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6/3/20

BEFORE THE PUNJAB STATE ELECTRICITY REGULATORY
COMMISSION, SITE NO- 3, BLOCK B, SECTOR 18-A,
MADHYA MARG, CHANDIGARH.

Petition No. _____ of 2020.

In the matter of ;

Punjab Energy Development Agency

----- Petitioner

AND IN THE MATTER OF :

Petition under Section 62 of Electricity Act, 2003, Chapter VI of Conduct of Business Regulations and MYT Regulations 2014 read with other relevant provisions of the Electricity Act 2003 as well as regulations framed by this Hon'ble commission from time to time, for Determination of Levellised Generic Tariff in terms of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme for setting up of grid connected solar power plants of individual capacity ranging between 500Kw to 2MW in the State of Punjab under Component-A of the ibid scheme for sale of solar power generated thereof to the DISCOM in the State of Punjab.

INDEX

S. No.	Particulars	Page No.
1	Petition seeking levellised generic tariff	1-14
2	Affidavit in support thereof.	15-16
3	Annexure P-1 (PM-KUSUM guidelines)	17-34
4	Annexure P-2 (MNRE Sanction)	35-36
5	Annexure P-3 (PSPCL concurrence and comments)	37
6	Annexure P-4 (Calculation sheet as per CERC pattern for revised ROE)	38
7	Annexure P-5 (Aggregate CUF of solar plants setup during 2014 to 2017)	39
8	Power of attorney and Authority letter	40-41

Demand draft No.553473 dt 18.12.2019 of Rs. 60,000/- has been attached on account of fee for filing of petition.

Place: Chandigarh

Date: 06-03-2020

ADITYA GROVER, ARJUN GROVER & POOJA R SHARMA
Advocates

Counsel for the Petitioner

BEFORE THE PUNJAB STATE ELECTRICITY REGULATORY
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MEMO OF PARTIES

Punjab Energy Development Agency, having office at Plot No. 1 and 2, Sector 33D , Chandigarh, through its Director Sh. M.P Singh.

..... Petitioner

Place: Chandigarh

Date: 06-03-2020

   
ADITYA GROVER, ARJUN GROVER & POOJA R SHARMA
Advocates

Counsel for the Petitioner

**BEFORE THE PUNJAB STATE ELECTRICITY REGULATORY
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Petition No. _____ of 2020.

In the matter of ;

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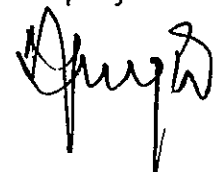
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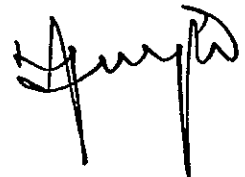
RESPECTFULLY SHOWETH :

1. That the petitioner - Punjab Energy Development Agency (PEDA) is registered as a Society under the Societies Act of 1860. The petitioner is the state nodal agency for promotion and development of renewable energy programmes/projects and



energy conservation programme in the state of Punjab, as per the NRSE Policy-2012 formulated by the State of Punjab.

2. The present petition is being preferred by the petitioner through its Director, Sh. M.P Singh who is duly authorized in this regard vide authority letter no. 2157 dated 05.03.2020 issued by the Chief Executive of the Petitioner society. Still further Sh. M.P Singh is well conversant with the facts of the instant case. A copy of the authorization letter dated 05.03.2020 is appended here to.
3. That the petitioner by way of present petition is seeking determination of "Pre Determined Tariff (As referred to in the scheme for purchase of power by Discom) in terms of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme for setting up of grid connected solar power plants of individual capacity ranging from 500Kw to 2MW under Component-A of the ibid scheme. A copy of the Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme is appended here to as **Annexure P-1**.
4. That the petitioner seeks kind indulgence of this Hon'ble Commission to look into the background of the ibid scheme – Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme, which is necessary and essential for just and effective disposal of the instant matter.
5. That as a part of Intended Nationally Determined Contributions (INDCs), India has committed to increase the share of installed capacity of electric power from non-fossil-fuel sources to 40% by 2030. Accordingly the Government of India has approved scaling-



up of solar power target from 20,000 MW of Grid Connected Solar power Projects to 1,00,000 MW by 2022.

6. That while Large Scale Solar power generation projects are being installed to achieve the ambitious target of 100 GW of Solar Power generation by 2022, the Government of India has also simultaneously planned to develop decentralized Solar energy Plants of capacity up to 2 MW which could be connected directly to the LV bus of existing 33/11 kV or 66/11 kV or 110/11 kV sub-stations of Distribution Company, thus saving in transmission system requirement apart from T&D losses. Such plants near these sub-stations may be developed, preferably by farmers, giving them an opportunity to increase their income by utilizing their barren and uncultivable land for solar or other renewable energy based power plants. Cultivable land may also be used if the Solar plants are set up on stilts where crops can be grown below the stilts and sell RE power to DISCOMs.
7. That accordingly, Government of India has brought in a scheme called Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme, which has provision of three components for setting up of decentralized renewable energy plants, stand alone off grid solar agriculture water pumps and solarisation of existing Grid connected Agriculture pumps as under:-
 - i. Component-A: Setting up of 10,000 MW of Decentralized Ground/ Stilt Mounted Grid Connected Solar or other Renewable Energy based Power Plants;

- ii. Component-B: Installation of 17.50 Lakh Stand-alone off grid solar Agriculture Pumps;
 - iii. Component-C: Solarisation of 10 Lakh Grid Connected Agriculture Pumps.
8. That though the above said scheme contains three components namely A,B and C, however at this stage the petitioner by way of present petition is seeking relief only with regard to Component-A and reserves its right to prefer separate petition with regard to other components of the scheme as and when advised for.
9. That the Government of India under the ibid scheme has decided that the Component-A and Component-C will be implemented initially on pilot mode for 1000 MW capacity and one lakh grid connected agriculture pumps respectively and Component-B will be implemented in full-fledged manner with total Central Government support of Rs. 19,036.5 Crore. Further, the Government of India has also decided that after successful implementation of pilot project of Components A and C, the same shall be scaled up with necessary modifications based on the learning from the pilot phase with total Central Government support of ₹ 15,385.5 Crores.
10. The Government of India under the scheme consisting of all three components of the scheme aim to add Solar capacity of 25,750 MW by 2022 with the total Central Financial Support of ₹ 34,422 crore.
11. That under the ibid scheme, Government of India has provided implementation mechanism for all the components. Under the Component –A, the Government of India has decided to setup

10,000 MW of Decentralized Ground/Stilt Mounted Grid Connected Solar or other Renewable Energy based Power Plants of individual plant size ranging from 500KW to 2MW to be setup by the individual farmers/ group of farmers/ cooperatives/ Panchayats/ Farmer Producer Organizations (FPO)/Water User Associations (WUA) in the entire country during the F.Y 2019-20. These plants are preferably to be installed within 5 Kilometer radius of the sub stations in order to avoid high cost of transmission lines and reduce transmission losses.

12. That in this regard, Ministry of New and Renewable Energy, Government of India has allocated a target of 30MW grid connected solar power plants to State of Punjab in favour of the petitioner for setting up of 30MW capacity under component-A of PM-KUSUM Scheme, being the State implementing agency, which is apparent from the sanction rendered by Government of India vide order dated 03.10.2019. Vide the ibid order dated 03.10.2019 various guidelines / directions have been issued by the Central Government for implementation of the Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme. A copy of the order is appended hereto as **Annexure P-2.**
13. The ibid order inter-alia provides that the petitioner shall carry out various activities as provided under the section –State implementation agency under component–A of the guidelines including creating awareness about the scheme. Thus the petitioner has been appointed as the State implementation agency for the ibid scheme in the State of Punjab and has been rendered responsibility for the successful implementation of the Pradhan

Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme in the State of Punjab. The responsibilities attributed to State implementation agencies under the ibid scheme are reproduced below :

"State Nodal Agency (SNA) will coordinate with States/UTs, DISCOMs and farmers for implementation of the scheme. They will assist the farmers in project development activities including formulation of DPR, PPA/EPC contracts, getting funds from financial institutions, etc. For settlement of any issues arising during selection of solar/ other renewable energy based power plants and their implementation, a State level Committee under the chairmanship of Principal Secretary (Renewable Energy/Energy) will be setup by the participating State/UT and SNA of that State will be responsible to coordinate/organize the quarterly meetings of the State Level Committee. In addition, SNAs shall ensure publicity of the scheme and create awareness through advertisements etc, and also monitor the implementation of the scheme. The SNA will be eligible to get service charge of Rs.0.25 Lakh per MW after commissioning of the projects.

14. That as per the scheme and the approval granted by the Government of India for implementation of component-A in the State of Punjab, it has been inter alia provided that :

- i. The Distribution company (DISCOM) will notify sub-station wise surplus capacity which can be fed from such RE power plants to the Grid. The renewable power generated will be purchased by DISCOMs at a pre-fixed levelised generic tariff and sign PPA for 25

years from the Commercial Operation Date (COD) of the project. The total energy purchased from these RE plants will be accounted for fulfillment of RPO by the DISCOM.

- ii. DISCOM will provide connectivity with the 11KV size of substation through the dedicated 11KV line laid by the Renewable Power Generator (RPG).
- iii. DISCOM will ensure must run status to the solar plants installed under the scheme and will keep the feeders ON during sunshine hours of the day.
- iv. Punjab Energy Development Agency (PEDA) is the implementing agency for Component-A as Ministry of New and Renewable Energy, Government of India has allocated a target of 30MW to PEDA
- v. PEDA shall conduct tendering process and invite applications from interested beneficiaries for setting up of the renewable energy plants as per MNRE guidelines. In case, the aggregate capacity offered by Applicants is more than notified capacity for a particular sub-station, bidding route will be followed to select Renewable Power generator and in such cases the pre-fixed levelised generic tariff will be the ceiling tariff for bidding. Selection of bidders will be based on the lowest tariff offered in the ascending order as quoted by the bidders in the closed bid or e-reverse auction as the case may be.

