







Pondicherry University gets a 2.4 MW solar plant

The rooftop solar plant, commissioned by Amp Energy India, will supply about 40% of the university's energy requirement and help offset around 2,900 tons of carbon emissions every year.

SEPTEMBER 16, 2021 UMA GUPTA

OMERCALLINGSTRILLY ROOTOPSEAR RELEMBER



Solar plant at Pondicherry University

Amp Energy India

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Vice President Inaugurates Solar Power Plant At Pondicherry University



New Delhi: The Vice President, Shri M. Venkaiah Naidu today called upon states to promote the setting up of manufacturing plants for solar PV cells and modules to accelerate their production in India.

Observing that India still relies heavily on imported components such as solar cells and modules, he stressed the importance of 'Atma Nirbharta' in solar energy through active participation of the states. He also called for encouraging small players in the industry in this regard.

Noting that India's potential for growth in the renewable energy sector over the next few years, Shri Naidu said that the lack of a trained force is a bottleneck in our exponential growth in the sector. He suggested investing in training and upskilling the workforce in adopting the latest technologies and cited the instance of the scheme of 'Surya Mitras'.

Inaugurating a 2.4 Megawatt capacity solar power plant at Pondicherry University in the Union Territory of Puducherry, he expressed his concern over climate change and its impact. Shri Naidu emphasised that green energies such as solar, wind and small hydro offer a viable alternative to meet our growing energy needs.

Observing that India was fast becoming a global leader in 'energy transition', he noted that with over 40 Gigawatts of installed solar capacity, India is ranked fifth globally in solar power capacity.



He asks varsities to take up research on renewable energy

Vice-President Venkaiah Naidu on Monday said green energies offered a viable alternative to meet the growing needs of the country while being sustainable in the long run.

Dedicating to the nation the 2.4 MW rooftop solar power plant commissioned in Pondicherry University, Mr. Naidu said that solar energy in particular had shown the most promise in recent years. This preference for solar plants and solar energy among institutions and people was a very good and welcome sign.

Referring to the Inter-governmental Panel on Climate Change (IPCC) report, he said it cautioned about the rise in global temperature exceeding 1.5 degrees celsius. "Climate change is not a futuristic phenomenon and we are already experiencing it. The next few years are going to be very crucial for our collective action to mitigate climate change," he said.

Noting that India was endowed with vast solar potential, the Vice-President said the National Institute of Solar Energy (NISE) had assessed the country's solar potential to be about 748 GW, assuming 3% of the wasteland area to be covered by solar PV modules. This was a great opportunity waiting to be explored to provide reliable electricity to our remote areas, to reduce carbon emissions and to achieve energy security.

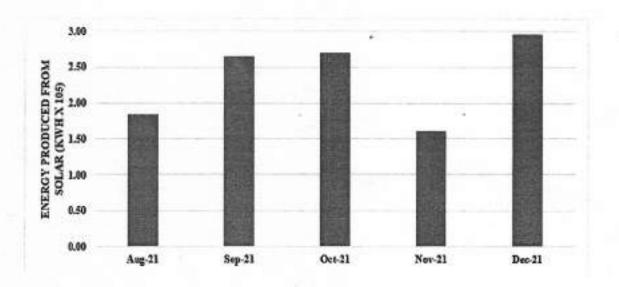


पांडिच्चेरीविश्वविद्यालय/PONDICHERRY UNIVERSITY

विद्युत स्कंध/ELECTRICAL WING

वी.मुरुववेलु/V. MOUROUGAVELOU सहायक अभियंता/Assistant Engineer आर.वी.नगर/R.V.NAGAR,कालापेट/KALAPET पुतुञ्जेरी/PUDUCHERRY-605 014

The Solar Power produced at Pondicherry University Main Campus for August 2021-Dec 2021 from the installed 2.4 MWh rooftop solar power plant.



Total Energy production from Solar in kWh from August 2021 to December 2021 = 1175006.78 (4231 Gigajoules)

Remarks:

The installed solar power is one of the largest affordable and clean energy generations in an educational institution in India.

The rooftop solar plant caters to nearly 15% of the university's energy requirement (compared with Pre-COVID level energy consumption) and helps offset 2,900 tons of carbon emission annually on average.

There is a provision that the excess/unutilized power during summer/winter holidays can be sent to the Pondicherry grid for the Pondicherry union territory use.

Thanking you

Yours faithfully

(V. Mourougavelou)

ASSISTANT ENGINEER (ELECT.)
PONDICHERRY UNIVERSITY
R. Venkataraman Nagar, Kalapet
Puducherry - 605 014.



