSEDCL, Satara R S/dn.
- 3) The Manager (F&A), MSEDCL Satara Circle.

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN : U40109MH20055GC153645

The Technical estimate sanction for Solar Roof Top Net Metering in respect of M/S Yashoda Shikshan Prasarak Mandal Satara at S. No. 242/1, Wadhe, Satara Tal. & Dist- Satara HTC- 190199026230 for 67 KW Solar PV system on 22 KV Voltage level under 1.3 % Supervision Charges DDF scheme.

Existing Solar Capacity [CL : 000 KW]

Proposed Solar Capacity proposed [67 KW]

Total Solar Generation Capacity [67 KW]

Under DDF Scheme [1.3% Normative charges]

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11KV/110V, -/5A, Class-0.2s, DLMS category 'B', Four Quadrant, TOD Tri vector meter with ABT features with latest MSEDCL specifications as per EE Testing report	Nos.	1	140000.00	140000.00
2	LTAC, Three phase, 4W, TOD Solar Generator meter having specifications as per as per EE Testing report (LT AC, three Phase, Four Wire, 40-200/5A, 3X440V, Class-0.5s CT opreated fully static & AMR compatible TOD Tri - Vector energy meter with optical & RS 232 port)Embedded meter	Nos.	1	22500.00	22500.00
3	Sundries such as Nut-Bolts Clamps etc.	L.S.	1	12680.00	12680.00
					175180.00
15 % Labour charges (Line by party)					26277.00
Grand Total					201457.00
Say Rs					201460.00
1.3 % Supervision charges on esti. cost Rs.					2618.98
Say Rs. (a)					2620.00
	Testing charges of TOD Trivector Meter with ABT Features Meter (b)	Nos.	1	1100.00	1100.00
	Testing charges of Solar Gen. Meter (c)	Nos.	1	1100.00	1100.00
	Testing charges of Kiosk.....(d)	Nos.	0	9000.00	0.00
	Testing charges of LT & PTs.....(e)	Nos.	0	1000.00	0.00
G.S.T. on (a), (b), (c), (d) & (e) @ 18.0 %					867.60
Total G.S.T. Say Rs.....[d]					868.00

Actual metering checked As per cost data 2019-20

Consumer has paid Rs. 1,38,140/- dtd. 25.01.22 against Dec 21 energy bill
Rates are as per the Cost Data CE Infra(19-20) hence no arrears pending stand
* as per market rates

02-02-22
Dy. Exe. Engineer
Circle Office Satara

03.02.22
Exe. Engineer (Admin.)
Circle Office Satara

3/2/22
Manager (F & A)
Satara Circle

Superintending Engineer
Satara Circle, Satara



(A Govt. of Maharashtra Undertaking)

CIN : U40109MH20055GC153645

PHONE NO : 02162-244640
FAX NO : 02162-245541
E-mail : sesatara@mahadiscom.in
Website : www.mahadiscom.in

Office of the Superintending Engineer
Administrative Building,
Vidyut Bhavan, 1st floor
Krishnanagar, Satara - 415 003

No. SE/STRC/T/HTC-2623/RT/Net metering/Solar/(21-22) No

9 7 3, Date: 08 FEB 2022

To,
M/S Yashoda Shikshan Prasarak Mandal, Satara
At S No. 242/1, Wadhe
Tal & Dist- Satara
HTC- 190199026230.

Sub: - Permission for connectivity/ installation of roof-top solar PV system of 67 KW for net metering in r/o M/S Yashoda Shikshan Prasarak Mandal At S No. 242/1, Wadhe Tal & Dist- Satara HTC- 190199026230.

- Ref:** - 1) Application No. Nil dtd 28.10.2021
2) SE/STRC/T/HTC-2623/Solar net metering/07027 Dt. 08.11.2021.
3) EE/TD/STR/T/HTC/Net Meter/Solar/HTC--2623/02779 Dt. 31.12.2021 received (13.01.2022)
4) EE/STR/T/21-22/No. 05975 Dt. 25.11.2021

Dear Sir,

In view of the Government of Maharashtra notification for new Renewable Policy dated 20.07.2015 and methodology for its implementation on dated 09.09.2015, MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) regulations, 2015 on 10th September, 2015 and circular 258 by MSEDCL for installation of Solar PV systems on Rooftop or any mounting structure by the existing/new consumers of MSEDCL in their premises for captive use so as to align the provisions as per the Regulations, 2014, the undersigned is pleased to permit for connectivity/ installation of roof-top solar PV system of 67 KW for net metering in r/o M/S Yashoda Shikshan Prasarak Mandal, Satara At S No. 242/1, Wadhe Tal & Dist- Satara HTC- 190199026230. The address as mentioned above with the terms and conditions as below.

Particulars	Connected Load (KW)	Contract Demand (KVA)
Existing Load	111	125
Roof-top Solar PV system	67	

Terms and Conditions:

1. **VALIDITY:** The validity of this sanction is for a period of 6 (Six) months from the date of issue of this letter and you will ensure to make the necessary payments within 1 (one) month and further ensure that you are ready o for connectivity/ installation of roof-top solar PV system within the period.

