

FORM 1
[See Regulation 24(3)]
General Heading for petitions

**BEFORE THE KERALA STATE ELECTRICITY
REGULATORY COMMISSION**

Petition No:

(To be filled by the Office, if number has not earlier been assigned)

IN THE MATTER OF:

Request for the permission for the Grid Connectivity of 100kWp Solar Panel in the premises of Rajiv Gandhi Co-Operative Hospital and Research Centre, Kallekkad, Palakkad – 678 004, for which feasibility was obtained on 24.05.2020 and registration on 17.06.2020

**Name (S) and full address (ES) of
Petitioner(S)/ Applicant (S)**

Petition is filed by : Mr. Manikandan K
Managing Director
Rajiv Gandhi Co-Operative Hospital and Research
Centre
Kallekkad
Palakkad
Mob: 9447288687
E-mail: rajivgandhicooperativehospital@gmail.com

Co-Complainant : Lajo Davis
Manager Design & Technical
Solgen Energy Pvt Ltd
22/314-B, Kuttanallur P.O
Thrissur, Kerala Pin – 680 014
Mob: 8111830000
Email: lajo@solgenindia.com

Name (S) and full address (ES) of respondent (S)

- : 1. Kerala State Electricity Board,
Represented by the Secretary
VydyuthiBhavanam, Pattom,
Thiruvananthapuram.
Pin No. 695004.
2. Chairman and Managing Director
Kerala State Electricity Board,
VydyuthiBhavanam, Pattom,
Thiruvananthapuram.
Pin No. 695004.
3. Chief Engineer, REES
Kerala State Electricity Board,
VydyuthiBhavanam, Pattom,
Thiruvananthapuram.
Pin No. 695004
4. Deputy Chief Engineer,
Electrical Circle, Palakkad
Office of the Deputy Chief Engineer,
KSEBL, Palakkad
T B Road, Palakkad – 678 014

FORM 2
[See Regulation 24(5)]

BEFORE THE KERALA STATE ELECTRICITY REGULATORY COMMISSION

Petition No:

(To be filled by the Office, if number has not earlier been assigned)

IN THE MATTER OF:

Request for the permission for the Grid Connectivity of 100kWp Solar Panel in the premises of Rajiv Gandhi Co-Operative Hospital and Research Centre, Kallekkad, Palakkad - 678 004, for which feasibility was obtained on 24.05.2020 and registration on 17.06.2020

**Name (S) and full address (ES) of
Petitioner(S)/ Applicant (S)**

Petition is filed by	:	Mr. Manikandan K Managing Director Rajiv Gandhi Co-Operative Hospital and Research Centre Kallekkad Palakkad Mob: 9447288687 E-mail: rajivgandhicooperativehospital@gmail.com
Co-Complainant	:	Lajo Davis Manager Design & Technical Solgen Energy Pvt Ltd 22/314-B, Kuttanallur P.O Thrissur, Kerala Pin - 680 014 Mob: 8111830000 Email: lajo@solgenindia.com

Name (S) and full address (ES) of respondent (S)

- : 1. Kerala State Electricity Board,
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Kerala State Electricity Board,
VydyuthiBhavanam, Pattom,
Thiruvananthapuram.
Pin No. 695004
4. Deputy Chief Engineer,
Electrical Circle, Palakkad
Office of the Deputy Chief Engineer,
KSEBL, Palakkad
T B Road, Palakkad – 678 014

AFFIDAVIT VERIFYING PETITION:

I, Manikandan K, Son of C.P Govindan Nambiar aged 62 yrs residing at Lakshmi Nivas, Puthanthodi, Edathara P.O, Parli – ii, Palakkad, do solemnly affirm and state as follows:

1. I am a petitioner/applicant/ respondent in the above matter
2. The statement made in the paragraphs of the petition application replay herein now shown to me and marked with the letter “A” are true to my knowledge and the statement made in paragraphs “AC” are based on information received and I believe them to be true.