Madanjeet School of Green Energy Technologies, Pondicherry University, Puducherry

Location : Pondicherry University, Puducherry

 Site Area
 : 12248 m²

 Built up Area
 : 4728 m²

 Air-conditioned Area
 : 2414 m²

 Non Air-conditioned Area
 : 2314 m²

 Typology
 : Institutional

Energy consumption reduction : 85.88 kWh/ m²/yr (38.65% reduction in energy

consumption compared to GRIHA benchmark)

Renewable Energy : Rated capacity of solar PV installed is 15 kWp

GRIHA provisional rating : 3 Stars Year of Completion : 2015

The following strategies were adopted to reduce the building impact on the natural environment:

Sustainable Site Planning:

- · Excavated top soil was reused within the Pondicherry University campus.
- Total 132 trees were cut, 62 were protected and 16 were transplanted out of 210 existing trees. Compensatory
 plantation was done in more than 1:4 ratio, by planting 660 new trees within the Pondicherry University boundary.
- Sitting areas for students were created underneath the existing preserved trees.

Water management:

- Reduction of 51.34% from the GRIHA base case has been demonstrated in building water use by installing water
 efficient flush and flow fixtures.
- Reduction of 30% from the GRIHA base case has been demonstrated in landscape water demand through use of
 efficient landscape methodologies and native plant species.

Energy Optimization:

- Energy Performance Index has been reduced by 38.65% compared to GRIHA benchmark.
- 15 kWp solar PV panels have been installed in the project which meets 54% of interior lighting requirement.
- · For achieving visual comfort:
 - » Energy efficient artificial lighting including sensors was installed as per ECBC norms.
 - » 53.63% of the habitable spaces are day lit and meet the daylight factors as prescribed by the National Building Code of India.
- For achieving visual comfort:
 - » Double glazed windows with a Solar Heat Gain Coefficient of 0.25; cavity wall and roof insulation were installed as a part of building envelope.

Sustainable building materials:

- Fly-ash bricks containing 40% fly-ash content by volume have been used in the interior and exterior walls.
- 30% of cement was replaced with fly-ash by weight in the structural concrete.
- Pozzolana Portland Cement indicating use of 30% fly-ash content by weight has been used in plaster and masonry mortar.
- · Granite stone and vitrified tiles were used as flooring material in the building.

Integrated Design Team:

Client : Pondicherry University, Puducherry
Project Coordinator : Mukesh & Associates, Salem
Principal Architect : Mukesh & Associates, Salem
Landscape Architect : Mukesh & Associates, Salem
Project Management Consultant : Rites Ltd., Gurgaon

Structural Consultant : Mukesh & Associates, Salem
Electrical Consultant : Mukesh & Associates, Salem
Green Building Design and Certification : Mukesh & Associates, Salem



GREEN RATING FOR INTEGRATED HABITAT ASSESSMENT

Madanjut School of Green Energy Technology Pondicherry University, Plotucherry has been provisionally certified with a

'Three Star'

rating under

GRIHA



An initiative of Ministry of New and Renewable Energy Government of India and The Energy and Resources Institute

Date of James 5th Dec '2017

Chief Executive Officer
GRIHA Council

PONDICHERRY UNIVERSITY ELECTRICAL WING

AGREEMENT

No. PU/ELW/EMS /20-21/€1

Dt: 24.11.2020

NAME OF WORK

"Supply, Installation, Testing and : Commissioning of Energy Management Systems in all the buildings at Pondicherry University Campus".

2 NAME OF THE AGENCY : M/s. FOX Solutions Private Limited,

M-9, MIDC Area, Ambad, Nashik - 422010. Maharashtra, India.

3. ESTIMATED COST : Rs.21,24,629/-

4. TENDERED AMOUNT : Rs.17,99,580/-

5. PERCENTAGE OF TENDER

(-)15% Below

6. TIME ALLOWED : Two Months

7. DATE OF COMMENCEMENT

: 10 December 2020

DATE OF COMPLETION 8.

: 10 February 2021

9. ACTUAL DATE OF COMPLETION

EXTENSION OF TIME GRANTED IF ANY : 10.

11. STIPULATION OF MATERIALS

: NIL

12. PLACE OF DELIVERY

: NIL

CLAUSE 12 DEVIATION LIMIT 13.

: 30%

£14. EARNEST MONEY DEPOSIT

: Rs.42,500/-

15. SECURITY DEPOSIT (5%) : Rs.90,000/-

35. PERFORMANCE CUARANTEE (5%)

: Rs.90,000/-

This agreement contains 4 pages which are serially hand numbered

CONTRACTOR

REGISTPAR

B-chipmuns

PONDICHERKY UNIVERSITY PUDUCHERRY - 605 014.