All the conditions specified in the PM-KUSUM scheme will be incorporated in the tender document.

15. That it is pertinent to mention here that earlier the Component-A was to be carried out primarily by the DISCOM, however as per the sanction dated 03.10.2019, it was issued by Government of India in favour of the petitioner for setting up of 30MW capacity under Component-A in the State of Punjab. Thus, the petitioner has been attributed with a major role in this regard by the Government of India for implementation of the ibid scheme being a State Nodal Agency.

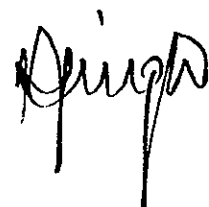
16. That the order dated 03.10.2019 inter-alia provides for the implementation and commissioning of the projects within a specified timeline as provided in the Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyaan (PM-KUSUM) itself, which stipulates that the projects should be commissioned within a period of 09 months from the date of issue of Letter of Award by State Nodal Agency – i.e the petitioner in the instant case.

Since, the ibid scheme provides for implementation of the projects in a time bound manner, thus, for the successful implementation of the ibid scheme and consequently, timely commissioning of the projects to be allotted, the Petitioner is seeking kind intervention of this Hon'ble commission on urgent basis for the determination of tariff qua the projects to be set up under the Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme under Component-A.

17. That as per the ibid scheme, it has been mandated that the DISCOMs will purchase solar power from the RFGs at the rate

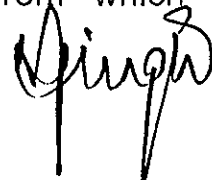
decided by the respective State/SERC. Further, DISCOM would be eligible to get Procurement Based Incentive (PBI) @ Rs. 0.40 per /unit for the purchased power or Rs. 6.6 lakh per MW of capacity installed, whichever is lower, for a period of five years from the COD.

18. That the petitioner humbly submits that as per provisions of Electricity Act 2003, this Hon'ble commission is empowered to determine tariff for the sale of power by a generating company to distribution licensee.
19. That the petitioner at its own level on the basis of the technical knowhow and the information gathered by the petitioner has finalized the capital Cost of 1 MW capacity project as Rs 340 Lakhs. It is also submitted here that:-
 - a) Rajasthan Electricity Regulatory Commission (RERC) has finalized the tariff vide order dated 11.02.2020 for sale of solar power under PM-KUSUM Scheme, as per which they have also taken Rs. 3.40 Crs. as the capital cost of 1 MW solar power plant, 20% CUF and Rs. 4.50 lacs per MW as O&M cost.
 - b) As per CERC 2016-17 order (last determined tariff by CERC), O&M is Rs. 7 lacs / MW and CUF is 19%.
 - c) Solar insolation in Punjab being less than Rajasthan and accordingly CUF for Punjab proposed was 18% whereas O&M was taken as is Rs. 4.50 lacs per MW as per RERC for generic tariff calculations. Other parameters requisite for determination of the tariff qua the projects under reference proposed as per CERC norms for 2019-20.



The Proposal with parameters as above was sent to PSPCL for concurrence and Dy. CE/IPC, PSPCL vide memo no. 240 dt, 13.02.2020 has sent comments for incorporation in the proposal (**Annexure P-3**). The comments of PSPCL are proposed to be accepted in toto except the CUF of 19%. The Return on Equity has been taken as 16.47% against 17.6% in view of the proposed rate of Income Tax of 15% as per Finance Bill 2020 for newly incorporated Domestic Generating Companies. Calculation sheet as per CERC pattern for revised ROE is enclosed as (**Annexure P-4**).

As far as CUF is concerned we propose to consider it as 17.14% for the solar power plants of capacity 1 to 2 MW to be setup under the PM-KUSUM scheme. It is to mention here that 43 Nos. small capacity (1 to 4 MW) IPP solar power plants were setup in Punjab during 2014 to 2017 and 17.14% CUF has been derived from the power sold (Trued up) by 27 Nos. solar power plants having CUF more than 15% during F.Y 2017-18 & 2018-19 as submitted by PSPCL to PSERC in the ARR for 2019-20 and 2020-21 respectively. These plants of aggregate capacity 59.50 MW had generated 88.49 MUs with cumulative CUF of 16.98% during F.Y 2017-18 and 85.66 MUs with cumulative CUF of 16.43% during 2018-19. Degradation of 1% per year has been taken and is applied with which the CUF of the commissioning years works out to be 17.26% for the projects from which power was purchased by PSPCL during 2017-18 and 17.01% for the projects from which power



purchased by PSPCL during 2018-19. The aggregate CUF of both the years works out to be 17.14% (**AnnexureP-5**).

In view of the above, we propose to consider 17.14% CUF for determining the tariff for the solar power plants to be setup under PM-KUSUM scheme.

d) The finalized parameters as per above submissions are as under:-

- Capacity = 1MW
- Aux. Consumption = 0%
- CUF = 17.14% (As per existing projects)
- Capital cost = Rs. 3,40,00,000/-
- Debt 70% = Rs. 2,38,00,000/-
- Equity 30% = Rs. 1,02,00,000/-
- Interest Rate = 10.41% (as per CERC order 2019-20)
- Loan Moratorium = 0 years
- Loan term = 13 years
- Depreciation 1 to 13 years = 5.28% (as per CERC order 2019-20)
- Depreciation 14 to 25 years = 1.78%
- Income tax = 15% (as per finance bill 2020)
- O & M for 1st year = 4.50(As per RERC)
- O & M Escalation = 5.72%(as per CERC 2019-20)
- Discount rate = 9.36% (as per CERC 2019-20)
- ROE = 16.47%(as per Calculations attached)
- Life and tariff period = 25 years



Hon'ble Commission may finalize the parameters as deemed fit under the scheme for determination of tariff.

20. That it is pertinent to mention here that the implementation of ibid scheme brought out by the Central Government is a win-win situation for all the stakeholders as the said scheme is not only of the benefit to the farmers, but shall also be of good benefit to the DISCOM, which shall get Rs. 0.40/KWh or Rs. 6.60 Lacs/MW/year whichever is lower for a period of 5 years from the date of COD for the purchase of power generated from the allocated projects under the scheme apart from adding of Solar RPO in the kitty of the DISCOM.
21. GOI, MNRE while issuing the PM-KUSUM scheme document has also issued the draft Power Purchase Agreement which will be finalized by PSPCL for execution with the selected applicants.
22. That the petitioner has not filed any such similar petition before this Hon'ble commission or before any other court of law seeking determination of tariff qua the projects under the scheme under reference.
23. That the petitioner has paid the requisite fee as per the fee regulations framed by this Hon'ble commission, for filing the present petition.

In light of the facts and circumstances mentioned above, this Hon'ble commission may kindly be pleased to:

- i) **Determine levellised generic tariff in terms of Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyaan (PM-KUSUM) Scheme for setting up of grid connected solar power plants of individual**

capacity ranging between 500Kw to 2MW in the State of Punjab under Component-A of the ibid scheme, for sale of power generated thereof to the DISCOM in the State of Punjab;

- ii) Pass any other order or grant any other relief in favor of the petitioner in the facts and circumstances of the instant case.

Place: Chandigarh

Date: 06-03-2020



Petitioner

Through

ADITYA GROVER, ARJUN GROVER & POOJA R SHARMA
Advocates
Counsel for the Petitioner

BEFORE THE PUNJAB STATE ELECTRICITY REGULATORY
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MADHYA MARG, CHANDIGARH.

Petition No. _____ of 2020.

In the matter of ;

Punjab Energy Development Agency



----- Petitioner

Affidavit Of M.P Singh, age 53 years, Director,
Punjab Energy Development Agency, Plot No.
1-2, Sector-33 D, Chandigarh.


I the above named deponent do hereby solemnly declare and affirm as under:

1. That the Deponent is the Director of the Petitioner Society and is duly authorized and competent to file the present Petition. The Deponent is also well conversant with the facts of the present matter.
2. That the contents of the accompanying petition are true and correct to the best of my knowledge derived from the official record of the Petitioner society. No part of it is false and nothing material has been concealed therein.
3. That the petitioner has not filed any such similar petition before this Hon'ble commission or before any other court of law seeking determination of tariff qua the projects under the scheme under reference.

Chandigarh

Date:

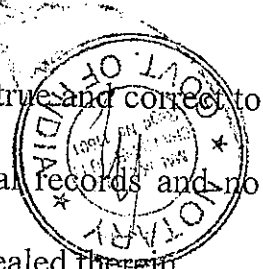
06 MAR 2020


Deponent
06 MAR 2020

06 MAR 2020

Verification:

Verified that the contents of my above affidavit are true and correct to the best of my knowledge derived from the official records and no part of it is false and nothing material has been concealed therein.



Chandigarh

Date:

[Signature]
Deponent

06 MAR 2020



*gaurjit / M. S. Sarin
pal Sirs who signed
upon 9/cor 40,*

I identified the deponent/executor who signed/thumb marked in my presence.

The contents of this Affidavit Document has been explained to the deponent / executor. He / she has admitted the same to be correct. The deponent / executor has signed Registered.

