



संत लौंगोवाल अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन सम विश्वविद्यालय)
लौंगोवाल, जिला संगरूर, पंजाब - 148106
Sant Longowal Institute of Engineering & Technology
(Deemed-to-be-University under Ministry of Human Resource Development, Government of India)
Longowal, Distt. Sangur, Punjab-148106

संदर्भ सं/ Ref. No. SLIET/ 757 to 766

THROUGH: E-MAIL

दिनांक / Date: 27/07/2020

01. Director, SLIET, Longowal - Chairman, B&WC
02. Joint Secretary & Financial Adviser, Govt. of India, MHRD, Department of Higher Education, I.F. Division, Shastri Bhawan, New Delhi-Member
03. Deputy Secretary, Govt. of India, Ministry of Human Resource, Department of Higher Education, Section -VII, Shastri Bhawan, New Delhi - Member
04. Director, Technical Education & industrial Training, Punjab, Plot No. 1, Sector 36-A, Chandigarh-Member
05. Superintending Engineer, Jalandhar Central Circle, CPWD, Surya Enclave, Kendriya Sadan, 2nd Floor, Jalandhar-Member
06. Superintending Engineer (Electrical), Patiala Division, PWD, Patiala-Member
07. Dean (P&D), SLIET, Longowal - Member
08. Estate Officer, SLIET, Longowal - Member
09. Dr. Avinash Thakur, F.I. (Civil) - Special Invitee
10. Dr. Raj Kumar Garg, F.I. (Electrical) - Special Invitee

**SUBJECT: INSTALLATION OF 01 MW GRID CONNECTED SOLAR ROOFTOPS
IN SLIET LONGOWAL, SANGRUR - AGENDA BY CIRCULATION.**

Dear Sir/Madam,

Enclosed please find an Agenda for Installation of 1 MW Grid Connected Solar Rooftops in SLIET, Longowal.

The Solar Energy Corporation of India (SECI) empanelled vendor M/s Sukhbir Agro Energy Limited (SAEL), New Delhi one of the successful bidder of SECI having capacity of 3 MW for Zone-3 (Punjab State comes under Zone-3), is bound to book their allocated capacity to solarise Govt. Buildings on first come first services. The tentative execution time for the work is 04 to 05 months after signing the MoU. The MoU can be signed only after the proposal is approved by the BoM after recommendations of B&WC.

In view of this, the agenda is proposed by circulation. All the B&WC members are, therefore, requested to consider the proposal and offer their comments/consent preferably by 06/08/2020.

With kind regards,

Yours sincerely,

(Ravinder Kumar)
Registrar & Member Secretary
E-Mail: registrar@sliet.ac.in

"Proud to be Part of Team SLIET"

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**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY
LONGOWAL, (DEEMED-TO-BE UNIVERSITY)**

AGENDA ITEM NO. 13.01

INSTALLATION OF 01 MW GRID CONNECTED SOLAR ROOFTOPS IN SLIET LONGOWAL, SANGRUR

The Ministry of New & Renewable Energy (MNRE) vide letter No. 30/11/2014-15/NSM dated 28.05.2015 (01-02) conveyed the approval in principle an allocation of Rs. 1 Cr./1MW to Sant Longowal Institute of Engineering & Technology (SLIET) Longowal in view of the policy matter adopted by Govt. of India for all GOI organizations/CPSUs for installation of 1 MW Grid Connected Solar Rooftops. The approximate cost was Rs. 700 Lacs. The work was required be carried out either through Solar Corporation of India (SECI), PEDA or any other Govt. organization emplaned with MNRE.