Contract

Contract No: GEMC-511687730163504

Generated Date:16-Feb-2021

Organisation Details

Type:

Central Autonomous

Ministry:

Ministry of Human Resource Development

Department:

Department of Higher Education

Organisation Name:

Pondicherry University

Office Zone:

South

Buyer Details

Designation:

Asst Engineer

Contact No.:

0413-2654267-267

Email ID: GSTIN: ae.electrical.pyu@nic.in 34AAAJP1298F1Z5

Address:

R. Venkataraman Nagar Kalapet Pondicheny 606014,

PONDICHERRY, PUDUCHERRY-605014, India

Financial Approval Detail

IFD Concurrence:

Designation of Administrative Approval:

Designation of Financial Approval:

No

Registrar

Finance Officer

Paying Authority Details

Payment Mode:

Offline

Designation:

Asst Engineer

Email ID:

ae.electrical.pyu@nic.in

GSTIN:

34AAAJP1298F1Z5

R. Venkstarsman Nagar Kalapet Pondicherry 605014, Pondicherry, PUDUCHERRY-605014, India

Address:

Seller Details

GeM Seller ID:

ABD8200001284445

Company Name:

FUTURE ELECTRONICS

Contact No.:

09529322244

Email ID: Address: futureelectronics20@gmail.com

HOUSE NO.133,POOJA COLONY,GALI NO. 2,NEAR JAIN COLLAGE, Sri Ganganegar, RAJASTHAN-335001. -

MSME verified:

No

GSTIN:

08ABQPG6278F2Z8

*GST / Tax invoice to be raised in the name of - Consignee

Product Details

#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Price (Inclusive of all Duties and Taxes In INR)
1	Product Name: Crompton Greaves 20 Watt/2000 turner 6500 K LED Tubelight Brand: Crompton Greaves Brand Type: Registered Brand Catalogue Status: Catalogue not verified by OEM Setting As: OEM verified Reseller	Light Emitting Diode LED Fixture- LED tube light	crompton 20 watt dazzie ray	HSN not specified by seller	100	pieces	19,305
Ti	otal Order Value (in INR)						19,305

Consignee Detail

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
1	Designation: Asst Engineer Email ID: ae.electrical.pyu@nic.in Contact: 0413-2654257-267 GSTIN: 34AAAJP1298F1Z5 Address: R. Venkataraman Nagar Kalapet Pondicherry 605014, PONDICHERRY, PUDUCHERRY-605014, India	Crampton Greaves 20 Watt/2000 lumen *6500 K LED Tubelight		100	16-Feb-2021	03-Mar-2021

Product Specification for Crompton Greaves 20 Watt/2000 lumen 6500 K LED Tubelight



Contract

Contract No: GEMC-511687796652576

Generated Date: 12-Apr-2021

Organisation Details

Type:

Central Autonomous

Ministry:

Ministry of Human Resource Development

Department: Organisation Name: Department of Higher Education

Office Zone:

Pondicherry University South

Buyer Details

Designation:

Asst Engineer

Contact No.:

0413-2654267-267

Email ID:

ae.electrical.pyu@nic.in

GSTIN: Address:

34AAAJP1298F1Z5

R. Venkstaraman Nagar Kalapet Pondicherry 605014, PONDICHERRY, PUDUCHERRY-606014, India

Financial Approval Detail

IFD Concurrence:

Designation of Administrative Approval:

Designation of Financial Approval:

No

Registrar

Designation:

Finance Officer Email ID:

Payment Mode:

Paying Authority Details

Offline

Asst Engineer

GSTIN:

at.electrical.pyu@nic.in

34AAAJP1298F1Z5

Address:

R. Venkataraman Nagar Kalapat Pondicherry 605014,

Pondicherry, PUDUCHERRY-605014, India

Seller Details

GeM Seller ID:

02BF190000761113

Company Name:

SURYA HOME APPLIACNE

Contact No.:

09529322244

Email ID:

amulcool007@gmail.com 77 OLD GRAIN MARKET, OLD DHAN MANDI, GANESH TALKIZ ROAD, NEAR LAKKAR MANDI,

Address:

Sri Ganganagar, RAJASTHAN-335001, -

MSME verified: GSTIN:

OBAHEPG5122E1ZU

*GST / Tax invoice to be raised in the name of - Consignee

Product Details

#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Price (Inclusive of all Duties and Taxes in INR)
1	Product Name: Crompton Greaves 20 Watt/2000 lumen 6500 K LED Tubelight Brand: Crompton Greaves Brand Type: Registered Brand Catalogue Status: Catalogue not verified by OEM Selling As: OEM verified Reseller	Light Emitting Diode LED Foture- LED tube light	LED BATTEN 20 WATT SLIM RAY PLUS (LDSLRP20-CDL) CROMPTON	HSN not specified by seller	100	pieces	17,444
To	fail Order Value (in INR)						17,444