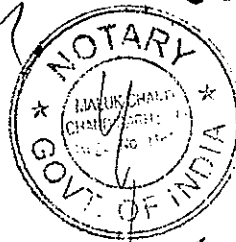
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06 MAR 2020

06 MAR 2020

*gaurjit Sarin
9/cor 40,*



ATTESTED AS IDENTIFIED
MALUK CHAND
NOTARY CHANDIGARH.

06 MAR 2020



F. No. 32645/2017-SPV Division
Government of India
Ministry of New and Renewable Energy

Block-14, CGO Complex,
Lodhi Road, New Delhi
Dated: 22 July, 2019

Office Memorandum

Subject: Guidelines for implementation of Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhayan Scheme.

This refers Ministry's OM of even number dated 8.3.2019 vide which sanction was issued for launch of New Scheme for Farmers covering following three Components:


- i. Component A: 10,000 MW of Decentralized Ground Mounted Grid Connected Renewable Power Plants of individual plant size up to 2 MW.
- ii. Component B: Installation of 17.50 lakh standalone Solar Powered Agriculture Pumps of individual pump capacity up to 7.5 HP.
- iii. Component C: Solarisation of 10 Lakh Grid-connected Agriculture Pumps of individual pump capacity up to 7.5 HP.

2. The Scheme will be called as Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhayan (PM KUSUM) Scheme. The operational Guidelines for implementation of the PM KUSUM Scheme are enclosed.

3. This issues with the approval of Competent Authority.

Enclosed: As above.

To
All Concern


24/7/19
(J.K. Jethani)
Scientist-I



Ministry of New and Renewable Energy

Guidelines for Implementation of Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhayan (PM KUSUM) Scheme

1. Background

As a part of Intended Nationally Determined Contributions (INDCs), India has committed to increase the share of installed capacity of electric power from non-fossil-fuel sources to 40% by 2030.

The Cabinet had approved scaling-up of solar power target from 20,000 MW of Grid Connected Solar power Projects to 1,00,000 MW by 2022.

While Large Scale Solar power generation projects are being installed to achieve the ambitious target of 100 GW of Solar Power generation by 2022, it has been planned to simultaneously develop decentralized Solar energy and other renewable energy generation Plants of capacity up to 2 MW which could be connected directly to existing 33/11 kV or 66/11 kV or 110/11 kV sub-stations of Distribution Company, thus saving in transmission system requirement apart from T&D losses. Such plants near these sub-stations may be developed, preferably by farmers, giving them an opportunity to increase their income by utilising their barren and uncultivable land for solar or other renewable energy based power plants. Cultivable land may also be used if the Solar plants are set up on stilts where crops can be grown below the stilts and sell RE power to DISCOMs.

Besides, developing decentralized renewable power, it is planned to replace Agriculture Diesel pumps with Solar Water pumps and Solarise Grid connected Agriculture pumps. At present, over 30 million agricultural pumps are installed in India, out of which nearly 10 million pumps are diesel based. The Distribution Companies (DISCOMs) are not in a position to energize these pumps through grid connection as seen from the long waiting lists with such Distribution Companies. Hence there is a need to provide energy to these pumps through solar energy. Also, over 20 million grid-connected agriculture water pumps installed in the country consume more than 17 percent of total annual electricity consumption of the country. Solarization of the same can reduce dependence of these pumps on conventional sources of energy supplied by DISCOMs and thus reducing their burden of subsidy on agriculture consumption of Electricity. This will also provide additional source of income to farmers who will be in a position to sell the surplus power to DISCOMs.

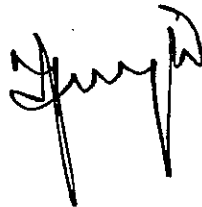
The new Scheme has provision for the decentralised renewable energy plants, Solar agriculture water pumps and solarisation of existing Grid connected Agriculture pumps.

2. Approval of the New Scheme for Farmers

The Government of India has launched New Scheme for Farmers with following components:

- i. Component-A: Setting up of 10,000 MW of Decentralized Ground/ Stilt Mounted Grid Connected Solar or other Renewable Energy based Power Plants;
- ii. Component-B: Installation of 17.50 Lakh Stand-alone Solar Agriculture Pumps; and

Page 2



iii. Component-C: Solarisation of 10 Lakh Grid Connected Agriculture Pumps.

The Component-A and Component-C will be implemented initially on pilot mode for 1000 MW capacity and one lakh grid connected agriculture pumps respectively and Component-B will be implemented in full-fledged manner with total Central Government support of Rs. 19,036.5 Crore.

After successful implementation of pilot project of Components A and C, the same shall be scaled up with necessary modifications based on the learning from the pilot phase with total Central Government support of ₹ 15,385.5 Crores.

All three components of the scheme aim to add Solar capacity of 25,750 MW by 2022 with the total Central Financial Support of ₹ 34,422 crore.

3. Implementation mechanism:

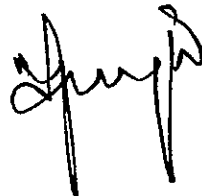
These guidelines have been formulated to provide broad implementation framework of the Scheme.

I. Component A: Setting up of 10,000 MW of Decentralized Ground/Stilt Mounted Grid Connected Solar or other Renewable Energy based Power Plants

Under this component, solar or other renewable energy based power plants (REPP) of capacity 500 kW to 2 MW will be setup by individual farmers/ group of farmers/ cooperatives/ panchayats/ Farmer Producer Organisations (FPO)/Water User associations (WUA) hereinafter called Renewable Power Generator (RPG). However, States/DISCOMs may allow setting-up of solar or other renewable energy based power plants of capacity less than 500 kW in specific cases. The REPP will be preferably installed within five km radius of the sub-stations in order to avoid high cost of sub-transmission lines and to reduce transmission losses.

The Distribution companies (DISCOMs) will notify sub-station wise surplus capacity which can be fed from such RE power plants to the Grid and shall invite applications from interested beneficiaries for setting up the renewable energy plants. The renewable power generated will be purchased by DISCOMs at a pre-fixed levelised tariff. In case, the aggregate capacity offered by Applicants is more than notified capacity for a particular sub-station, bidding route will be followed by DISCOMs to select Renewable Power generator and in such cases the pre-fixed levelised tariff will be the ceiling tariff for bidding. Selection of bidders will be based on the lowest tariff offered in the ascending order as quoted by the bidders in the closed bid or e-reverse auction as the case may be. A model PPA (Power Purchase Agreement) to be executed between RPG and DISCOMs has been prepared by MNRE and attached at Annexure-I. The duration of PPA will be 25 years from Commercial Operation Date (COD) of the project. The total energy purchased from these RE plants will be accounted for fulfillment of RPO by the DISCOM.

In case the farmers/ group of farmers/ cooperatives/ panchayats/ Farmer Producer Organisations (FPO)/ Water User associations (WUA) etc. are not able to arrange equity required for setting up the REPP, they can opt for developing the REPP through developer(s) or even through local DISCOM, which will be considered as RPG in this case. In such a case, the land owner will get lease rent as mutually agreed between the parties. The lease rent may be in terms of Rs per year per acre of land or in terms of Rs per unit energy generated per acre



of land area. The farmer(s) may opt for payment of lease rent directly in their bank account by the DISCOM, from the payment due to the developer. A model Land Lease Agreement to facilitate the beneficiaries has been prepared by MNRE and is attached at Annexure-II. However, the terms of Land Lease Agreement may be finalised on mutual consent of concerned parties.

The REPP under the scheme would be implemented primarily on Barren / uncultivable land. Agricultural land is also permitted under the scheme provided that solar plants are installed in stilt fashion (i.e. raised structure for installation of Solar panels) and with adequate spacing between panel rows for ensuring that farming activity is not affected. The RPG would be free to adopt any renewable energy source or technology while responding to the bid. However, in case of cultivable land with solar plants, the same may be installed on stilts, so that the farmers continue to cultivate the land, apart from getting the benefit of lease rent. In such a case DISCOM may also float bids (in case of specific substations) where setting up of solar projects on stilts may be mandatorily required, and bids for energy tariff invited accordingly.

A. Selection and Implementation of Decentralised Renewable Energy Power Plants

a. Notification of sub-station wise generation capacity

DISCOM shall assess and notify RE generation capacity that can be injected in to all 33/11 kV or 66/11 kV or 110/11 kV sub-station of rural areas and place such notification on its website for information of all stakeholders. To facilitate farmers willing to lease out their land for development of RE plants near above notified substation(s), as per provisions of this scheme, DISCOM may also place list of such farmers on their website. However, the leasing of land of any farmers will be a bi-partite agreement between the farmer and the developer and DISCOM will not be held responsible for failure in getting the land leased out to a developer. To meet additional demand DISCOM will augment the capacity of sub-station under IPDS or any other scheme.

b. Expression of Interest (EoI) for Short-listing of RPG

DISCOM or any agency authorized by the DISCOM shall invite 33/11 kV or 66/11 kV or 110/11 kV sub-station wise EoI from RPG to participate in selection process for development of decentralised renewable power plants. The RPG shall submit their interest against the EoI as per the schedule notified by DISCOM. An RPG will not be allowed to apply for more than one renewable power plant for a particular 33/11 kV sub-station. The EoI of an RPG will also be disqualified if it is found that its proprietor/partner/director/member has also filed EoI as proprietor/partner/director/member for another RPG for the same sub-station.

The DISCOM or any agency authorized by the DISCOM may request to submit non-refundable processing fee from the interested RPGs, which in no case shall be higher than Rs. 5000 per MW or part thereof of the capacity applied for.