UTR No- 204032699691 / 9/2/22

2. PAYMENTS:

- a. As you have given consent for executing the works involved for releasing the power supply by paying 1.3 % supervision charges on the estimated cost to MSEDCL, hence permission is hereby granted to execute the works by engaging the Licensed Electrical Contractor (LEC) subject to the terms and conditions which are enclosed with the load sanction order.
- b. In view of the above, you are requested to pay the following charges.

3.

Sr. No.	Particulars	Amount in Rs.
1	Net Meter application charges	5000.00
2	Fixed Service connection charges	00.00
3	1.3% charges on estimated cost	2,620.00
4	Security Deposit	NIL
5	Testing Charges of CTs, PTs & Meter	2,200.00
6	18 % GST Charges	1,768.00
	TOTAL Rs. :	11,588.00

a. The Xerox copy of payment made may be submitted to this office and the concerned division office under a covering letter and acknowledgement of which may be obtained if applicable.

d. Bank Details are as follows:-Account Name- MSEDCL Satara., Name Of Bank-Bank Of India, Powai Naka, Satara Bank A/C No. 130820100000199 IFSC Code – BKID0001308, A/C Type- CD & you must send RTGS/NEFT details through SMS on cell No. 7875768531.

4. **Metering:** At present your load is supplied on 22 kV Volts with HT Connection, Net meter will be installed on HT side of Transformer as per MSEDCL rules & regulation.

CT specifications

5/5A single core single ratio 0.5s class 10 VA Burden-No change

PT specifications

22 kV/110 V single core single ratio 0.5 class 10 VA burden-No change

Net meter specification

11KV/110V, -/5A, Class-0.2s, DLMS category 'B', Four Quadrant, TOD Tri vector meter with ABT features with latest MSEDCL specifications as per EE Testing report under ref no.3

LT solar Generator meter

5. LTAC, Three Phase , 4W, TOD Solar Generator meter having specifications as per EE Testing (LT AC, three Phase, Four Wire, 40-200/5A, 3X440V, Class-0.5s CT operated fully static & AMR compatible TOD Tri - Vector energy meter with optical & RS 232 port) Embedded meter.
6. **Installation:** Your installation arrangement/drawing should be as per letter at ref. no. 1 & is required to be get approved from EE Testing STRC office and the Electrical Inspector.

7. CLEARANCE:

- a. As per MSEDCL Rules and IE Standards

8. Grid standards and safety:

- a. You can install a Rooftop Solar PV System with or without battery. However, if an eligible consumer opts for connectivity with the battery Back-up, the inverter should have separate back-up wiring to prevent the battery/decentralized generation power from flowing into the Grid.
 - b. The consumer shall be responsible for the safe operation, maintenance and rectification of any defect in the Rooftop Solar PV system up to the point of Net-meter.
 - c. The consumer shall provide appropriate protection for islanding of the Roof-top Solar PV System from the Network of Distribution Licensee in the event of Grid or supply failure of supply and the same shall be verified/ certified by Testing Division in consultation with concerned Sub-division/circle.
9. The Net Meter and the Solar Generation Meter shall be installed at such locations in the premises that MSEDCL should have easy access to the Meter for meter reading.

10. The unadjusted net credited Units of electricity as at the end of each financial year shall be purchased by MSEDCL at its Average Cost of Power Purchase as approved by the Commission for that year, within the first month of the following year, At the beginning of each Settlement Period, the cumulative quantum of injected electricity Carried forward will be re-set to zero.
11. In case the Consumer is within the ambit of TOD tariff, the electricity consumption in any time block, i.e. peak hours, off-peak hours, etc., shall be first compensated with the quantum of electricity injected in the same time block. Any excess injection over and above the consumption in any other time block in a Billing Cycle shall be accounted as if the excess injection had occurred during off-peak hours. 9.7 MSEDCL shall compute the amount payable to the Eligible Consumer for the excess solar energy purchased by it as specified in Regulation 9.5, and shall provide credit equivalent to the amount payable in the immediately succeeding Billing Cycle
12. The Consumer shall have recourse, in case of any dispute with MSEDCL regarding billing, to the mechanism specified by the Commission under Sections (5) to (7) of the Act for the redressal of grievances.
13. The Solar energy generated by Consumer in a Net Metering Arrangement under these Regulations shall not be eligible for REC.
14. The Solar generation data shall be monitored quarterly so as to ascertain whether the effluence of Solar plant is commensurate with the capacity utilization factor (CUF) determined by MERC from time to time.
15. **Net metering Connection Agreement:**
The consumer shall execute a Net metering Connection Agreement on Stamp Paper of Rs.200/- with MSEDCL as per Regulation No. 9 of MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015. A Copy of Net metering Connection Agreement is enclosed as Annexure-I.
16. **Incentives & Penalties:**
 - i. The consumer opts for Net metering by installation of Rooftop Solar PV system for his partial requirement of load, such consumer shall be eligible for incentives, which may be applicable as per MERC Tariff Order for MSEDCL consumer; only to the extent it uses MSEDCL supply.
 - ii. The Eligible consumer shall be liable to pay the penalty charges which may be applicable as per MERC tariff order, amended from time to time, if the power factor is not maintained at required level as per State Grid Code.
 - iii. In case of default in payment of any of the charges otherwise payable by a eligible consumer /person, MSEDCL shall have the right to dislocate the arrangement of net metering after giving an intimation of 24 hours to such consumer/ person and in such circumstances, MSEDCLs shall not be liable to pay any compensation to such consumer or person for the loss that such consumer or person may sustain on any account.
17. The connectivity of Rooftop solar PV installation net metering systems shall be governed by CEA(Technical Standard for Connectivity of the Distributed Generation Resources) Regulations, 2013, CEA (Measures relating to Safety and Electricity Supply), Regulations, 2010 and MERC state Grid code 2006 or as may be specified in future.
18. MSEDCL shall have the right to disconnect the Roof top Solar PV System from its Network at any time in the event of any threat of accident or damage from such System to its distribution system so as to avoid any accident or damage to it. However, the Eligible Consumer may use his Roof-top Solar PV System in islanding mode for his own consumption.
19. The Roof-top Solar PV System meets the applicable norms for being integrated into the Distribution Network, and that the Eligible Consumer shall maintain the System accordingly for the duration of this Agreement.
20. **Technical and Inter-connection Requirements:**
 - i. The metering arrangement and the inter-connection of the Roof-top Solar PV System with the Network of the Licensee shall be as per the provisions of the Net Metering Regulations and the technical standards and norms specified by the Central Electricity Authority for connectivity of distributed generation resources and for the installation and operation of meters.
 - ii. The Eligible Consumer agrees, that he shall install, prior to connection of the Roof-top Solar PV System to the Network of the Licensee, an isolation device (both automatic and in built within inverter and external manual relays); and the Licensee shall have access to it if required for the repair and maintenance of the Distribution Network.