Accordingly, the institute initiated the action. Brief history of the activities is given:

Table-1 : Earlier BWC resolutions for implementation of this scheme are as follows

Sr. No.	Date	Letter/ Reference No.	Description/ Detail	Chain Page No.	Remarks
1.	23.05.2018	Item No. 9.18 of 9 th BWC	The proposal to set up 1MW rooftop solar power plant was put up in 9 th BWC held on dated 23.05.2018 vide agenda item no. 9.18	A 03-07	BWC resolved to request Solar Energy Corporation of India/ MNRE for latest policy of Govt. of India
2.	(a) 30.08.2019	Item No. 11.2 (9.18) of 11 th BWC	In the ATR of 11 th BWC held on 30.08.2019 & ATR of 12 th BWC held on 08.11.2019, it was reported that work will be taken up through the successful bidder of SECI.	A 08-09	Communication was made with SECI.
	(b) 08.11.2019	12 th BWC held on 08.11.2019 ATR of item No. 9.18			

Table -2 : Brief history of the activities for implementation of this scheme is as under:-

Sr. No.	Date	Letter/ Reference No.	Description/ Detail	Chain Page No.	Remarks
1.	16.09.2015	SLIET/EW/2015/979	A Committee from SLIET visited IIT Delhi to discuss on the modalities for installation of 1 MW Grid connected solar PV power project	A 10	Tour report of the committee enclosed at A-11
2.	27.04.2016 & 30.08.2017	SLIET/EW/EST/17/687-690	Details of estimation about solar rooftop installation sent to Department of Higher Education, MHRD, New Delhi.	A12-15	

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3.	08.07.2016	SLIET/Dean (P&D)/1140-1143	Request letter sent by Dean (P&D) to Solar Energy Corporation of India (SECI*) for finalization of IMW grid connected solar rooftop power plant	A 16	* Solar Energy Corporation of India (SECI) is a Govt. of India enterprise (CPSU) under the Administrative control of ministry of new & renewable energy responsible for implementation of Grid connected solar rooftop scheme
4.	21.08.2018	SLIET/EW/EST /01/15/836-839	In continuation to letter dated 08.07.2016, again a request sent to SECI on 21.08.2018 for finalization of IMW grid connected solar rooftop power plant	A 17	
5.	12.09.2018		Committee from SLIET visited NIT Kurukshetra to discuss on the modalities for installation of 1 MW Grid connected solar PV power project. As NIT Kurukshetra already implemented this scheme through the successful bidder of SECI. Committee met Dr JR Nakka Faculty In charge Electrical Maintenance Section. He advised to go for this work through SECI empanelled bidder for Punjab State who was M/S Azure power rooftop one Pvt. ltd New Delhi at that time.		Tour report of the committee enclosed at A-18 Letter ref. no. SECI/C&P/MNRE/10 00MW RT/IND/122016/NO A/intimation/18817 dated 29.01.2018 i.e. List of successful bidders for implementation of Grid connected solar rooftop PV system under RESCO model, phase-I A 19-22
6.	22.10.2018	SLIET/EW/EST /01/15/1041-1046	Expression of interest (EOI) called from (M/s Azure Power Rooftop One Pvt. Ltd. 3 rd Floor, Asset 301-304, Worldmark 3, Aerocity, New Delhi) successful bidder/developer empanelled by SECI under RESCO model. Further, a continuous communications made	A 23	