In order to ensure only quality systems are installed, prevailing MNRE/BIS specifications and quality control orders applicable for solar modules, inverters, BoS and other equipment shall be followed.

In case of REPP being developed by a developer, the Net-Worth of the developer should not be less than Rs. 1.00 Crore per MW (of the capacity applied). This shall not be applicable for

farmers cooperative or panchayats or Farmer Producer Organisations (FPO) /Water User associations (WUA) or farmers setting up REPP in their own lands.

c. Selection of REPP

In case the total aggregate capacity of eligible applications received for a particular sub-station is less than or equal to the capacity notified for connectivity at the sub-station, LoA will be awarded to all eligible applicants for procurement of renewable power at a pre-fixed levelised tariff.

In case the total aggregate capacity of eligible application received for a particular sub-station is more than the capacity notified for connectivity at the sub-station, then DISCOM or any agency authorized by the DISCOM shall invite Bids from all these applicants. All eligible applicants will have to submit tariff bids within a prescribed time. Selection of bidders will be based on the lowest tariff offered in the ascending order as quoted by the bidders in the closed bid or e-reverse auction as the case may be. LoA will be awarded to all successful bidders.

d. Connectivity with the sub-station

REPP of capacity up to 2 MW may be connected at 11 kV side of sub-station and the selected RPG will be responsible for laying of dedicated 11 kV line from REPP to sub-station, construction of bay and related switchgear at sub-station where the plant is connected to the grid and metering is done. The DISCOM will facilitate the RPG in getting right of way for laying of 11 kV line. Alternatively, RPG can get constructed the 11 kV lines through DISCOM by paying the applicable cost and other charges. RPG will be responsible for maintaining this dedicated 11 kV line. In case more than one bidders are awarded projects to be connected to same Sub-station, they shall be permitted to co-ordinate with each other for setting up common transmission line for feeding to Sub-Station if they so desire and with the approval of DISCOM. However, in North Eastern States, Sikkim, Jammu & Kashmir, Himachal Pradesh and Uttarakhand, Lakshadweep and A&N Islands, where States/UTs allows RE plants of capacity less than 500 kW the plant may be connected through LT line subject to technical feasibility and approval by DISCOM.

The RPG shall comply grid connectivity and other regulations as applicable.

e. Clearances required from the State Government and other local bodies

The RPG is required to obtain necessary clearances as required for setting up the REPP.

f. Power Purchase Agreement (PPA)

A copy of standard Power Purchase Agreement to be executed between the DISCOM and the RPG shall be provided by DISCOM along with invitation for submission of EoI. The model PPA agreement shall be as provided by MNRE (Copy enclosed). Within two months of the date of issue of Letter of Award (LoA) by DISCOM or any agency authorized by the DISCOM, the Power Purchase Agreement (PPA) will have to be executed by RPG. The PPA shall be for a period of 25 years from the date of COD. The DISCOM will be obliged to buy the entire power from RPG within the contract capacity. However, the RPG is required to achieve a minimum CUF of 15% on annual basis during the PPA period. However, in case of low Solar radiation zones, minimum CUF can be revised by concerned DISCOM. The RPG will be free to operate the plant after expiry of the 25 years of PPA period if other conditions like land

lease, etc., permits. However, any extension of the PPA period beyond 25 years shall be through mutual agreements between the RPG and DISCOM. As a payment security measure DISCOM will have to maintain LC and Escrow Arrangement as defined in the PPA.

g. Bank Guarantees

The RPG shall provide the following Bank Guarantees to DISCOM as follows:

- Earnest Money Deposit (EMD) of Rs. 1 Lakh/MW in the form of Bank Guarantee along with EoI.
- Performance Bank Guarantee (PBG) of Rs. 5 Lakh/MW within 30 days from date of issue of Letter of Award.

The Bank Guarantees against EMD shall be returned to the selected RPG on submission of valid PBGs. The selected RPGs are required to sign PPA with the DISCOM in line with the timeline given in the Guidelines. In case, the selected RPG fails to execute the PPA within the stipulated time period, the Bank Guarantee equivalent to EMD shall be en-cashed by DISCOM as penalty. In case any bidder is not selected, DISCOM shall release the EMD within 15 days of the date of issue of LoA to selected RPG(s). The PBGs shall be valid for a period of 12 months from the date of issue of LoA for the REPP. The PBG will be returned to the RPG immediately after successful commissioning of solar power plant, after taking into account any penalties due to delay in commissioning as per provisions stipulated in the Guidelines.

h. Commissioning

The selected RPG shall commission the solar power plant within nine months from date of issuance of LoA. The RPG may commission the REPP during this period of nine months and the DISCOM is obliged to purchase power from that commissioned REPP any time after the issuance of LoA. A duly constituted Committee of DISCOM officials will physically inspect the Plant in not more than 03 days from the date of receiving a call from the RPG and certify successful commissioning of the plant. In case any RPG fails to achieve this milestone, DISCOM shall encash the Performance Bank Guarantee (PBG) in the following manner:

- a. Delay up to two months - The PBG on per day basis and proportionate to the balance capacity not commissioned.
- b. In case the commissioning of the solar power plant is delayed over two months, the PPA capacity shall stand reduced / amended to the Project capacity commissioned at the end of 11th month from date of issuance of Letter of Award.

In case of delays of plant commissioning due to the reasons beyond the control of the RPG, DISCOM after having been satisfied with documentary evidences produced by the RPG for the purpose, can extend the time for commissioning date without any financial implications to the RPG.

i. Shortfall in minimum generation

During PPA, if for any year, it is found that the RPG has not been able to generate minimum energy corresponding to CUF of 15% or as prescribed by DISCOMs; such shortfall in performance shall make RPG liable to pay the compensation as provided in the PPA to the DISCOM. This will, however be relaxable to the extent of grid non-availability for evacuation, which is beyond the control of the RPG. Further, this compensation shall not be applicable in



events of Force Majeure identified under PPA with Discom affecting supply of solar power by RPG.

j. Commercial Operation Date (COD)

The Commercial Operation Date (COD) shall be considered as the actual date of commissioning of the solar power plant as declared by the Commissioning Committee.

k. Release of PBI to DISCOM

DISCOM would be eligible to get PBI @ Rs. 0.40 per unit purchased or Rs. 6.6 lakh per MW of capacity installed, whichever is less, for a period of five years from the COD. However, to avail the PBI, DISCOM shall submit following documents after completion of one year from the COD and every year thereafter till five years:

- Timely payment of monthly lease rent, if applicable, to the land owner of the project.
- Monthly units purchased from the plant and corresponding payment made to the project developer.

Applicable PBI would be released to the DISCOM after submission of these documents by DISCOM to MNRE.

B. Roles and responsibilities of stakeholders:

(i) Ministry of New and Renewable Energy:

MNRE shall allocate initial capacity of 1000 MW for Pilot Project to DISCOMs based on their demand and readiness for implementation. Pilot projects will be continuously monitored during implementation and also on completion to evaluate their success and a detailed report will be prepared for recommending further scaling up of the capacity under this component. Such evaluation may be done internally or through external agency as per decision of the MNRE.

Ministry will issue Model PPA and model Lease Agreement for implementation of the scheme.

MNRE will provide Procurement Based Incentive (PBI) to the DISCOMs @ 40 paise/kWh or Rs.6.60 lakhs/MW/year, whichever is lower, for buying solar/ other renewable power under this scheme. The PBI will be given to the DISCOMs for a period of five years from the Commercial Operation Date of the plant. Therefore, the total PBI that shall be payable to DISCOMs will be Rs. 33 Lakh per MW.

(ii) DISCOMs:

The DISCOMs shall have to send their demand for sanction under the scheme along with details on their readiness to implement the component A of the scheme.

The concerned DISCOM shall declare the renewable power capacity that can be connected to a 33/11 kV sub-station and carry-out the procedure for selection of RPG. On selection of RPG, DISCOMs shall issue the LoA and sign PPA with RPG. DISCOMs will provide connectivity at the sub-station to the selected RPG. The DISCOMs will ensure "must-run" status to the solar/ other renewable power plants installed under this scheme and will keep the feeders 'ON'

during sunshine hours of a day. They shall act as facilitator to the beneficiaries in implementation of this scheme.

In case, RPG has taken land from a farmer/group of farmers on lease for the project, the amount of monthly lease rent would be paid by the DISCOMs to the lessor directly in his/her bank account before 5th day of the month following the month for which the lease rent is due. In such a case, the lease rent paid by the DISCOM will be deducted from monthly payment due to the RPG.

(iii) State Nodal Agency (SNA):

State Nodal Agency (SNA) will coordinate with States/UTs, DISCOMs and farmers for implementation of the scheme. They will assist the farmers in project development activities including formulation of DPR, PPA/EPC contracts, getting funds from financial institutions, etc. For settlement of any issues arising during selection of solar/ other renewable energy based power plants and their implementation, a State level Committee under the chairmanship of Principal Secretary (Renewable Energy/Energy) will be setup by the participating State/UT and SNA of that State will be responsible to coordinate/organize the quarterly meetings of the State Level Committee. In addition, SNAs shall ensure publicity of the scheme and create awareness through advertisements etc, and also monitor the implementation of the scheme. The SNA will be eligible to get service charge of Rs.0.25 Lakh per MW after commissioning of the projects.

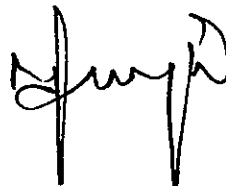
(iv) Renewable Power Generator (RPG):

Individual farmers/ group of farmers/ cooperatives/ panchayats/ Farmer Producer Organisations (FPO)/Water User associations (WUA) or projects developer would be the RPG. They have to participate in the selection process to be carried out by DISCOMS. In case of selection, they have to sign PPA and install the plant as per provisions of these guidelines and applicable rules and regulations.