- iii. The Eligible Consumer shall furnish all relevant data, such as voltage, frequency, circuit breaker, isolator position in his System, as and when required by the Licensee.

21. Safety:

- i. The equipment connected to the Licensee's Distribution System shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS), as the case may be, and the installation of electrical equipment shall comply with the requirements specified by the Central Electricity Authority regarding safety and electricity supply.
- ii. The design, installation, maintenance and operation of the Roof-top Solar PV System shall be undertaken in a manner conducive to the safety of the Roof-top Solar PV System as well as the Licensee's Network.
- iii. If, at any time, the Licensee determines that the Eligible Consumer's Roof-top Solar PV System is causing or may cause damage to and/or results in the Licensee's other consumers or its assets, the Eligible Consumer shall disconnect the Roof-top Solar PV System from the distribution Network upon direction from the Licensee, and shall undertake corrective measures at his own expense prior to re-connection.
- iv. The Licensee shall not be responsible for any accident resulting in injury to human beings or animals or damage to property that may occur due to back-feeding from the Roof-top Solar PV System when the grid supply is off. The Licensee may disconnect the installation at any time in the event of such exigencies to prevent such accident.

22. Other Clearances and Approvals:

- i. The Eligible Consumer shall obtain any statutory approvals and clearances that may be required, such as from the Electrical Inspector or the municipal or other authorities, before connecting the Roof-top Solar PV System to the distribution Network.

23. Period of Agreement, and Termination:

This Agreement shall be for a period for 20 years, but may be terminated prematurely by

1. By mutual consent; or
2. By the Eligible Consumer, by giving 30 days' notice to the Licensee;
3. By the Licensee, by giving 30 days' notice, if the Eligible Consumer breaches any terms of this Agreement or the provisions of the Net Metering Regulations and does not remedy such breach within 30 days, or such other reasonable period as may be provided, of receiving notice of such breach, or for any other valid reason communicated by the Licensee in writing.

24. Access and Disconnection:

- i) The Eligible Consumer shall provide access to the Licensee to the metering equipment and disconnecting devices of Roof-top Solar PV System, both automatic and manual, by the Eligible Consumer
- ii) If, in an emergent or outage situation, the Licensee cannot access the disconnecting devices of the Roof-top Solar PV System, both automatic and manual, it may disconnect power supply to the premises.
- iii) Upon termination of this Agreement under Clause 5, the Eligible Consumer shall disconnect the Roof-top Solar PV System forthwith from the Network of the Licensee.

25. Liabilities:

- i. The Parties shall indemnify each other for damages or adverse effects of either Party's negligence or misconduct during the installation of the Roof-top Solar PV System, connectivity with the distribution Network and operation of the System.
- ii. The Parties shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or goodwill, or for indirect, consequential, incidental or special damages including, but not limited to, punitive or exemplary damages, whether any of these liabilities, losses or damages arise in contract, or otherwise.

26. Commercial Settlement:

The commercial settlements under this Agreement shall be in accordance with the Net Metering Regulations. The Licensee shall not be liable to compensate the Eligible Consumer if his Rooftop Solar PV System is unable to inject surplus power generated into the Licensee's Network on account of failure of power supply in the grid/Network.

27. The existing metering System, if not in accordance with the Net Metering Regulations, shall be replaced by a bi-directional meter (whole current/CT operated) or a pair of meters (as per the definition of 'Net Meter' in the Regulations), and a separate generation meter may be provided to measure Solar power generation. The bi-directional meter (whole current/CT operated) or pair of meters shall be installed at the inter-connection point to the Licensee's Network for recording export and import of energy. The uni-directional and bi-directional or pair of meters shall be fixed in separate meter boxes in the same proximity.
28. The Licensee shall issue monthly electricity bill for the net metered energy on the scheduled date of meter reading. If the exported energy exceeds the imported energy, the Licensee shall show the net energy exported as credited Units of electricity as specified in the Net Metering Regulations, 2015. If the exported energy is less than the imported energy, the Eligible Consumer shall pay the Distribution Licensee for the net energy imported at the prevailing tariff approved by the Commission for the consumer category to which he belongs.