Consignee Detail

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
	Designation: Asst Engineer Email ID: ae.electrical.pyu@nic.in Contact: 0413-2654267-267 GSTIN: 34AAAJP1298F1Z5 Address: R. Venkalaraman Nagar Kalapet Pendicherry 606014, PONDICHERRY, PUDUCHERRY-605014, India	Crompton Greaves 20 Watt/2000 lumen 6500 K LED Tubelight	•	100	12-Apr-2021	27-Apr-2021

Product Specification for Crompton Greaves 20 Watt/2000 lumen 6500 K LED Tubelight

Contract



Contract No: GEMC-511687739982202 Generated Date: 24-Sep-2021

Organisation Details

Type:

Central Autonomous

Ministry:

Ministry of Human Resource Development

Department: Organisation Name: Department of Higher Education Pondicherry University

South Office Zone:

Buyer Details

Designation:

Asst Engineer

Contact No.:

0413-2654267-267 ae.electrical.pyu@nic.in

Email ID: GSTIN:

34AAA/P1298F1Z5

R. Verkataraman Nagar Kalapet Pondicherry 605014, Address: PONDICHERRY, PUDUCHERRY-605014, India

Financial Approval Detail

IFD Concurrence:

Designation of Administrative Approval: Designation of Financial Approval:

Registrar Finance officer

Paying Authority Details

Payment Mode:

Offline

Designation:

Asst Engineer

Email ID: GSTIN:

ac.electrical.pyu@nic.in 34AAAIP1298F125

Address:

R. Venkstaraman Nagar Kalapet Pondicherry 605014, Pondicherry, PUDUCHERRY-605014, India

Seller Details

Gelf Seller ID:

02RF190000761113

Company Name:

SURYA HOME APPLIACNE

Contact No.:

09529322244

Email ID:

amulcool007@gmail.com

GSTIN:

77 OLD GRAIN MARKET, OLD DHAN MANDI, GANESH TALKIZ ROAD, NEAR LAKKAR MANDI. Sri Ganganagar, RAJASTHAN-335001, -

MSME verified:

Yes

MSME Registration number:

R(15D0018675 08AHEPG5122E12U

*GST / Tax invoice to be raised in the name of - Consignee

Product Details

#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Lead Time(Days)	Price (Inclusive of all Duties and Taxes in INR)
1	Product Name: Crempton Greaves 20 Wast/2000 lumin 6500 K LED Tubelight Brand: Crompton Greaves Brand Type: Registered Brand Catalogue Status: Cotalogue not verified by OEM Selling As: OEM verified Recoller	Light Emitting Diode LED Fixture- LED tube light	CROMPTON & 25W LED BATTEN (LDLL29COL)	9405	100	pieces	-	17,940
To	tal Order Value (in INR)							17,940

Consignee Detail

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
	Designation: Asst Engineer Email ID: se_electrical_pyu@nic.in Contact: 0413-2654267-267 05TIN: 34AAA/P1298F125 Address: R. Venkotarraman Negar Kalapet Pondicherry 605014, PONDICHERRY, PUDUCHERRY-605014, Incla	Crompton Greaves 20 Wattr2000 lumen 6500 K LED Tubelight	83	100	24-Sep-2021	69-Oct-2021

Product Specification for Crompton Greaves 20 Watt/2000 lumen 6500 K LED Tubelight

Specification	Sub-Spec		Value
	Led tube light power rating corresponding Min Luminiaus flux	17	20 Watt/2000 lumen
GENERIC	Colour Temperature (K)		6500

No. 3482/ED/SE-O&M-PR/Tech-III/F.64A/2020-21 GOVERNMENT OF PUDUCHERRY ELECTRICITY DEPARTMENT

To

The Registrar, Pondicherry University, R.V. Nagar, Chinna Kalapet, Puducherry-605 014. 46(0) 8 Barra

Puducherry, Dt: 17 .02.2021

PU/Regr/No. 7033 Dt/ 10 /oz /20 9/

Sir.

Sub: Electricity Department - SE-O&M-PR - Tech - III - Setting up of grid connected roof top / ground mounted Solar PV Power Plant of capacity 2400KWp at Pondicherry University Campus, R.V. Nagar, Chinna Kalapet, Puducherry with HT service connection No. 152/HT-Others - Letter of Approval for Installation - Issued - Regarding.