II. Component B: Installation of 17.50 Lakh Stand-alone Solar Pumps

Under this Component, individual farmers will be supported to install standalone solar Agriculture pumps of capacity up to 7.5 HP for replacement of existing diesel Agriculture pumps / irrigation systems in off-grid areas, where grid supply is not available. Installation of new pumps shall also be permitted under this scheme except in dark zone areas. Pumps of capacity higher than 7.5 HP may be allowed, however, the CFA will be limited to the CFA applicable for pump of 7.5 HP. Water User Associations and community/cluster based irrigation system will also be covered under this component. However, priority would be given to small and marginal farmers. In order to minimize the water usage for irrigation purpose, preference will be given to the farmers using Micro irrigation systems or covered under Micro irrigation schemes or who opt for micro irrigation system. The size of pump would be selected on the basis of water table in the area, land covered and quantity of water required for irrigation.

Solar PV capacity in kW for the pump capacity in HP will be allowed as per MNRE specifications under the scheme It will be mandatory to use indigenously manufactured solar panels with indigenous solar cells and modules. Further, the motor-pump-set, controller and balance of system should also be manufactured indigenously. The vendor has to declare the list of imported components used in the manufacturing of solar water pumping system.



CFA of 30% of the benchmark cost or the tender cost, whichever is lower, of the stand-alone solar Agriculture pump will be provided. The State Government will give a subsidy of 30%; and the remaining 40% will be provided by the farmer. Bank finance may be made available for farmer's contribution, so that farmer has to initially pay only 10% of the cost and remaining up to 30% of the cost as loan. In case the State Government provides subsidy more than 30%, the beneficiary share will reduce accordingly.

However, in North Eastern States, Sikkim, Jammu & Kashmir, Himachal Pradesh and Uttarakhand, Lakshadweep and A&N Islands, CFA of 50% of the benchmark cost or the tender cost, whichever is lower, of the stand-alone solar pump will be provided. The State Government will give a subsidy of 30%; and the remaining 20% will be provided by the farmer. Bank finance may be made available for farmer's contribution, so that farmer has to initially pay only 10% of the cost and remaining up to 10% of the cost as loan. In case the State Government provides subsidy more than 30%, the beneficiary share will reduce accordingly.

New Solar Agriculture pumps would not be covered under this component in Dark zones/black zones. However, existing standalone diesel pumps, can be converted into standalone solar pumps in these areas provided they use micro irrigation techniques to save water.

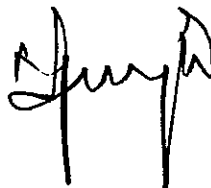
Possibilities would be explored by implementing agencies for convergence of present scheme with schemes on promotion of micro irrigation system and replacement of agriculture pumps with energy efficient pumps and they may work out the modalities in coordination with respective Ministries/Departments.

Further, whenever the grid reaches in the off-grid area, the stand alone Solar Agriculture Pumps can be connected to the grid to feed surplus power depending on grid capacity. DISCOMs may purchase this surplus power from the farmer at the rate decided by the respective State/SERC.

DISCOMs/ Agricultural Department/ Minor Irrigation Department / any other Department designated by State Government will be the implementing agencies for this component. 2% of the eligible CFA will be provided as service charges in totality to all the agencies involved in implementation including the designated State Implementing Agency. Part of service charges (to be decided by MNRE) shall be given to the central agency for centralised tendering. Additionally, some part of the service charge may also be retained by MNRE for nation-wide centralized IEC activities.

a. Allocation and procurement of pumps

State-wise allocation of solar pumps will be issued by MNRE once in a year or as and when required, after approval by a Screening Committee under the chairmanship of Secretary, MNRE. Much before the start of every financial year during the Scheme tenure, MNRE will call for submission of demand from the implementation agencies. Based on overall target for the year and the demand received from implementation agencies, MNRE will allocate quantity of pumps to the implementation agencies in the States. On acceptance of the allocated quantity by the implementation agencies and submission of detailed proposal as per MNRE format, within a given time period, final sanction will be issued by MNRE. MNRE will have the discretion to amend the sanction any time of the year after ascertaining the pace of progress in any particular state, or as per requirements of the scheme.



Implementing agencies will submit proposals through online portal to MNRE for approval. Offline proposals will not be accepted, unless MNRE has given a general exemption from the requirement of online submission to any agency for any specific period of time.

Proposals for new installations will only be considered by the Screening Committee. Proposals wherein the systems have already been installed/ under installation will not be considered for approval under the Programme by the Screening Committee.

There will be centralized tendering of solar water pumping system through Central PSUs. These CPSUs will carry out tendering process as per Guidelines and standards & specifications issued by MNRE. Any deviation shall normally be not permissible except in specific cases with the approval of Secretary, MNRE.

For centralized tendering the designated CPSUs may come out region-wise/State-wise tenders, however, their role will be limited to selection of bidders and discovery of rates. To ensure quality and post installation services only manufacturers of solar water pumps or controllers or manufacturers of solar panels would be allowed to participate in the bidding process. Normally, three bidders would be selected and they have to match L1 rates and the quantity allocated to those who agree to match the L1 rates them would be 50%, 30%, and 20% of the total tender quantity respectively in the ascending order of rates quoted by them. Number of bidders selected may vary depending upon the tender quantity. The selection of beneficiaries and implementation of scheme would be the responsibility of the State Implementation Agency. Cluster based approach would be used for allocation of districts to the selected bidders to optimize the resources and ensure quality services made available to the farmer. As far as possible contiguous districts would be allotted to the successful bidders, with the total requirements of pumps in the allocated area matching the quantity allotted to them.

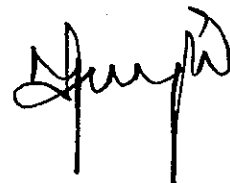
Installation of 17.5 lakh Stand-alone Solar Water Agriculture Pumping Systems will create solar PV capacity of over 8000 MW. Since pumps are generally used for 150 days in a year, this capacity can be optimally utilized by using Universal Solar Pump Controller (USPC), through which farmer can use solar power for other activities like operating chaff cutter, floor mill, cold storage, drier, battery charges, etc., and increase his income. Option would be given to the farmer to opt for USPC and additional cost of solar PV pumping system with USPC would be discovered by the tendering agency. The entire additional cost for solar pumping system with USPC would be borne by the farmer. States/UTs may bear this additional cost to facilitate use of solar energy for other activities and increasing the income of farmers.

In all cases, the successful bidder shall provide AMC for five years from the date of installation, real time monitoring, helpline, district level service centres and comply standards of performance in dealing with complaints/redressal mechanism.

The Implementation Agency would also be responsible for carrying out publicity of the scheme so as to increase awareness amongst potential beneficiaries. For this purpose, apart from their own publicity content, they shall also be guided by advice of MNRE on this matter.

b. Installation timeline and Penalties

Projects for installation of solar Agriculture pumps systems shall be completed within 12 months from the date of sanction by MNRE. However, for North Eastern States including Sikkim, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Lakshadweep and A&N Islands



this time limit will be 15 months from the date of sanction. Extension in project completion timelines, up to a maximum period of three months, will be considered at the level of Group Head in MNRE and upto 6 months at the level of Secretary in MNRE on submission of valid reasons by the implementing agency. However, such extension will attract reduction in service charges to implementing agency as under:

- a. 10% reduction in applicable service charges for delay of more than one month in completion of project.
- b. Further reduction of 10% of service charges for delay of more than two month and up to three months.
- c. Further reduction of 10% of service charges for delay of more than three month and up to six months
- d. No service charges for delay in completion of more than six months.

No extension will be granted beyond six months and only the systems which are installed in all respects and commissioned within stipulated time period will be considered for release of CFA.

c. Release of funds

Funds up to 40% of the applicable CFA for the sanctioned quantity would be released as advance to the implementing agency only after placement of letter of award(s) to the selected vendors. The implementing agencies may pass on this fund to the selected vendors in different stages on achievement of various milestones as per terms and conditions of letter of award(s). Second installment up to 30% of the applicable CFA would be released on submission of UCs and SoE for the first release. The balance eligible CFA along with applicable service charges would be released on acceptance of the Project Completion Report in the prescribed format, Utilization Certificates as per GFR and other related documents by the Ministry.

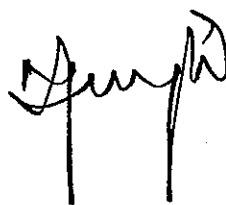
d. Monitoring and maintenance

Selected vendors shall be responsible for design, supply, installation and commissioning of solar agriculture pumps. Vendors will mandatorily provide AMC for a period of 5 years from the date of commissioning of the systems including insurance coverage for the installed systems against natural calamities and theft. AMC will include inspection by Vendor at least once in a quarter and submission of quarterly inspection report of the installed pumps as per prescribed format. To ensure timely maintenance of the systems the vendor shall have one authorized service centre in each operational district and a helpline in local language in each operational State. Helpline number shall be indicated on the pump/ controller at suitable location easily visible to the user.

All solar Agriculture pumps sanctioned under the Programme shall be provided with remote monitoring system by the vendor. It will be mandatory to submit performance data of solar power plant online to MNRE in the manner and format prescribed by MNRE.

Monitoring of the Scheme and its implementation will be carried out during the period of implementation of the Scheme as is given below:

- i. The implementing agency would be responsible for monitoring parameters such as end-use verification and compilation of statistical information.