29. Connection Costs:

- a. The Eligible Consumer shall bear all costs related to the setting up of the
- b. Roof-top Solar PV System, excluding the Net Metering Arrangement costs.

30. Dispute Resolution:

- i. Any dispute arising under this Agreement shall be resolved promptly, in good faith and in an equitable manner by both the Parties. The Eligible Consumer shall have recourse to the concerned Consumer Grievance Redressal Forum constituted under the relevant Regulations in respect of any grievance regarding billing which has not been redressed by the Licensee.

All conditions as per MSEDCL 258 & MERC regulation regarding Roof Top solar net metering is binding on this sanction.

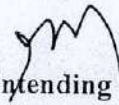
This is only Permission for installation of roof-top solar PV system for net metering, after the payment of all the arrears/recovery of the connection & completion of all formalities as above & MSEDCL rules & regulation commercial circular no. 258 Dt. 25.01.2016, release for the connectivity (synchronization) of Roof top system with MSEDCL grid will be given.

31. Load Sanction Estimate No.: Sanction No. SE/STRC/T/RT/Solar/ (21-22)/ 11 Dt.02.02.2022.

Estimate is technically sanctioned for Rs. 2,01,460/- under DDF.

Thanking you

Yours faithfully


Superintending Engineer
Satara Circle

Copy to:

1. The Executive Engineer, MSEDCL, O & M Division, SataraSubmit WCR report after finalization of accounting of the material installed & the kiosk should be installed near Main gate.
2. The Executive Engineer (STRC-Testing), MSEDCL, Testing Division, Satara..... submit the pre-release report & test the meter as per MSEDCL Rules & regulation.
3. The Dy. Executive Engineer, MSEDCL, O&M Sub-Division, Satara R S/Dn.
4. Manager (STRC -F&A), MSEDCL, circle office Satara:.....for information & needful please.

The following information is for your information only. It is not intended to constitute an offer of insurance or any other financial product. The information is provided for your information only and should not be relied upon for any purpose. The information is provided for your information only and should not be relied upon for any purpose. The information is provided for your information only and should not be relied upon for any purpose.

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The information is provided for your information only and should not be relied upon for any purpose. The information is provided for your information only and should not be relied upon for any purpose. The information is provided for your information only and should not be relied upon for any purpose.

Your Name

Address

City

State

Zip

Phone

Fax

E-mail



महाराष्ट्र MAHARASHTRA

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ZP 874216

पंजीकरण क्रमांक (Article No.)	५४५५५५
विक्रेता का नाम (Seller's Name)	श्रीमती आशा सुनिल पांडेकर
प्राप्तकर्ता का नाम (Buyer's Name)	श्रीमती आशा सुनिल पांडेकर
प्राप्तकर्ता का पता (Buyer's Address)	परवाना क्र २३०९०२९
मुद्रांक विक्रेता का नाम (Stamp Seller's Name)	श्रीमती आशा सुनिल पांडेकर
मुद्रांक विक्रेता का पता (Stamp Seller's Address)	परवाना क्र २३०९०२९
मुद्रांक विक्रेता का नाम (Stamp Seller's Name)	श्रीमती आशा सुनिल पांडेकर
मुद्रांक विक्रेता का पता (Stamp Seller's Address)	परवाना क्र २३०९०२९
मुद्रांक विक्रेता का नाम (Stamp Seller's Name)	श्रीमती आशा सुनिल पांडेकर
मुद्रांक विक्रेता का पता (Stamp Seller's Address)	परवाना क्र २३०९०२९

TREASURY OFFICE SATARA

 22 FEB 2022
 B
 HEAD CLERK



[Handwritten Signature]

या कारणासाठी त्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक विक्रेताकडून घेतलेल्या मुद्रांकाचा वापर करून घेतला आहे.

ANNEXURE - 3

Net Metering Connection

Agreement

This Agreement is made and entered into at (location) Satara on this (date) 17
---- day of (month) March (year) 2022 between the Eligible Consumer
(Name) M/s. Yashoda Shikshan Prasarak Mandal, Satara
having premises at (address) S.No. 242/1, Madhe, Tal. & Dis. Satara
and Consumer No +96+99-026230 as the first Party,

AND

The Distribution Licensee MSEDCL (hereinafter referred to as 'the
Licensee') and having its Registered Office at (address) O&M Division
Satara
-----as second Party of this Agreement;

Whereas, the Eligible Consumer has applied to the Licensee for approval of a Net
Metering Arrangement under the provisions of the Maharashtra Electricity Regulatory
Commission (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations,
2015 ('the Net Metering Regulations') and subsequent amendments and sought its
connectivity to the Licensee's Distribution Network ;

And whereas, the Licensee has agreed to provide Network connectivity to the Eligible
Consumer for injection of electricity generated from its Roof-top Renewable Energy
Generating System of 6.7 kilowatt;
Both Parties hereby agree as follows:-

Eligibility:

The Roof-top Renewable Energy Generating System meets the applicable
norms for being integrated into the Distribution Network, and that the Eligible
Consumer shall maintain the System accordingly for the duration of this
Agreement.