Ref: Your Solar Net-Metering application dated Dec-2020

With reference to your application cited above, it is informed that grid connectivity to the proposed roof top / ground mounted Solar PV power plant of capacity 2400KWp at Pondicherry University Campus, R.V. Nagar, Chinna Kalapet, Puducherry-605 014 with HT service connection No. 152/HT-Others (CMD 3000 KVA) is technically feasible and you may proceed with installation of the plant, subject to the following conditions:

- The erection of the plant should be completed within 180 days from the date of issue of this letter and intimated to the Assistant Engineer, Kalapet Sub-Division, with a copy to this office for inspection.
- (2) The Solar PV Power Plant shall comply with relevant standards specified by CEA/JERC/MNRE. The consumer shall abide by all the Codes and Regulations issued by the Hon'ble JERC to the extent applicable and in force from time to time.
- (3) The components and parts used in the power plant shall conform to the BIS or IEC or IEEE standards.
- (4) It shall be ensured that the relevant provisions of the CEA (Measures relating to Safety and Electricity supply), Regulations, 2010 and amendments thereof are adhered to.
- (5) The interconnection point of the Roof Top / Ground Mounted solar system with the consumer installations and the distribution system of the Department shall conform to the specifications, standards and provisions as provided in the CEA (Technical standards for connectivity of the Distributed Generation Resources) Regulation 2013.
- (6) An Energy meter Static type with automatic remote meter reading facility as per CEA (Installation and Operation of Meters) (Amendment) Regulations, 2019 for recording solar energy generated shall be provided at the point at which the solar energy is delivered to the main panels, at the generation side.
- (7) A manual four pole disconnect switch besides automatic disconnection to grid shall be provided to isolate the grid connection by the department personnel to carry out any maintenance. This switch should be locked by the department personnel.
- (8) A Contractor's Work Completion report along with Single line diagram of the installed Solar PV power plant, Safety Certificate for the installations shall be obtained from the Electrical Inspectorate and the test values of the installations shall be furnished on completion of installation in all respects.
- (9) Regarding the specification of HT Trivector Bidirectional meter and the unidirectional solar energy meter, you may contact the Assistant Engineer- HTM and the Assistant Engineer- Kalapet Sub-Division, for requisite details.

Yours faithfully,

Superintending Engineer-O&M

Puducherry Region

PONDICHERRY UNIVERSITY
ELECTRICAL WING

V. MOUROUGAVELOU
ASSISTANT ENGINEER (E)
Ref. PU/ELW/21-22

R.V.NAGAR, KALAPET, PUDUCHERRY - 14 Date: 06/09/2021

To
The Executive Engineer-IV,
Department of Electricity,
Government of Pondicherry,
Pondicherry 605 014.

Sir.

Sub: Net metering agreement submitted -Reg. -o0o-

This office put on records the cooperation extended by the Electricity Department towards energizing the net meter and its allied works in the University Campus. Since the net meter has been energized on 07/08/2021, two formally signed copies of the net metering agreement is enclosed herewith for signature of Electricity Department Authorized signatory and return a copy for our records & references.

Thanking You,

Yours faithfully,

(V. MOUROUGAVELOU)

Encl: as above.





Government of Puducherry

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Certificate Issued Date

Account Reference

Unique Doc. Reference

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Description of Document

Property Description

Consideration Price (Rs.)

First Party

Second Party

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20-Nov-2020 05:33 PM

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snkanth

Article 5 Agreement or Memorandum of Agreement

POWER PURCHASE AGREEMENT (PPA)

0

(Zero)

: AMP ENERGY DISTRIBUTED GENERATION PVT LTD

: PONDICHERRY UNIVERSITY

- AMP ENERGY DISTRIBUTED GENERATION PVT LTD

100

(One Hundred only)



SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT

Please write or type below this line.....

AMENDMENT AGREEMENT

This Amendment Agreement No 1. (Amendment Agreement) is executed on 23 day of November 020 at Puducherry

BETWEEN

Pondicherry University having its premises at R. Venkataraman Nagar, Kalapet, Puducherry - 605014, (hereinafter referred to as "Purchaser")

AND

Amp Energy Distributed Generation Private Limited (CIN No. U40106DL2019PTC353750), a company incorporated under the Companies Act, 2013 having its registered office at 309, 3rd Floor, Rectangle One, Behind Sheraton Hotel, Saket, New Delhi - 110017 (India) (hereinafter referred to as "Power Producer") which expression shall, unless repugnant to the meaning or context hereof, be deemed to include its successors and assigns).

The Purchaser and Power Producer are each individually referred to as a "Party" and collectives "Parties" (B. Chi Nau L.)