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			with M/s Azure Power Rooftop One through to expedite the process		
7.	06.02.2019	E-mail of M/s Azure Power Rooftop One Pvt. Ltd., New Delhi	The party replied on 06.02.2019 that SECI scheme for 50 MW under tariff Rs. 3.32 has expired.	A 24	
8.	01.04.2019	SLIET/EW/EST /01/15/03	A request letter was sent to SECI to seek advice what further action to be taken by Institute as SECI empanelled bidder for Punjab state has already exhausted his allocated capacity to install rooftop solar PV power plant.	A 25	
9.	28.08.2019	E-mail of Energy Efficiency Services Ltd. (EESL) (a JV of PSUs under Ministry of Power)	EESL approached. A request for implementation of rooftop solar PV program sent regarding installation of 1 MW solar power plant at SLIET Longowal. Consequently, representatives of EESL visited the Institute on 20.12.2019 for detailed discussions on the proposal of Rooftop solar power plant. The MOMs of discussions attached herewith. EESL submitted DPR on 14.01.2020 in which tariff offered Rs 4.58/ kwh. This proposal was under consideration; in the meantime Curfew/ Lockdown was imposed by the Govt. of India/ Govt. of Punjab due to COVID-19	A 26	
10.	08.06.2020	E-mail sent to SECI by Institute	In reference to the discussion among the committee (Dr. A.S. Arora, Chairman, IRSPP, Dr. Sanjay Marwaha, HOD-EIE, Dr. R.K. Garg, F.I. (E) & I/c EW) E-mail	A 27-38	In the mail received from SECI, it is mentioned as per process of scheme, the PPA (For RESCO project) has to be signed between SECI

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		<p>was sent to SECI to know the empanelment of successful bidders for Installation of solar PV power project in Punjab state on 08.06.2020. Accordingly, a reply along with list of empanelled bidders for Punjab State, Zone-3 was received from SECI on 09.06.2020 mentioning that tariff is Rs 3.33/kwh for Punjab state. Any of the successful bidder may be contacted to conduct the site survey as per mutual convenience & further project activity like signing of PPA & construction work etc.</p>	<p>successful bidders & building representative. These standard documents have been vetted by MoF& Ministry of Law & Justice made available with the tender</p>
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As per the reply received from SECI, a meeting of committee was held on 11.06.2020 at 10:00 AM in the O/o HOD (EIE) to pursue the matter further. As per SECI guidelines, any of the successful bidder scan be contacted for getting the site survey conducted and finalize the further project activities like signing of PPA & construction work etc.

Accordingly, the Institute approached to M/s Sun Source Energy Private Ltd. who has largest capacity of 4 MW allocated by SECI on dated 11.06.2020.No response was received from the M/s Sun Source Energy Private Ltd. (A 39).

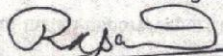
Accordingly, on 16.06.2020, an e-mail (A 40) sent to the bidder M/s Sukhbir Agro Energy Ltd. (SAEL) holding the 2nd largest allocated capacity. In response, the SAEL requested to share a copy of **Electricity consumption of the last 12 months, existing SLD & buildings** dimension layout (Annexure Page). On 19.06.2020, the Institute sent all the information to SAEL. (A 41-42).

Further, the executives of M/s Sukhbir Agro Energy Ltd. (SAEL) visited the SLIET Longowal on 03.07.2020 for detailed discussion on the modalities of SECI Govt. Building rooftop scheme 2019. The committee constituted to recommend the proposal has recommended the proposal

Current Proposal

Sukhbir Agro Energy Limited has submitted a proposal for Installation of 1000kWp (RESCO) Solar Power Plant under SECI Govt. Buildings rooftop scheme 2019.

- **SLIET will provide Site access to SAEL (Initial site visit completed)**
- Single line diagram to be discussed with SAEL technical person
- SAEL to submit initial design ASAP so that SLIET can mark and approve roofs accordingly.
- SAEL to share Solar Energy Corporation of India's Power Purchase Agreement
- SAEL to design SPV system
- DG interaction with SPV system to be discussed with SAEL technical team.
- SAEL to provide the specimen of PPA (Power Purchase Agreement) to Institute.



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- SAEL to make all the arrangement to install import/export energy meter in the Institute from PSPCL.
- This scheme is time bound by SECI and SAEL has allocation of only 3MWp out of total 15MWp for Zone three states (Haryana, Delhi, Punjab, West Bengal, Bihar, Chhattisgarh).
- SAEL has vast pipeline and already closed 1MWp, and selecting good projects like SLIET on first come first serve basis.