2. Technical and Inter-connection Requirements:

The metering arrangement and the inter-connection of the Roof-top Renewable
Energy Generating System with the Network of the Licensee shall be as per the
provisions of the Net Metering Regulations and the technical standards and
norms specified by the Central Electricity Authority for connectivity of
distributed generation resources and for the installation and operation of
meters.

The Eligible Consumer agrees, that he shall install, prior to connection of the Roof-
top Renewable Energy Generating System to the Network of the Licensee, an
isolation device (both automatic and in built within inverter and external
manual



relays); and the Licensee shall have access to it if required for the repair and maintenance of the Distribution Network.

The Licensee shall specify the interface/inter-connection point and metering point.

The Eligible Consumer shall furnish all relevant data, such as voltage, frequency, circuit breaker, isolator position in his System, as and when required by the Licensee.

3. Safety:

The equipment connected to the Licensee's Distribution System shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS), as the case may be, and the installation of electrical equipment shall comply with the requirements specified by the Central Electricity Authority regarding safety and electricity supply.

The design, installation, maintenance and operation of the Roof-top Renewable Energy Generating System shall be undertaken in a manner conducive to the safety of the Roof-top Renewable Energy Generating System as well as the Licensee's Network.

If, at any time, the Licensee determines that the Eligible Consumer's Roof-top Renewable Energy Generating System is causing or may cause damage to and/or results in the Licensee's other consumers or its assets, the Eligible Consumer shall disconnect the Roof-top Renewable Energy Generating System from the distribution Network upon direction from the Licensee, and shall undertake corrective measures at his own expense prior to re-connection.

The Licensee shall not be responsible for any accident resulting in injury to human beings or animals or damage to property that may occur due to back-feeding from the Roof-top Renewable Energy Generating System when the grid supply is off. The Licensee may disconnect the installation at any time in the event of such exigencies to prevent such accident.

4. Other Clearances and Approvals:

The Eligible Consumer shall obtain any statutory approvals and clearances that may be required, such as from the Electrical Inspector or the municipal or other authorities, before connecting the Roof-top Renewable Energy Generating System to the distribution Network.

Period of Agreement, and Termination:

This Agreement shall be for a period for 20 years, but may be terminated prematurely

- (a) By mutual consent; or
- (b) By the Eligible Consumer, by giving 30 days' notice to the Licensee;
- (c) By the Licensee, by giving 30 days' notice, if the Eligible Consumer breaches any terms of this Agreement or the provisions of the Net Metering Regulations and does not remedy such breach within 30 days, or such other reasonable period as may be provided, of receiving notice of such breach, or for any other valid reason communicated by the Licensee in writing.

6. Access and Disconnection:

The Eligible Consumer shall provide access to the Licensee to the metering equipment and disconnecting devices of Roof-top Renewable Energy Generating System, both automatic and manual, by the Eligible Consumer.

If in an emergent or outage situation, the Licensee cannot access the disconnecting devices of the Roof-top Renewable Energy Generating System, both automatic and manual, it may disconnect power supply to the premises.

6.3 Upon termination of this Agreement under Clause 5, the Eligible Consumer shall disconnect the Roof-top Renewable Energy Generating System forthwith from the Network of the Licensee.

7. Liabilities:

The Parties shall indemnify each other for damages or adverse effects of either Party's negligence or misconduct during the installation of the Roof-top Renewable Energy Generating System, connectivity with the distribution Network and operation of the System.

The Parties shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or goodwill, or for indirect, consequential, incidental or special damages including, but not limited to, punitive or exemplary damages, whether any of these liabilities, losses or damages arise in contract, or otherwise.

8. Commercial Settlement:

The commercial settlements under this Agreement shall be in accordance with the Net Metering Regulations.

The Licensee shall not be liable to compensate the Eligible Consumer if his Roof-top Renewable Energy Generating System is unable to inject surplus power generated into the Licensee's Network on account of failure of power supply in the grid/Network.

The existing metering System, if not in accordance with the Net Metering Regulations, shall be replaced by a bi-directional meter (whole current/CT operated) or a pair of meters (as per the definition of 'Net Meter' in the Regulations), and a separate generation meter may be provided to measure Solar power generation. The bi-directional meter (whole current/CT operated) or pair of meters shall be installed at the inter-connection point to the Licensee's Network for recording export and import of energy.

The uni-directional and bi-directional or pair of meters shall be fixed in separate meter boxes in the same proximity.

The Licensee shall issue monthly electricity bill for the net metered energy on the scheduled date of meter reading. If the exported energy exceeds the imported energy, the Licensee shall show the net energy exported as credited Units of electricity as specified in the Net Metering Regulations, 2015. If the exported energy is less than the imported energy, the Eligible Consumer shall pay the Distribution Licensee for the net energy imported at the prevailing tariff approved by the Commission for the consumer category to which he belongs.

Connection Costs:

The Eligible Consumer shall bear all costs related to the setting up of the Roof-top Renewable Energy Generating System, excluding the Net Metering Arrangement costs.