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REGISTRARIO

PONDICHERRY UNIVERSITY PUDUCHERRY - 605 014

3.3. The following table to replace the existing table under Schedule I of the PPA.:

Capacity and Area requirement	Original PPA	Amended PPA
Capacity	382 kWp (+/-10%)	499 kWp (+/-10%)
Module area	4,600 Sq. mtr. (PV system)	6,000 Sq. mtr. (PV system)
No of buildings	5	.5
No of roofs	5	5
Capacity distribution	Science block 1 (Ecology, Env sci dept etc) Dept of Physics Marie Curie Research Scholars hostel Narmada hostel Sri Aurobindo Hostel (boys)	Science Block 1 (Ecology, Environment Science dept) Dept of Physics Dept of Earth Science Science Block 2 (Computer Science) Ground Mounted (part 1)

B. clineurs

REGISTRARIJE)
PONDICHERRY UNIVERSITY
PUDUCHERRY - 605 014.





मन्यमेर जयते

INDIA NON JUDICIAL Government of Puducherry

e-Stamp

Certificate No.

Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Property Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(Rs.)

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20-Nov-2020 05:22 PM

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SUBIN-PYPY-SELF70911191405150S

srikanth

Article 5 Agreement or Memorandum of Agreement

POWER PURCHASE AGREEMENT (PPA)

0

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

PONDICHERRY UNIVERSITY

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

100

(One Hundred only)



SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT

..Please write or type below this line

AMENDMENT AGREEMENT

This Amendment Agreement No 2, (Amendment Agreement) is executed on 25rd day of November 2020 at Puducherry

BETWEEN

Pondicherry University having its premises at R. Venkataraman Nagar, Kalapet, Puducherry - 605014, (hereinafter referred to as "Purchaser")

AND

Amp Energy Distributed Generation Private Limited (CIN No. U40106DL2019PTC353750), a company incorporated under the Companies Act, 2013 having its registered office at 309, 3rd Floor, Rectangle One, Behind Sheraton Hotel, Saket, New Delhi - 110017 (India) (hereinafter referred to as "Power Producer") which expression shall, unless repugnant to the meaning or context hereof, be deemed to include its successors and assigns).

The Purchaser and Power Producer are each individually referred to as a "Party" and collectively serve

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PUDUCHERRY UNIVERSITY --PUDUCHERRY - 605 014

3.3. The following table to replace the existing table under Schedule I of the PPA.:

Capacity and Area requirement	Original PPA	Amended PPA
Capacity	234 kWp (+/-10%)	460 kWp (+/-10%)
Module area	2.808 Sq. mtr. (PV system)	5,520 Sq. mtr. (PV system)
No of buildings	3	5
No of roofs	3	5
Capacity distribution	Lecture Hall complex II Ananda Rangapillai Library School of Management	Dept of Biotechnology Lecture Hall Complex II School of Management Ananda Rangapillai Library Ground mounted (Part 2)

B. chilueus_

PONDICHERRY UNIVERSITY PUDUCHERRY - 605 014.





Government of Puducherry

e-Stamp



Certificate No.

Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Property Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(Rs.)

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20-Nov-2020 05:10 PM

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Srikanth

Article 5 Agreement or Memorandum of Agreement

POWER PURCHASE AGREEMENT (PPA)

(Zero)

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

PONDICHERRY UNIVERSITY

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

: 100

(One Hundred only)



SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT

-- Please write or type below this line-----

AMENDMENT AGREEMENT

This Amendment Agreement No 3. (Amendment Agreement) is executed on 23rd day of November 2020 at Puducherry

BETWEEN

Pondicherry University having its premises at R. Venkataraman Nagar, Kalapet, Puducherry - 605014, (hereinafter referred to as "Purchaser")

AND

Amp Energy Distributed Generation Private Limited (CIN No. U40106DL2019PTC353750), a company incorporated under the Companies Act, 2013 having its registered office at 309, 3rd Floor, Rectangle One, Behind Sheraton Hotel, Saket, New Delhi - 110017 (India) (hereinafter referred to as "Power Producer") which expression shall, unless repugnant to the meaning or context hereof, be deemed to include its successors and assigns).

The Purchaser and Power Producer are each individually referred to as a "Party" and collectorely as the "Parties" P. CO. No. 1997

PONDICHERRY UNIVERSITY
PUDUCHERRY - 605 014

1

3.3. 4. The following table to replace the existing table under Schedule I of the PPA.:

Original PPA	Amended PPA 500 kWp (+/-10%)	
363 kWp (+/-10%)		
4,356 Sq. mtr. (PV system) 6,000 Sq. mtr. (PV sy		
3	4	
3	4	
Dept of Electronic media School of Social Sciences School of Humanities	School of Social Sciences School of Humanities Sri Aurobindo Hostel (boys Ground mounted (Part 3)	
	363 kWp (+/-10%) 4,356 Sq. mtr. (PV system) 3 Dept of Electronic media School of Social Sciences	

B. Chihuun

PONDICHERRY UNIVERSITY PUDUCHERRY - 505 014.