The draft Power Purchase Agreement (PPA) duly vetted by Ministry of finance & Ministry of Law & Justice alongwith Design of building on which PV cell to be installed in Institute is placed as Annexure A 43-105. During the visit of SAEL on dated 03.07.2020, the preliminary identified building of the Institute on which PV cell to be installed are given at A-43.

The salient features of PPA are:

1. The tariff rate of Electricity will be Rs. 3.33/kwh for 25 Years
2. The project duration is 25 Years. After the Term i.e. 25 years, the ownership of the System shall be transferred to the Purchaser i.e. SLIET free of cost.
3. The operation & maintenance will be the responsibility of the Power Producer.
4. The income tax liabilities/TDS will be of Power Producer i.e. Sukhbir Agro Energy Limited.
5. The Power producer shall install the Main Metering System with due certification for the measurement of electrical energy produced by the System.
6. The meter will be read by Power Producer's personnel on the Metering date. The authorized representative of the Purchaser shall be present at the time of meter reading. Both the Parties shall sign a joint meter reading report.
7. **Payment conditions to successful bidder of SECI:**
 - a) The Power Producer shall invoice Purchaser on the first day of each month (each, an & Invoice Date) commencing on the first Invoice Date to occur after the Commercial Operation Date, for the Solar Power Payment in respect of the immediately preceding month. The last invoice shall -include production only through the Expiration Date of this Agreement.
 - b) Purchaser shall pay all amounts due hereunder within 30 days after the date of the receipt of the invoice via email or by post (Due Date).
 - c) Purchaser shall make all payments under the Agreement by cheque / demand draft/ electronic funds transfer only in immediately available funds to the' account designated by the Power Producer from time to time. All payments made hereunder shall be non-refundable, subject to the applicable tax deduction at source, and be made free and clear of any other tax, levy, assessment; duties or other charges and not subject to reduction, set-off, or adjustment of any kind. Further, if any taxes and duties are leviable currently or in future, such taxes and duties shall be paid by the Purchaser over and above the solar electricity tariff mentioned in this agreement. Such taxes and duties could include, but not restricted to Electricity Duty, Tax on Sale of Electricity (TOSE). If the Purchaser deducts any tax at source, the Purchaser will issue a tax credit certificates as per law.
 - d) In case payment of any invoice is delayed by the Purchaser beyond its Due Date, a late payment surcharge shall be payable by Purchaser to the Power Producer at the rate of 1.25% per month (Late Payment Surcharge) calculated on the amount of outstanding payment, calculated on a day to day basis for each day of the delay, compounded on monthly rates. Late Payment Surcharge shall be claimed by the Power Producer, through its subsequent invoice.
 - e) Purchaser shall pay for any taxes, fees or charges imposed or authorized by any Governmental Authority in future (as on date no such taxes/fees/charges are being levied) on sale of the Solar Power to Purchaser pursuant to clause 7. The Power Producer shall notify Purchaser in writing with a detailed statement of such amounts, which shall be invoiced by the Power Producer in the monthly bills and payable by Purchaser. Purchaser shall timely report, make filings for, and pay any and all sales, use, income or other taxes,

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and any other amounts assessed against it due to its purchase of the Solar Power. This Section 10.1 excludes taxes specified in Section 10.2.

8. Power Producer Remedies:

If a Purchaser Default described in Sections 12.2 (a) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to Section 13, the Power Producer shall be entitled to terminate this Agreement by serving a fifteen (15) days' notice and upon such termination,

- (A) The Power Producer shall be entitled to receive from Purchaser the Purchase Price. The Purchase Price payable shall be the Purchase Price Specified in Schedule III that falls on such date. Upon the payment of the Purchase Price, the Power Producer shall cause the title of the System to transfer to the Purchaser and
- (B) The Power Producer may exercise any other remedy it may have at law or equity or under the Agreement.