Dispute Resolution:

Any dispute arising under this Agreement shall be resolved promptly, in good faith and in an equitable manner by both the Parties.

The Eligible Consumer shall have recourse to the concerned Consumer Grievance Redressal Forum constituted under the relevant Regulations in respect of any grievance regarding billing which has not been redressed by the Licensee.

In the witness where of Ajinkya D. Sagare (name) for and on behalf of Eligible Consumer and Shri. Gautam N. Gaikwad (name) for and on behalf of MSEDCL agree to this agreement.

VICE-PRESIDENT

Yashoda Shikshan Prasarak Mandal

Ajinkya D. Sagare
on behalf of Eligible Consumer

Shri. Gautam N. Gaikwad
for and on behalf of **MSEDCL**

Witness 1:

Witness 1:

Witness 2:

Witness 2:

Gautam N. Gaikwad
Superintending Engineer
M.S.E.D.C.L. Satara Circle

[Signature]
Executive Engineer
Maharashtra State Electricity Distribution Co. Ltd.
Satara Circle



MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.

TESTING DIVISION SATARA.

(A Government of Maharashtra Undertaking).

CIN: U40109MH2005SGC153645.



"Vidyut Bhavan", MSEDCL,
Krishnanagar, SATARA -415003.
E-mail: eetsatara@gmail.com



EE/TD/STR/T/HTC/Net-Meter/Solar/HTC-2623/

002779

Date:

31 DEC 2021

To,
The Superintending Engineer,
O&M Circle, MSEDCL,
Satara.

Sub: Roof top-Solar system of **67 Kw** under net metering Arrangement specifications in r/o Existing HT Connection of **M/s. Yashoda Shikshan Prasarak Mandal at S.No. 242/1, Wadhe, Satara, Tal Satara, Dist.- Satara HTC No.- 190199026230 CL/CD: 111 KW/ 125 kVA.**

- Ref:** 1) SE/STRC/T/HTC-2623/Solar net Meter/21-22/7027 Dated 08.11.2021.
2) Commercial Circular No. 322 Dt. 21.01.2020
3) Commercial Circular No. 291 Dt. 29.06.2017.
4) CE/Testing/HT-EHV/Metering /Circular/CM-CF/8378 dtd.16/4/2018.
5) CE/Testing/HT Solar rooftop/ABT/07/6413 Dtd. 25/02/2020

M/s. Yashoda Shikshan Prasarak Mandal at S.No. 242/1, Wadhe, Satara, Tal Satara, Dist.- Satara HTC No.- 190199026230 has applied for **67 kW** Roof-top Solar PV system under Net Metering arrangement. (As per Ref. No (1)).

The existing HT consumer is connected on **22 kV** feeder. The contract demand and connected load of existing HT connection is **CL: 111 kW** and **CD: 125 kVA** respectively for Hotel activity. The Existing and Proposed Consumer metering details for Solar Roof top Net metering is as under:-

		Existing Main Metering Cubicle Details.	Proposed Metering Main Cubical at substation Details for Net Metering.
		CTs	22kV, 5/5 A, CL: 0.5s, 10 VA.
Main Meter	PTs	22kV/110 V, 50VA, 0.5.	No Need to Change
	HT TOD Meter Main	Secure make, 11 kV/110 V, - /5 A, Class - 0.5s, category C HT TOD Meter Sr. No- X1084015	11kV/110V,-/5A, Class-0.2s, DLMS category 'B', Four Quadrant, TOD Tri Vector meter with ABT features with latest MSEDCL specifications. (one No.)

Proposed Solar Generation Metering System

Meter Details	Meter Specification	CT Specifications	Quantity
Three phase IT-CT operated TOD Meter (67KW)	LT AC, Three Phase, Four Wire, 40-200 / 5 Amps, Class-0.5s CT operated fully Static & AMR compatible TOD Tri - Vector energy Meters with Optical & RS 232 Port	Embedded meter	One

Meter and CTs should be as per latest specifications of MSEDCL.

P.T.O.

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The following discrepancies / suggestions which are needs to be attended (if not proper) before installation of Net Metering for rooftop solar PV System:

1. Details in respect of the existing Solar panel & their utilization. Also furnish the detail regarding any permission taken from concerned & Grid connectivity, if any.
2. In the existing shed of **HTMK** should be with provision of electric plug point, fan and tube light fitting, shall be provided for metering to facilitate & routine testing work.
3. Total 9 Nos. of earth pits are required for HT metering cubical which needs to be meshed i.e. interconnected at bottom of each pit to get effective earth resistance. Same earth pits be connected separately by using copper strip of size 20 mm x 4 mm to following equipment.
 - a. CT body and PT body four pits (Two earth pits each for PT and CT separately).
 - b. CT Secondary Earthing One pit.
 - c. PT Secondary Earthing One pit.
 - d. Incoming HT Cable Earthing One pit.
 - e. Outgoing HT Cable Earthing One pit.
 - f. Cubical Body Earthing One pit.

Earthing strips should be visible and not be concealed in foundation and should have tap arrangement for watering the pits.