INDIA NON JUDICIAL Government of Puducherry

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Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Property Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(Rs.)

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Srikanth

Article 5 Agreement or Memorandum of Agreement

POWER PURCHASE AGREEMENT (PPA)

(Zero)

AMP ENERGY DISTRIBUTED GENERATION PVT LTD.

PONDICHERRY UNIVERSITY

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

(One Hundred only)



SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT

Please write or type below this line

AMENDMENT AGREEMENT

This Amendment Agreement No 4. (Amendment Agreement) is executed on 23rd day of No verness 2020 at BETWEEN Puducherry

Pondicherry University having its premises at R. Venkataraman Nagar, Kalapet, Puducherry - 605014, (hereinafter referred to as "Purchaser")

AND

Amp Energy Distributed Generation Private Limited (CIN No. U40106DL2019PTC353750), a company incorporated under the Companies Act, 2013 having its registered office at 309, 3rd Floor, Rectangle One, Behind Sheraton Hotel, Saket, New Delhi - 110017 (India) (hereinafter referred to as "Power Producer") which expression shall, unless repugnant to the meaning or context hereof, be deemed to include its successors. and assigns).

The Purchaser and Power Producer are each individually referred to as a "Party" and collective "Parties"

REGISTRARPIO PONDICHERRY UNIVERSIT

PUDUCHERRY - 605 014

3.3. The following table to replace the existing table under Schedule I of the PPA.:

Capacity and Area requirement Original PPA Capacity 401 kWp (+/-10%)		Amended PPA 480 kWp (+/-10%)	
No of buildings	1	5	
No of roofs	1	.5	
Capacity distribution	Ground Mounted	Mega Mess Dept of Electronic media Marie Curie Research Scholars Hostel Narmada Hostel (girls) Ground Mounted (Part 4)	

B. Chirmun

REGISTRARII/6|
PONDICHERRY UNIVERSITY
PUDUCHERRY - 605 014.



INDIA NON JUDICIAL Government of Puducherry

e-Stamp

Certificate No.

Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Property Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(Rs.)

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SUBIN-PYPY-SELF70989986804269S

Srikanth

Article 5 Agreement or Memorandum of Agreement

POWER PURCHASE AGREEMENT (PPA)

(Zero)

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

PONDICHERRY UNIVERSITY

AMP ENERGY DISTRIBUTED GENERATION PVT LTD

(One Hundred only)



SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT

..Please write or type below this line

AMENDMENT AGREEMENT

This Amendment Agreement No 5. (Amendment Agreement) is executed on 23rd day of November 2020 at BETWEEN Puducherry

Pondicherry University having its premises at R. Venkataraman Nagar, Kalapet, Puducherry - 605014, (hereinafter referred to as "Purchaser")

Amp Energy Distributed Generation Private Limited (CIN No. U40106DL2019PTC353750), a company incorporated under the Companies Act, 2013 having its registered office at 309, 3rd Floor, Rectangle One, Behind Sheraton Hotel, Saket, New Delhi - 110017 (India) (hereinafter referred to as "Power Producer") which expression shall, unless repugnant to the meaning or context hereof, be deemed to include its successors and assigns).

The Purchaser and Power Producer are each individually referred to as a "Party" and collection "Parties"

PONDICHERRY UNIVERS

PUDUCHERRY 1605'074'

3.3. The following table to replace the existing table under Schedule I of the PPA.:

Capacity and Area requirement	Original PPA	Amended PPA 460 kWp (+/-10%)	
Capacity	350 kWp (+/-10%)		
Module area	4,200 Sq. mtr. (PV system)	5,520 Sq. mtr. (PV system)	
No of buildings	1	3	
No of roofs	1	Elevated structure (car shed) Elevated structure (car shed) Ground Mounted (Part 5)	
Capacity distribution	Ground Mounted		

B. Chi Turus

REGISTRAR(/4)
PONDICHERRY UNIVERSITY
PUDUCHERRY - 605 014.