Solemnly affirmed at on this day of that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Petitioner/Applicant/Respondent

1. Mr. Manikandan K
Managing Director
Rajiv Gandhi Co-Operative Hospital and Research
Centre
Kallekkad, Palakkad
Mob: 9447288687
E-mail:rajivgandhicooperativehospital@gmail.com
2. Lajo Davis
Manager Design & Technical
Solgen Energy Pvt Ltd
22/314-B, Kuttanallur P.O
Thrissur, Kerala Pin – 680 014
Mob: 8111830000
Email: lajo@solgenindia.com

Identified before me Notary

INTRODUCTION

- A.** Ours is a Registered Society from 01.06.1984. Our Society consist of 1104 members. We are having facility for Cooperative Dialysis, Cooperative Heart Centre, Cooperative Blood Bank, Ayurveda Department, Pediatric Care, Cooperative IVF Centre, Cooperative Physiotherapy Clinic, Cooperative Scan Centre, Silver Jubilee Hall, Mahatma Gandhi Educational Society, P. Balan Co -Operative Hospital, Balan Pain and Palliative Care Society.
- B.** Our hospital is giving 24x7 service. Three to Five lakh patients are utilising our service in a year. We are also providing treatment fees reduction around Eight to Ten lakh every year.
- C.** We are having an HT Connection in HT II (B) General tariff with 321.554kW Connected Load and 165kVA Contract Demand. Feeder - Edathara (Parali 110kV Substation). The working hours of our hospital is in 24x7 pattern, because the same is placed under emergency health sector. The average monthly consumption is going beyond 50,000 units. To encourage solar power supply and also to bring down the escalating power tariffs necessary applications were given before the authorities who subsequently conducted physical verification and as a result caused to issue feasibility report for 400kWp solar. That is consumption can be met only by installing Solar of capacity 420kWp considering an average generation of 4 units per kW per day.
- D.** Our average per day consumption is 1670 units and the total solar requirement calculated is 420kWp. During 2018 our Management took a decision to go for Solar Plant. We have opted for Grid Connected Solar, and obtained the feasibility for 300kWp Solar on 04.06.2018. The Registration with KSEBL was on 26.07.2018 by paying Rs.3lakhs. Further to the management decision, we have decided to enhance the plant up to 400kWp assuming the future requirements will be high and applied for 100 kw add on capacity accordingly. On approval for further 100kWp, we have awarded the work to a professional experienced EPC contractors named Solgen Energy Private Limited. They have started 400kWp Solar project by installing 6 no's 60kW Inverters and 2 no s' of 20kW inverters (Total - 400kWp) and 400kWp Solar Panels.

- E.** In order to have maximum capacity utilisation and to mitigate the present consumption of average 50,000 units per month we decided to go for further 100kWp Solar along with the present 300kWp Solar. Accordingly, we have revised the Scheme and submitted the same with Electrical Inspectorate and KSEBL. Application for feasibility of further 100kW (with 1 no. 60kW & 2no's 20kW Inverter) was submitted on 24.05.2020 and we have paid the balance registration fees Rs. One lakh on 17.06.2020.
- F.** The Gazette Publication of Renewable Energy and Net Metering Regulations, 2020 is dated 05.06.2020. Since the feasibility of 100kWp was received complying with Grid Interactive Distributed Solar Energy System Regulation 2014 and taking in to consideration our consumption pattern we registered the additional 100kWp by paying Rs. One lakh on 17.06.2020. The KSEBL also accepted the same.
- G.** After obtaining the additional feasibility and registration by paying Rs. One lakh, we completed the work of 400kWp Solar in all respect and arranged the Electrical Inspectorate inspection and obtained sanction for energisation for the 400kWp Solar Project on 30.01.2021. After obtaining the sanction, we submitted the completion report with KSEBL for testing and execution of agreement. They visited the site and directed us to disconnect 100kWp Solar from the Grid. Now the 100kWp Solar is idle.
- H.** The investment at site for establishment of 400kWp Solar is huge. We have done entire work after complying with all statutory requirements and Regulations and also after getting feasibility and the registration of the same with KSEBL.