4. All holes including opening near Inlet/Outlet of HT cable must be closed properly by using M-Seal/Epoxy compound or any other filling material.
5. Lightning arrester should be provided at the incoming/ tapping DP stature for protecting of HT metering cubicle. Separate two no's of earthing pit should be provided; these pits should be isolated from the earthing grid.
6. Except metering all other HT/LT line, MSEDCL installations if available in consumer's premises be shifted/removed before release of HT supply.
7. The consumer may be asked to install good quality static ammeter and voltmeter on LT side Incomer panel to record all three phase currents and voltage during annual testing and load test.
8. Isolation and proper protection arrangement matching with the load demand shall be provided immediately after the metering.
9. Neutral wires **should not be connected commonly** on LT side of consumer distribution box/panel where MSEDCL (grid) supply and solar supply is proposed to be synchronized. The neutral should be isolated for solar side and MSEDCL (grid) side with separate earthing pits for MSEDCL supply and solar supply.
10. **The consumer should provide physical isolation in n addition to electronic/electrical isolation is to be provided between Solar supply and grid supply with lockable switch arrangement**, which is manually operated isolating switch before the interconnection point on solar side, shall meet the following requirements:
 - i) Allow visible verification that separation has been accomplished;
 - ii) Include indicators to clearly show open and closed positions;
 - iii) Be capable of being reached quickly and conveniently twenty four hours a day by MSEDCL personnel without requiring clearance from the applicant;
 - iv) Be capable of being locked in the open position;
 - v) May not be rated for load break nor may have feature of over-current protection;
 - vi) Be located at a height of at least 2.44 m above the ground level.
11. The consumer should provide appropriate protection for islanding of roof top solar PV system, from MSEDCL network in the event of failure of grid or MSEDCL supply.
12. **No voltage relay, Under Voltage, Over Voltage, Single Phase preventer protection should be provided to the grid side LT (4-pole) breaker, in the case of MSEDCL supply failure this breaker will operate and isolate the Solar PV system from the grid.**
13. The consumer should comply with the provisions of Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013 notified dt 30th September, 2013.

P.T.O.

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14. Consumer has to submit the certificate regarding proper working of islanding system and electrical safety of the same duly signed and certified by the licensed electrical contractor and any other agency executing work.
15. The electrical network with appropriate protection scheme (i.e. proposed SLD) should be approved from the Electrical Inspector and the charging permission from electrical inspectorate needs to be obtained before commissioning of Net metering arrangement.
16. The solar generation meter, LT CT operated as per MSEDCL specifications, as per clause No.8.7 & 8.8 of Comm Circular 322 to be installed for RPO mechanism and also to ascertain whether the efficiency of Solar plant is commensurate with the capacity utilization factor(CUF) determined by MERC from time to time. This meter will be of appropriate capacity as per declared generation capacity of Roof Top Solar Unit.
17. Solar Generation Meter **should be installed at easy accessible locations near to the Net meter.** The Generation metering system specifications shall be incorporated for measurement of cumulative solar generation parameters.
18. The consumer should submit the approved SLD of solar PV system with arrangement of islanding scheme with Net metering arrangement, solar generation metering etc.
19. Separate lightning arrestor with separate earthing should be provided before solar panel as per IS 3043-1987.
20. The provisions and other terms & conditions as per Commercial Circular No.322 dtd.21.01.20 may please be verify/observed.
21. **Provide AB Switch/Isolator/RMU (as the case may be) on electrical structure of the consumer switchyard before metering installation.**
22. As per Guidelines issued vide Commercial Circular no 291, all non SOP cases, viz new load request, startup power, Single point Connectivity shall be approved by competent authority at HO. The CT Ratio of such exceptional cases and cases not covered in circular under ref. no 5 such as non-commensurate CT which may attract CT error compensation factor (If required) etc., will be decide by CE Testing.

This is submitted for your kind information and needful action, please.


(S B Marulkar)

Executive Engineer,
Testing Division, Satara.

Copy f.w.c.s to: The Executive Engineer, O&M Division, Satara.

Copy to: 1) The Dy. Executive Engineer, O&M Sub-division, Satara Rural

2) **M/s. Yashoda Shikshan Prasarak Mandal at S.No. 242/1, Wadhe, Satara, Tal Satara, Dist.- Satara**

3) M.F.



MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
(A Govt of Maharashtra Undertaking)

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Krishnanagar, Satara - 415 003

No. SE/STRC/T/HTC-2623/Solar Net Meter/ (20-21)/

Date: 25 MAR 2022

No 2160

To,
The Executive Engineer
MSEDCL, O & M Division
Satara.

Sub: Release for installation of solar net metering for connectivity/ installation of Roof-top Solar PV system of 67 KW for net metering in r/o M/S Yashoda Shikshan Prasarak Mandal Satara at S No. 242/1, A/p- Wadhe Tal & Dist- Satara,(HTC- 190199026230).