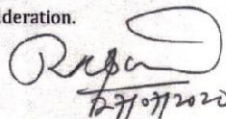
9. Expected savings

Sr. No.	Consumption of Electricity in kwh of Institute per Annum (01.04.2019-18.03.2020)	Rate of effective Tariff per kwh of PSPCL as on date Rs./kwh	SECI successful bidder tariff rate per kwh for Punjab state Rs./kwh	Approx. production of Electricity per Annum by SECI successful bidder In kwh	Saving per annum	Remarks
A	B	C	D	E	F = (C-D)x E	G
1.	3967206	Rs. 7.01	Rs. 3.33	1400000*	Rs. 51,52,000/-	The amount of Rs. 46,62,000/- (to be paid in a year in 12 months) will be paid to the SECI successful bidder

* Please refer the calculation sheet & design parameters provided by SAEL at A 106-114 (Tentative 1481000 kwh simulation data at A-112).

There is no financial implication for the Implementation of this scheme on Institute. As design, manufacturing, supply, erection, testing, conditioning, operation & maintenance will be on the part of SAEL/successful bidder of SECI. The expected saving is given in above table.

The matter is placed before the B&WC for consideration.


27/07/2020

Minutes of meeting of the internal members of Building & Works Committee and all the member of the committee constituted for 01 MW Installation of Roof Top Solar Plant at SLIET, Longowal held on 18.08.2020 at 11:00 AM in the Committee Room, Administrative Block, SLIET Longowal

The following were present :-

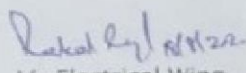
01	Director, SLIET
02	Dean (P&D), SLIET
03	Dr. A.S. Arora, Professor (EIE) & Chairman, Institute Rooftop Solar Power Plant (IRSPP)
04	Dr. Sanjay Marwaha, HoD (EIE)
05	Faculty In-charge (Civil)
06	Faculty In-charge (Electrical)
07	Estate Officer
08	In-charge Electrical Wing (Estate)
09	Registrar

The Director, SLIET briefed the committee that the proposal for installation of 01 MW Solar power Rooftops in SLIET has been recommended by the B&WC vide Resolution No. 13.01 (By circulation) and approved by the Board of Management vide Agenda Item No. 37.01 (By circulation).

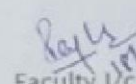
The committee deliberated the response received from M/s Sukhbir Agro Energy Limited (SAEL), New Delhi to the observations of the legal consultant of SLIET on the Power Purchase Agreement (PPA).

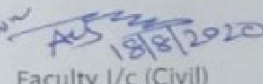
After due deliberation, the committee resolved as under:-

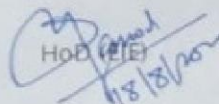
01	The response received from M/s Sukhbir Agro Energy Limited, New Delhi may be sent to Advocate K.L Singla for finalization of PPA.
02	The Estate Officer and In-charge Estate (Electrical Wing) will identify the buildings for installation of PV Cell of plant in consultation with IRSPP Committee. The Estate Officer and In-charge Estate (Electrical Wing) will be responsible for overall supervision of installation of plant in all respects.
03	Letter of Intent may be issued to M/s Sukhbir Agro Energy Limited, New Delhi for installation of Solar Plant with the request to submit the final PPA after incorporating the changes as suggested by the legal consultant of SLIET, so that the same can be signed and submit a time line for the execution of the project.



I/c Electrical Wing
(Estate)

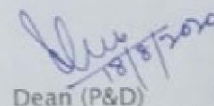

Estate Officer

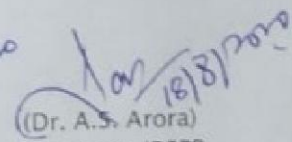

Faculty I/c
(Electrical)

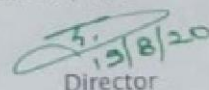

Faculty I/c (Civil)


HoD (EIE)


(Registrar)


Dean (P&D)


(Dr. A.S. Arora)
Chairman, IRSPP


Director