On and Off-Grid Solar PV Plants, Solar Street Light, Solar thermal, biogas plants in Pondicherry University 2020-21

1. Solar photovoltaic installed in Pondicherry University UPDATED (Silver jubilee Campus of Pondicherry University, Green Energy Department, Centre for Bioinformatics, and Library Annexure)

S.No.	Location	Total Capacity	Date of Commissioning and Completed
	Silver jubilee Campus and selected buildings in the main campus	<u>2.4 MWp</u>	Dec 2020 in April 2021(Details in SDG 7.1a/b files)
1	UMISARC Building	8.5 KWp	Jan 2014 and active
2	Library Annexe	10 KWp	Jan 2014 and active
3	Green Energy Building Centre forBioinformatics	10 KWp	April 2014 and active
4		12KWp	April 2014 and active
5	Green Energy Building	5 KWp	July 2014 and active

2. Solar lighting systems in the campus pathway (Nos.162 lights) ~ 2.86KW

9	S.No	Location	Number of lightings	Capacity in KW	Year of Commissioning
1	1	Approach Roads in	30	0.33	2008 and active
1		the Campus	30	0.33	2010 and active
2	2	Silver Jubilee campus	72	1.87	
3	3	Bio-Informatic pathway	16	0.18	2014 and active
4	1	Green Building pathway	14	0.15	

Proof- images



Pondicherry University has installed a 2.4 MW rooftop solar power plant -one of the largest affordable and clean energy generation in an educational institution of India. Vice President M. Venkaiah Naidu has inaugurated the same at Pondicherry University on 13th September 2021



Installed solar photovoltaic in UMISARC building of Pondicherry University



Installed solar photovoltaic in Green Energy building of Pondicherry University



Installed solar photovoltaic street light in SilverJubilee Campus of Pondicherry University



Installed solar water heaters in one of the Hostel building of Pondicherry University.

पांडिच्चेरीविश्वविद्यालय/PONDICHERRY UNIVERSITY

विद्युत स्कंध/ELECTRICAL WING

वी.मुरुववेलु/V. MOUROUGAVELOU सहायक अभियंता/Assistant Engineer आर.ची.नगर/R.V.NAGAR,कालापेट/KALAPET पुदुश्चेरी/PUDUCHERRY-605 014

Pondicherry University adheres to the Energy Efficiency Standards and taken several steps as listed below

- Pondicherry University has fitted LED motion-sensor lights in the all new existing buildings from June 2020 onwards.
- About 100 Nos of 250 W streetlights have been replaced with 90W energy-efficient lights in 2021
- Replaced with 8W/20W 4 feet LED energy efficient fitting -total numbers 460 and LED 7/9W pin type total numbers 131 for the year 2020-21
- Energy metering for each building of a total of 131 was fixed in 2021 for the energy audit, energy conservation, and efficiency to reduce energy use.
- Already 1630 tonne capacity energy efficient VRF Air Conditioning is working in 9 University campus buildings.
- It is proposed to install energy-efficient ACs, Fans, LEDs, and water pumps in the new building, -which is under construction.
- Tine-to-time awareness programs on energy conservation and efficiency have been provided on the campus through workshops, seminars, posters, and stickers.

Yours faithfully

(V. Mourougavelou)

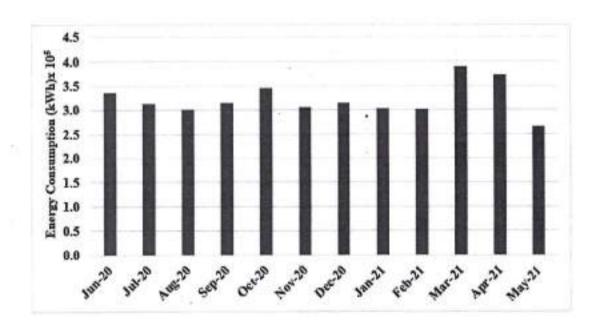
ASSISTANT ENGINEER (ELECT.)
PONDICHERRY UNIVERSITY
R. Venkataraman Nagar, Kalapet
Puducherry - 605 014.

पांडिज्ञेरीविश्वविद्यालय/PONDICHERRY UNIVERSITY

विद्यत स्कंध/ELECTRICAL WING

वी.मुरुगवेलु/V. MOUROUGAVELOU सहायक अभिवंता/Assistant Engineer आर.वी.नगर/R.V.NAGAR,कालापेट/KALAPET पुदुञ्जेरी/PUDUCHERRY-605 014

Energy consumed at Pondicherry University Main Campus for the academic year June 2020-May 2021



Total Energy Consumption in kwh =38,65,980.00 (13918 Gigajoules)

Remarks: The energy consumption for the academic year June 2020-May 2021 has reduced to half compared to pre-COVID data.

Yours faithfully

(V. Mourougavelou)

ASSISTANT ENGINEER (ELECT.)
PONDICHERRY UNIVERSITY
R. Venkataraman Nagar, Kalapet
Puducherry - 605 014.

3.6.2 Link to geo –tagged photos

https://drive.google.com/file/d/1JlluCTRqUf5v36BkBWRwR0s8j5rDNzcz/view?usp=sharing

3.6.2 Link to the report of the activities

https://drive.google.com/file/d/1oZ3lags6ZCF_D-Dgu-c1nZ4lQjeKdtkY/view?usp=sharing