- Ref:** - 1) Commercial Circular no 258 dt.25.01.16 & Commercial circular No 322 dated 21 Jan 2020.
2) Application No. Nil on Dt. 28.10.2021.
3) SE/STRC/T/HTC-2623/Solar net metering/07027 Dt. 08.11.2021.
4) EE/TD/STR/T/HTC-2623/ Solar net metering /02779 Dt.31.12.2021.
5) EE/STR/T/21-22/No. 05975 Dt. 25.11. 2021.
6) SE/STRC/T/HTC-2623/Solar net metering/0973 & 0974 Dt. 08.02.2022
7) EE/STR/Tech/21-22/01391 dated 15.03.2022.
8) Email from The EE Testing Division, Satara dated 22.03.2022

In connection with above cited subject, Permission for connectivity/ installation of roof-top solar PV system of 67 KW was issued for solar net metering vide letter under ref. no.6. Now the consumer has completed the necessary conditions for installation of solar net metering for connectivity/ installation of roof-top solar PV system of 67 KW for net metering in r/o M/S Yashoda Shikshan Prasarak Mandal, Satara at S No. 242/1, A/p- Wadhe Tal & Dist- Satara,(HTC- 190199026230) for self use for company purpose as follows.

Particulars	Conn. Load (KW)	Contract Demand (KVA)
Existing Load of HTC	111 KW	125 KVA
Roof top Solar System	67 KW	

The Consumer has completed the following formalities: -
1) PAYMENT:

Sr. No.	Particulars	Amount in Rs.	Amount in Rs.
a	Net meter Application Charges	5000/-	R. No. 129408591114 Dt.21.10.2021
b	1.3% Sup. charges on estimated cost	2,620/-	R. No. 02431141 Dt.09.02.2022
c	Security Deposit	Nil	NIL
d	Testing fees GST charges @ 18%	2200/- 1,768/-	R. No. 02431142 Dt.09.02.2022
	TOTAL Rs. :	11,558/-	

Hence the permission for release the Solar PV system of 67 KW for net metering in r/o M/S Yashoda Shikshan Prasarak Mandal, Satara at S No. 242/1, A/p- Wadhe Tal & Dist- Satara,(HTC- 190199026230) is hereby granted subject to following conditions:

2. **Metering:** At present your load is supplied on 22 kV Volts with HT Connection, Net meter will be installed on HT side of Transformer as per MSEDCL rules & regulation.

CT specifications

5/5A single core single ratio 0.5s class 10 VA Burden-No change

PT specifications

22 kV/110 V single core single ratio 0.5 class 50 VA burden-No change

Net meter specification

New 11KV/110V, -/5A, Class-0.2s, DLMS category 'B', Four Quadrant, TOD Tri vector meter with ABT features with latest specifications as per EE Testing report

LT solar Generator meter

As per EE Testing report (LT AC, three Phase, Four Wire, 40-200/5A, 3X440V, Class-0.5s CT operated fully static & AMR compatible TOD Tri - Vector energy meter with optical & RS 232 port

3] PERMISSION FROM ELECTRICAL INSPECTOR

Received permission from vide Electric Inspector, Satara Vide letter No. Nil .

4] TEST REPORT:

Received Test Report dated 22.03.2022 prior to charging of connection.

- 5] **AGREEMENT:** The Agreement for contract demand solar net metering for 67 kW has been executed on 17th March 2022.

6] Submit NSC Report to HT Billing section of Satara Circle.

- If there is an existing LT connection, the energy bill should be prepared on the same day and issued to the consumer. This new HT connection should be released only after disconnection of any other LT supply and recovery of the energy bill / arrears.
- You are requested to observe the remaining formalities as per the letter from Executive Engineer (Testing-STRC) and installed solar Net meter to HT supply side & Solar Generator Meter at LT side, under intimation to this office.
- Please note that, metering is made strictly as per the provision indicate in Circular No. 104 dt. 3.2.88 from Technical Member, MSEDCL, Mumbai and Department / H. O. Circular (Com.) 484 from T.D. (Dist.) Mumbai & commercial circular No 258 dated 25 Jan 2016 & commercial circular No 322 dated 21 Jan 2020..

7] Any previous connection / sub meter in the same premises should be permanently disconnected and arrears in this premise should be recovered before releasing the connection.

8] All points raised by E.E. Testing are to be complied before the installation of net meter.

9] Any type of recovery i.e. under sect.126, 135 should be recovered prior to release.

10] This release for installation of Solar Net Metering & Solar Generator Meter only.

11] Recovery of the Construction activity bill / bill must be checked before release.

(Gautam N Gaikwad)
Superintending Engineer
MSEDCL, Satara Circle

Copy to:

1] M/S Yashoda Shikshan Prasarak Mandal, Satara at S No. 242/1, A/p- Wadhe Tal & Dist- Satara,(HTC- 190199026230) It is requested to depute your representative & Electrical Contractor at the time of replacement of net meter & solar generator meter charging.

2] The Executive Engineer (STRC-Testing), MSEDCL, Testing Division, Satara

.....Please arrange for replacement of existing meter by net meter & installation of TOD Generator Meter after satisfactory test results of the 'Inverter' provided for Roof-top Solar PV system, as per Commercial Circular No. 258, dated 25 Jan 2016 & commercial circular No 322 dated 21 Jan 2020.

3] The Dy. Executive Engineer, MSEDCL, O & M Sub-Division, Satara R S/Dn.

..... It is requested to personally present during charging. Reset the MD counter of Main & Check meter; take all zone wise readings of Solar Net Meter's import & Export parameters, and Solar Generator [TOD] meter, immediately after charging the metering unit. After charging Net meter & LT TOD Solar Generator meter, submit report within three days to this office.

4] The Manager (STRC -F&A), MSEDCL, Satara..... for information.