- ii. Implementing agencies will submit monthly progress report for the sanctioned projects.
- iii. Funds may be released by implementing agency to the vendor on submission of bank guarantee equivalent to 10% of the cost of systems installed by that vendor for a period of five years. Alternatively, BG may be provided initially for a period of one year which may be extended on year to year basis thereafter.
- iv. The Ministry officials or designated agency may inspect the ongoing installation or installed plants. In case the installed systems are not as per standards, non-functional on account of poor quality of installation, or non-compliance of AMC, the Ministry reserves the right to blacklist the vendor. Blacklisting may inter-alia include the following:
 - a. The Vendor/Firm will not be eligible to participate in tenders for Government supported projects.
 - b. In case, the concerned Director(s) of the firm/company joins another existing or starts/ joins a new firm/company, the company will automatically be blacklisted.

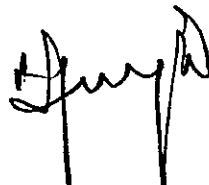
e. Responsibilities of Implementation Agency

The Implementing Agencies will be responsible for the following activities:

- i. Demand aggregation for solar Agriculture pumps through online portal.
- ii. Prepare proposal and submit to MNRE for sanction
- iii. Oversee installation of systems.
- iv. Inspection of installed systems and online submission of completion reports to MNRE.
- v. Submission of utilization certificates and audited statement of expenditure through EAT module and disbursement of MNRE CFA.
- vi. Online submission of monthly and quarterly progress reports.
- vii. Ensure project completion within the given timelines and compliance of MNRE Guidelines and Standards.
- viii. Online and offline maintenance for records.
- ix. Real time monitoring through dedicated web-portal
- x. Performance monitoring of installed system through third party
- xi. Ensure compliance of AMC and training of locals by the vendors.
- xii. Carrying out publicity of the scheme so as to increase awareness, for which purpose advice of MNRE may also be adopted apart from its own publicity.
- xiii. Any other activity to ensure successful implementation of the programme.

III. Component C: Solarisation of 10 Lakh Grid Connected Agriculture Pumps

Under this Component, individual farmers having grid connected agriculture pump will be supported to solarise pumps. Solar PV capacity up to two times of pump capacity in kW is allowed under the scheme. However, State may specify lower solar PV capacity in kW, which



in any case shall be not be less than pump capacity in HP e.g. for 2 HP pump it will not be less than 2 kW. The farmer will be able to use the generated solar power to meet the irrigation needs and the excess solar power will be sold to DISCOMs. Water User Associations and community/cluster based irrigation system will also be covered under this component. However, priority would be given to small and marginal farmers. In order to minimize the water usage for irrigation purpose, preference will be given to the farmers using Micro irrigation systems or covered under Micro irrigation schemes or who opt for Micro irrigation systems.

Possibilities would be explored by implementing agencies for convergence of present scheme with schemes on promotion of micro irrigation system and replacement of agriculture pumps with energy efficient pumps and they may work out the modalities in coordination with respective Ministries/Departments.

It will be mandatory to use indigenously manufactured solar panels with indigenous solar cells and modules. Further, the balance of system should also be manufactured indigenously. The vendor has to declare the list of imported components used in the solarisation system.

CFA of 30% of the benchmark cost or the tender cost, whichever is lower, of the solar PV component will be provided. The State Government will give a subsidy of 30%; and the remaining 40% will be provided by the farmer. Bank finance may be made available for farmer's contribution, so that farmer has to initially pay only 10% of the cost and remaining up to 30% of the cost as loan. In case the State Government provides subsidy more than 30%, the beneficiary share will reduce accordingly.

However, in North Eastern States, Sikkim, Jammu & Kashmir, Himachal Pradesh and Uttarakhand, Lakshadweep and A&N Islands, CFA of 50% of the benchmark cost or the tender cost, whichever is lower, of the solar PV component will be provided. The State Government will give a subsidy of 30%; and the remaining 20% will be provided by the farmer. Bank finance may be made available for farmer's contribution, so that farmer has to initially pay only 10% of the cost and remaining up to 10% of the cost as loan. In case the State Government provides subsidy more than 30%, the beneficiary share will reduce accordingly.

Further, the CFA will be limited to Solar PV capacity up to two times of pump capacity in kW for pumps up to 7.5 HP. Solarisation of Pumps of capacity higher than 7.5 HP may be allowed, however, the CFA will be limited to the CFA applicable for pump of 7.5 HP in the respective ✓State/UTs. This will help to create an avenue for extra income to the farmers, and for the DISCOMs to meet their RPO targets. The solar power fed in to the grid and solar power utilized by farmer both will be accounted for fulfillment of solar RPO by the DISCOM.

DISCOM may adopt any of the modalities for solarisation of pumps viz, (i) Net-metering: in this case the agriculture pump will continue to run at rated capacity taking power from solar panels and balance power from grid, if required, and in case solar power generation is higher than required by pump, the additional solar power would be fed to the grid; (ii) Pump to run on solar power only: in this case the pump will run from the solar power as in case of stand-alone solar pump and no power will be drawn from the grid for operation of pump. In case solar power generation is higher than required by pump, the additional solar power would be fed to the grid.

DISCOMs /GENCO/ any other Department designated by State Government will be the implementing agencies. 2% of the eligible CFA will be provided as total service charges to all agencies implementing the scheme including the designated State Implementing Agencies. In case of centralised tendering, some percentage/fixed amount out of service charges (to be decided by MNRE) shall be given to the central agency. MNRE may also retain a certain amount from service charge for nation-wide centralised IEC activities.

This component will be applicable to farmers already connected to grid. Feeder-wise implementation is proposed to be carried out. All agriculture pumps in a feeder will be solarised, however, States may impose a minimum solarisation requirement for a feeder in terms of minimum % of pumps solarized on that feeder.

In case of dark zones/black zones only existing grid connected pumps will be solarized provided they use micro irrigation techniques to save water.

Possibilities would be explored by implementing agencies for convergence of present scheme with schemes on promotion of micro irrigation system and replacement of agriculture pumps with energy efficient pumps and they may work out the modalities in coordination with respective Ministries/Departments.

DISCOMs will purchase excess power from the farmer at the rate decided by the respective State/SERC. The DISCOMs will ensure "must-run" status to the solarised feeders and will keep such feeders 'ON' during sunshine hours of a day.

It will be mandatory for implementing agency to create remote monitoring system to monitor performance of the system post-installation.

States may also formulate state specific policy for grid connected solar pumps, customised to needs of the respective State, keeping the broad framework provided by MNRE intact.

a. Allocation of solarisation capacity and procurement

State-wise allocation for solarisation of pumps will be issued by MNRE once in a year, after approval by a Screening Committee under the chairmanship of Secretary, MNRE. In the beginning of every financial year during the Scheme tenure, MNRE will call for submission of feeder-wise demand for solarization. Based on overall target for the year and the demand received from implementation agencies, MNRE will allocate solarization capacity to the implementation agencies in the States. On acceptance of the allocated quantity by the implementation agencies and submission of detailed proposal as per MNRE format, with in a given time, final sanction will be issued by MNRE.

As per approval, the component is to be implemented on pilot mode for initial one lakh grid connected agriculture pumps and accordingly, initially this capacity will be allocated by MNRE to implementing agencies based on their demand and readiness for implementation of the component. Pilot projects will be continuously monitored during implementation and also on completion to evaluate the success of pilot run and a detailed report will be prepared for recommending further scaling up of the capacity under this component. Such evaluation may be done internally or through external agency as per decision of the MNRE.

Implementing agencies will submit proposals through online portal to MNRE for approval. Offline proposals will not be accepted, unless MNRE has given a general exemption from the requirement of online submission for any specific period of time.

Proposals for new installations will only be considered by the Screening Committee. Proposals wherein the pumps are already solarized prior to sanction of MNRE will not be considered for approval under the Scheme by the Screening Committee.

MNRE may specify either a centralized tendering of solarisation system through Central PSUs or by the State Implementation Agencies. These CPSUs or State Implementation agencies will carry out tendering process as per the Guidelines, standards and specifications issued by MNRE. Any deviation shall normally be not permissible except in specific cases with the approval of Secretary, MNRE

In case of centralized procurement the designated CPSUs may come out with region-wise/State-wise tenders, however, their role will be limited to selection of bidders. The selection of beneficiaries and implementation of scheme would be the responsibility of the State Implementation Agency.

In all cases, the bids shall require the successful bidder to provide for AMC for five years from the date of installation, helpline, district level service centres and comply standards of performance in dealing with complaints.

The Implementation Agency would also be responsible for carrying out publicity of the scheme so as to increase awareness amongst potential beneficiaries. For this purpose, apart from their own publicity content, they shall also be guided by advice of MNRE on this matter.

b. Installation timeline and Penalties

Projects for solarisation of pumping systems shall be completed within 12 months from the date of sanction by MNRE. However, for North Eastern States including Sikkim, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Lakshadweep and A&N Islands this time limit will be 15 months from the date of sanction. Extension in project completion timelines, up to a maximum period of three months, will be considered at the level of Group Head in MNRE and upto 6 months at the level of Secretary in MNRE on submission of valid reasons by the implementing agency. However, such extension will attract reduction in service charges to implementing agency as under:

- a. 10% reduction in applicable service charges for delay of more than one month in completion of project.
- b. Further reduction of 10% of service charges for delay of more than two month and up to three months.
- c. Further reduction of 10% of service charges for delay of more than three month and up to six months
- d. No service charges for delay in completion of more than six months.