Co-Complainant : Solgen Energy Pvt. Ltd

- I.** Ours is a Joint Innovation of **Hykon India Ltd. and Elite Group of Companies**, pioneering their presence in the field of power electronics with varied interests in medical transcription, Information Technology, Renewable Energy Developers, Food Products, IT parks and so forth.
- J.** Our parent company is in 8th position in India in the field of Power electronics, with more than one million satisfied customers in India.
- K.** Solgen Energy, is well known for its Power Electronics products and Solar Products in South India. Solgen products have a well- earned reputation for

quality and reliability. Solgen's R&D Wing has the most dedicated and innovative team of engineers who constantly come up with newer and better energy saving products. Solgen make its products and services available at the most affordable and competitive price.

- L. As we all know, the greatest power source for this world is up there in the sky - the Sun! Solgen is making a significant contribution to the environment and economy by harnessing this clean renewable energy and making it conveniently usable in homes and manufacturing / business facilities. Solgen is a technology driven and forward-thinking group, introducing many a path breaking innovative products without compromising on quality, by using new concepts, thus contributing greatly to improve the energy stabilization practices in India and creating landmarks in this field.

1. **As a mark of its excellence in the field of Solar Power projects, Solgen is awarded the prestigious Recipient of "Kerala State Akshaya Urja Award - 2018 (Renewable Energy Power Industry)" - Constituted by Government of Kerala.**

2. **"SOFT DISK's Solar Survey - 2019 - Awarded 5th position among Grid Sharing Solar PV Power Solution Providers.**

- M. As per Renewable Energy and Net Metering Regulations, 2020, Reg. 66. *Power to amend. - The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of these Regulations.* Hence kindly consider our difficulties and may give permission for 100kW Grid Connected Solar in addition to the existing 300kW Solar.

N. Financial Over View - Rajiv Gandhi Co-Operative Hospital and Research Centre

1. We would like to summarize our financial overview of this project as follows.
2. The total value of the project is Rs1.96Crores.
3. We got work order on 17.03.2020 for 400kWp solar power plant with 5 lakhs advance and successfully completed solar power plant installation on 24.12.2020.
4. Out of total 400 kWp, 300 kWp system was connected to KSEB grid on 26.03.2021, but KSEB have not connected the 100kWp solar for which they

have already given feasibility and registration. Now it is already over 9 months after completion of the project.

5. We had finalized the price with the client just before pandemic, and work order along with advance given on 26th March, 2019. Since 28th lock down started unexpectedly. During the period, procurement and labour cost were increased and faced scarcity of materials too. For the purpose we have availed a working capital loan with an interest rate @ 11.5% per annum, which was only in an intension to keep our commitment in order. Due to the mentioned problem, client refused to settle our outstanding of Rs.31 lakhs out of the total Rs.196 lakhs. We have already lost finance cost of Rs.2.3 lakhs against due amount and still the situation is uncertain.

STATEMENT OF FACTS

- O. The Electricity Act 2003, Sec.86, 'discharges the functions of State Commission', complying with the provisions of the Act 2003, as per Sec.86(e), "*promote co-generation and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licensee*".
- P. As per Renewable Energy and Net Metering Regulations, 2020, Sub Reg. 13. General Condition (2) The Grid Interactive Renewable Energy Systems, installed by a prosumer at his premise under this chapter shall be:
 - (a) of not less than one kW and not exceeding 1000 kW capacity on AC side of the inverter connected to the net meter of the distribution system, limited to the sanctioned connected load or contract demand as applicable to the prosumer, with the distribution licensee.