No extension will be granted beyond six months and only the systems which are installed in all respects and commissioned within stipulated time period will be considered for release of CFA.



The implementing agencies after submitting proposal to MNRE may choose to start the preparatory activities including tendering process. However, the Letter of Award/Purchase Order shall be placed to the selected vendor(s) only after the issue of sanction letter by MNRE. Further, MNRE will not be responsible for any liabilities arising out of a situation where the proposal is eventually rejected.

c. Release of funds

Funds up to 40% of the applicable CFA for the sanctioned quantity would be released as advance to the implementing agency only after placement of letter of award(s) to the selected vendors. The implementing agencies may pass on this fund to the selected vendors in different stages on achievement of various milestones as per terms and conditions of letter of award(s). Second installment up to 30% of the applicable CFA would be released on submission of UCs and SoE for the first release. The balance eligible CFA along with applicable service charges would be released on acceptance of the Project Completion Report in the prescribed format, Utilization Certificates as per GFR and other related documents by the Ministry.

d. Monitoring and maintenance

Selected vendors shall be responsible for all aspects of solarisation viz., design, supply, installation and commissioning. Vendors will mandatorily provide AMC for a period of 5 years from the date of commissioning of the systems including insurance coverage for the installed systems against natural calamities and theft. AMC will include submission of quarterly inspection report of the installation as per prescribed format. To ensure timely maintenance of the systems the vendor shall have one authorised service centre in each operational district and a helpline in local language in each operational State.

Under the Programme along with solarisation, the vendor shall also provide a remote monitoring system. It will be mandatory to submit quarterly maintenance report along with performance data of solar power plant online to MNRE in a manner and format prescribed by MNRE.

Monitoring of the Scheme and its implementation will be carried out during the period of implementation of the Scheme as is given below:

- i. The implementing agency would be responsible for monitoring parameters such as end-use verification and compilation of statistical information.
- ii. Implementing agencies will submit monthly progress report for the sanctioned projects.
- iii. Funds may be released by implementing agency to the vendor on submission of bank guarantee equivalent to 10% of the cost of systems installed by that vendor for a period of five years. Alternatively, BG may be provided initially for a period of two years which may be extended on year to year basis thereafter.
- iv. The Ministry officials or designated agency may inspect the ongoing installation or installed plants. In case the installed systems are not as per standards, non-functional on account of poor quality of installation, or non-compliance of AMC, the Ministry reserves the right to blacklist the vendor. Blacklisting may inter-alia include the following:

- a. The Vendor/Firm will not be eligible to participate in tenders for Government supported projects.
- b. In case, the concerned Director(s) of the firm/company joins another existing or starts/ joins a new firm/company, the company will automatically be blacklisted.

e. Responsibilities of Implementation Agency

The Implementing Agencies will be responsible for the following activities:

- i. Issue additional instructions/ conditions such as minimum solarisation level of feeder.
- ii. Issue connectivity standards/regulations, if required, and facilitate connection to the grid.
- iii. Selection of feeder for solarisation and demand aggregation for solarisation of pumps.
- iv. Prepare proposal and submit to MNRE for sanction
- v. Conduct tendering process as per MNRE guidelines
- vi. Oversee installation of systems.
- vii. Inspection of installed systems and online submission of completion reports to MNRE.
- viii. Disbursement of MNRE CFA and submission of utilization certificates and audited statement of expenditure through EAT module.
- ix. Online submission of monthly and quarterly progress reports.
- x. Ensure project completion within the given timelines and compliance of MNRE Guidelines and Standards.
- xi. Online and offline maintenance for records.
- xii. Real time monitoring through dedicated web-portal
- xiii. Performance monitoring of installed system through third party
- xiv. Ensure compliance of AMC and training of locals by the vendors.
- xv. Carrying out publicity of the scheme so as to increase awareness, for which purpose advice of MNRE may also be adopted apart from its own publicity.
- xvi. Any other activity to ensure successful implementation of the programme.

4. Quality Assurance and Evaluation Mechanism

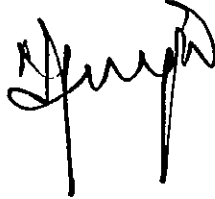
Systems installed under this Programme should meet technical specification and construction standards as specified by BIS and MNRE from time to time. Non-compliance will be taken seriously to the extent of blacklisting of the vendor, in the same manner as specified, apart from taking action under any other law in force. In case of centralized tendering the CPSUs will be responsible for performance evaluation of the selected vendors. Evaluation of pilot implementation of Component-A and Component-C will be carried out through third party selected for this purpose. In order to ensure, the scheme meets expected outcomes continues evaluation of scheme would be undertaken and mid-course correction, as required, shall be implemented.



5. Interpretation of the Guidelines

In case of any ambiguity in interpretation of any of the provisions of these guidelines, the decision of the Ministry shall be final.

The Guidelines would be reviewed by the Ministry from time to time and necessary modifications would be incorporated after getting approval of Minister, NRE.

A handwritten signature in black ink, appearing to be a stylized name, possibly 'S. Prasad', written in a cursive style.

Phase I only
MR. O
09/10/19
M

F. No. 32/54/2018- SPV Division
Government of India
Ministry of New & Renewable Energy

Block No.14, CGO Complex
Lodi Road, New Delhi 110003
Dated: 03 October 2019

ORDER

Subject: Sanction of Decentralised Ground Mounted Grid Connected Renewable Power Plants in Punjab under Component-A of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM)

Agarwal
17/10/19

With reference to demand received from the Government of Punjab vide letter no. 10679 dated 03.09.2019 for Decentralised Ground Mounted Grid Connected Renewable Power Plants under Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM) Scheme, I am directed to convey the sanction of President of India for 30 MW capacity to Punjab Energy Development Agency (PEDA), the State Implementing Agency under Component-A of PM KUSUM Scheme.

2. The project commissioning timeline shall be as mentioned in the Guidelines for implementation of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan issued vide order no. 32/645/2017-SPV Division dated 22.07.2019 (copy attached). PEDA shall submit progress reports and completion reports on the online portal for off-grid solar programme.
3. PEDA shall follow all the terms and conditions stipulated in the Guidelines of the above mentioned Scheme issued vide Order no. 32/645/2017-SPV Division dated 22.07.2019 and amendments thereof.
4. PEDA shall carry out various activities as mentioned under Section on Responsibilities of State Implementation Agency under Component-A of the Guidelines, including creating awareness about the scheme. MNRE may retain a certain amount from service charge for nation-wide centralised IEC activities.
5. Concerned distribution company(ies) will be eligible to get Procurement Based Incentive (PBI) @ Rs. 0.40 per unit purchased or Rs. 6.6 lakh per MW of capacity installed, whichever is less, for a period of five years from the COD. PEDA shall submit requisite documents as mentioned in the Scheme Guidelines after completion of one year from the COD and every year thereafter till five years.
6. PEDA will also coordinate with State Government, Discom(s) and farmers for implementation of the scheme. PEDA will assist the farmers in project development activities including formulation of DPR, PPA/EPC contracts, getting funds from financial institutions, etc. To these activities, PEDA will be eligible to get service charge of Rs.0.25 Lakh per MW after commissioning of the projects.

Punjab Energy Dev. Agency
Chandigarh

Diary No. 4416

[Handwritten Signature]

7. PEDDA/Discom(s) shall be liable for recovery of the whole or part amount of the CFA, with applicable penal interest, in case of non-compliance of the provisions of the Scheme/Sanction.

8. In terms of Rule 230 (7) of GFR 2017 and instructions of DoE, PEDDA/Discom shall record the receipt of incentives and the expenditure therefrom in the EAT module of PFMS.

9. In terms of the Rule 230 (1) of GFR, concerned PEDDA will certify that they have not obtained or applied for grants for the same purpose or activity from any other Ministry or Department of the Government of India or State Government.

10. In terms of provisions contained in Rule 236(i) of GFR 2017, the account of PEDDA/Discom(s) shall be open to inspection by the sanctioning authority and audit (both by CAG of India and Internal Audit by the Principal Accounts Office of the MNRE), whenever the organization is called upon to do so.

11. PEDDA will furnish year wise Utilization Certificate (UC) in the prescribed format of GFR-12(A) and Audited Statement of Expenditure (ASoE) along with detailed progress report periodically as per provisions of the scheme.

12. As per Rule 234 of GFR-2017, the sanction has been entered at S. No. 03 & Page No. 18 in the Expenditure Register of this Division.

13. This issues with the approval of Competent Authority.



(Shobhit Srivastava)
Scientist C

Phone No: 011-24360707/1016

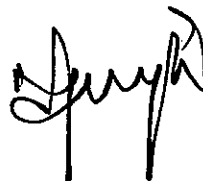
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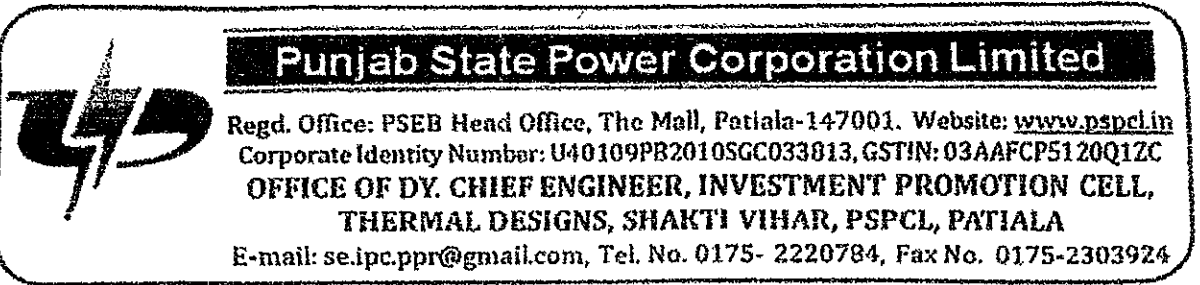
Director, Punjab Energy Development Agency (PEDDA)

Copy to:

1. Principal Director of Audit, Scientific Dept., DG, ACR Building, IP Estate, N. Delhi
2. AG, CW & M.II (Science Audit), AGCR Building, New Delhi
3. Pay and Accounts Officer, MNRE
4. IFD, MNRE

Sanction folder



Memo No.: 240 /IPC-Dated: 13/02/20

To

The Chief Executive,
 Punjab Energy Development Agency (PEDA),
 Solar Passive Complex,
 Plot no. 1-2, Sec 33-D, Chandigarh.