(Para 5): Provided also that, the Renewable Energy Systems installed by the prosumers under net metering as on the date of notification of these Regulations shall be allowed to continue irrespective of their contract demand or connected load.
- Q. The KSEBL have given us the feasibility on 24.05.2020, that is before the Gazette Publication of the Renewable Energy and Net Metering Regulations, 2020 dated 05.06.2020, but the registration was done by accepting our payment of Rs. One lakh on 17.06.2020, ie, 12 days after publication of Renewable Energy and Net Metering Regulations, 2020.
- R. For the work completion we have had heavy investment.

- S. Expected Solar Generation per month from the 400kWp is 48,000 units (400kW x 4-unit x 30 days), our requirement is 50,000 units.
- T. By enhancing the present 300kWp to 400kWp no loss is incurring to KSEBL and on the other hand the present ongoing waste of solar energy could be saved and utilised.
- U. The KSEBL could have made or taken a stand at the time of submission of request for additional 100kWp.
- V. The KSEBL had accepted the additional prescribed amount and further its denial is unjust and improper in the eye of law.
- W. The Electricity Act 2003, Sec.86 is intended the promotion of Renewable Energy Projects and Hon. Commission is empowered in all respect to facilitate the promotion of RE Projects
- X. The 100kWp in addition will not affect technically to the Edata 11kV feeder from 110kV Substation.

GROUND

- Y. The Electricity Act 2003, Sec.86 is intended the promotion of Renewable Energy Projects and Hon. Commission is empowered in all respect to facilitate the promotion of RE Projects.
- Z. The KSEBL executed 300kWp Solar Net Metering Agreement on 22.02.2021. Now the generation is at an average of 36000 units per month. While our requirement is 50,000 units per month. We have a gap of 14,000 unit. If we add further 100kW Solar which will produce 12000 units at an average per month. Even then there will be a gap of 2,000 units per month.
- AA. Renewable Energy and Net Metering Regulations, 2020, Reg. 13. General Condition (2)(a) ***“Para 3: Provided also that, prosumers including those prosumers mentioned above are also permitted to install Renewable Energy System in excess of their connected load or contract demand as applicable. However, the benefit of net metering shall not be allowed to such prosumers and such prosumers shall be treated at par with the prosumers having RE capacity more than 1 MW, as detailed in Chapter IV of these Regulations”.***

If we are moving into this category, we have to invest further towards augmentation and metering. We already have heavy investment and there is no return on investment. KSEBL is not coming out with any suggestions to energise 100kW Solar.

- AB. Renewable Energy and Net Metering Regulations, 2020, Reg. 13. General Condition (2)(a) ***Para 4: Provided also that, the Renewable Energy Systems installed by the prosumers under net metering as on the date of notification of these Regulations shall be allowed to continue irrespective of their contract demand or connected load.***

Since we have registered the plant with KSEBL by paying Rs. One Lakh and obtained the sanction for energisation before the Gazette Publication of the new Regulation kindly approve our 400kWp Net Meter Solar Project.

- AC. As per Renewable Energy and Net Metering Regulations, 2020, Reg. 66. *Power to amend. The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of these Regulations.* Hence kindly consider our difficulties and may give permission for 100kW Grid Connected Solar in addition to the existing 300kW Solar.

RELIEF SOUGHT

1. Direct KSEBL to give permission for the addition 100kWp Solar to the Grid along with the existing 300kWp Solar.
2. Direct KSEBL to execute a supplementary agreement for the addition of 100kWp Solar.
3. Since all the facilities as per KSEBL requirements are provided, the Hon. commission may look in to the matter and kindly approve our 400kWp Net Meter Solar project.
4. **Interim Relief**
Direct the respondents to give temporary sanction thereby enabling the complainant to have full-fledged production to the tune of 400kwph till the adjudication of this complaint thereby avoiding unnecessary wastage of energy and financial damage.

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Annexure

1. Registration Certificate
2. Feasibility of 300kWp Solar
3. Registration of 300kWp Solar
4. Feasibility of 100kWp Solar
5. Registration of 100kWp Solar
6. Sanction order for 400kWp Solar from Electrical Inspectorate
7. Agreement copies of 300kWp Solar with KSEBL