**Sub: Filing of Petition before Hon'ble PSERC for Determination of Levelised
 Generic Tariff for Component-A of PM-KUSUM Scheme.**

Ref: Your Letter No. 810 Dated 29/01/2020

In respect of subject cited matter, the following points needs be incorporated in the petition:

- (1) Rate of Depreciation (1 to 13 years) be taken as 5.28% instead of 5.83%.
- (2) Rate of Depreciation (14 to 25 years) be taken as 1.78% instead of 1.67%.
- (3) Income Tax rate for new domestic electricity generation firms, has been **reduced from 25% to 15%** in the latest Budget if project is commissioned before March 2023 & no MAT is payable by these companies (Copy attached), the same be incorporated in the petition for getting the benefit of reduced taxes.
- (4) CUF be taken as 19%.

In view of above, it is requested to incorporate the above changes in the petition.

This is issued with the approval of competent authority

M. Singh
 Dy. Chief Engineer,
 Investment Promotion Cell,
 PSPCL, Patiala

RE Tariff Regulations 2017-20**16. Return on Equity**

(1) The value base for the equity shall be 30% of the capital cost or actual equity (incase of project specific tariff determination) as determined under Regulation 13.

(2) The normative Return on Equity shall be 14%, to be grossed up by prevailing Minimum Alternate Tax (MAT) as on 1st April of previous year for the entire useful life of the project.

SuoMotu Determination 2017-18 (Page 21-22)**RETURN ON EQUITY**

20. Sub-Regulation (2) of Regulation 16 of the RE Tariff Regulations, as defined below, stipulates the normative Return on Equity (ROE) as 17.56% (after grossing up by prevailing MAT rate of 20.26%² (Avg. MAT rate) as on 1 April 2016) for the useful life of the project.

Regulation 16 (2): The normative Return on Equity shall be 14 %, to be grossed up by prevailing MAT as on 1st April of previous year for the entire useful life of the project.

ROE = $ROE / (1 - IT \text{ Rate}) = 14\% / (100 - 20.26\%) = 17.555706$ say 17.56% or 17.6%

Revised ROE = $14\% / (100 - 15\%) = 16.470588$ say **16.47%**

Annexure P-V

CUF of solar power plants of capacity 1 to 4 MW installed in Punjab since the year 2014 to 2017 as per power purchased by PSPCL during 2017-18

Sr. No.	Name of solar power Project	Installation year	Installed capacity (MW)	Offer to PSPCL (MW)	Energy exported (MU)	CUF during 2017-18	CUF during setting up year of the project
1	Abundant Energy, China Bidhi Chand Sur Singh	2015	2	2	2.62	14.95	15.26
2	Radiant, Pathrala, Bathinda	2016	3	3	4.06	15.45	15.61
3	Abundant Energy-II	2016	1	1	1.37	15.64	15.80
4	IK Energy, Lallian Kalan	2015	1	1	1.38	15.75	16.07
5	Azure Power-III (Punjab Sikha wala)	2014	4	4	5.57	15.90	16.38
6	Nextgen Solux-II Jhunir Kalan	2016	1	1	1.4	15.98	16.14
7	Omega infra. Chaurwala, Fatehgarh Sahib	2017	1	1	1.41	16.10	16.10
8	SAM SOLAR P. Ltd Nidampur, Sangrur	2017	2.5	2.5	3.55	16.21	16.21
9	Welspun Energy – IV Tiona	2015	4	4	5.77	16.47	16.80
10	Allianz Ecopower, Mirpur Kalan, Sardulgarh	2015	2	2	2.91	16.61	16.95
11	Oasis green, Bahadupur, Budhlada	2016	3	3	4.42	16.82	16.99
12	Madhav Solar, Boha, Budlada	2014	2	2	2.98	17.01	17.53
13	Vivaan Solar P. Ltd. Bajak	2016	2	2	2.98	17.01	17.18
14	Astor Solar, Jhunir, Mansa	2016	1	1	1.49	17.01	17.18
15	Mokia Green Energy Pvt. Ltd. Boha	2015	4	4	5.96	17.01	17.35
16	Purshotam Ind. Bajak	2016	3	3	4.48	17.05	17.22
17	Magnificent Power, Jhunir	2016	1	1	1.53	17.47	17.64
18	JSSK Energy, Bhagsar	2015	1	1	1.54	17.58	17.94
19	Aditya Medi sales, Lalpur	2015	4	4	6.16	17.58	17.94
20	Atma powers lakewali	2015	2	2	3.11	17.75	18.11
21	Nextgen Solux-I Mirpur Kalan	2015	1	1	1.56	17.81	18.17
22	Continental Eng & Power Ltd. Kotshmir	2016	1	1	1.55	17.69	17.87
23	Madhav Solar, Boha, Budlada	2014	2	2	3.15	17.98	18.53
24	Northstar Solar Power Pvt. Ltd., Pathrala	2015	4	4	6.26	17.87	18.23
25	Focal CAL Energy Nangla, Talwandi Sabo	2015	4	4	6.34	18.09	18.46
26	TR Energy, Jandwala Mirsangla, Fazilka	2015	2	2	3.26	18.61	18.99
27	TR Energy, Pathrala, Bathinda	2016	1	1	1.68	19.18	19.37
	Total capacity and Average CUF		59.5	59.5	88.49	16.98	17.26

CUF of solar power plants of capacity 1 to 4 MW installed in Punjab since the year 2014 to 2017 as per power purchased by PSPCL during 2018-19.

Sr. No.	Name of solar power Project	Year of Instalation	Capacity (MW)	Offer to PSPCL (MW)	Energy Procured by PSPCL (MU)	CUF during 2018-19	CUF during setting up year of the project
1	Radiant, Pathrala, Bathinda	2016	3	3	3.95	15.03	15.34
2	Abundant Energy-II	2016	1	1	1.34	15.30	15.61
3	Welspun Energy – IV Tiona	2015	4	4	5.43	15.50	15.97
4	SAM SOLAR P. Ltd Nidampur, Sangrur	2017	2.5	2.5	3.4	15.53	15.68
5	Azure Power-III (Punjab Sikha wala)	2014	4	4	5.46	15.58	16.22
6	IK Energy, Lallian Kalan	2015	1	1	1.38	15.75	16.24
7	Omega infra. Chaurwala, Fatehgarh Sahib	2017	1	1	1.38	15.75	15.91
8	Allianz Ecopower, Mirpur Kalan, Sardulgarh	2015	2	2	2.77	15.81	16.29
9	Oasis green, Bahadupur, Budhlada	2016	3	3	4.18	15.91	16.23
10	Madhav Solar, Boha, Budlada	2014	2	2	2.81	16.04	16.70
11	Welspun Tiona	2016	2	2	2.85	16.27	16.60
12	Northstar Solar Power Pvt. Ltd., Pathrala	2015	4	4	5.83	16.64	17.15
13	Aditya Modi sales, Lalpur	2015	4	4	5.85	16.70	17.21
14	Madhav Solar, Boha, Budlada	2014	2	2	2.93	16.72	17.41
15	Purshotam Ind. Bajak	2016	3	3	4.41	16.78	17.12
16	Vivaan Solar P. Ltd. Bajak	2016	2	2	2.95	16.84	17.18
17	Mokia Green Energy Pvt. Ltd. Boha	2015	4	4	5.91	16.87	17.38
18	Atma powers lakewali	2015	2	2	2.96	16.89	17.41
19	Continental Eng & Power Ltd. Kotshmir	2016	1	1	1.51	17.24	17.59
20	Nextgen Solux-II Jhunir Kalan	2016	1	1	1.51	17.24	17.59
21	Focal CAL Energy Nangla, Talwandi Sabo	2015	4	4	6.05	17.27	17.79
22	Nextgen Solux-I Mirpur Kalan	2015	1	1	1.52	17.35	17.88
23	JSSK Energy, Bhagsar	2015	1	1	1.52	17.35	17.88
24	TR Energy, Jandwala Mirsangla, Fazilka	2015	2	2	3.07	17.52	18.06
25	Magnificent Power, Jhunir	2016	1	1	1.54	17.58	18.12
26	TR Energy, Pathrala, Bathinda	2016	1	1	1.56	17.81	18.17
27	Astor Solar, Jhunir, Mansa	2016	1	1	1.59	18.15	18.52
	Total capacity and Average CUF		59.5	59.5	85.66	16.43	17.01

CUF of the projects, power purchase by PSPCL during 2017-18 = 17.26%
 UF of the projects, power purchase by PSPCL during 2018-19 = 17.01%
 Aggregate CUF = $(17.26 + 17.01) / 2 = 17.14\%$

IN THE PUNJAB STATE ELECTRICITY REGULATORY COMMISSION AT CHANDIGARH

In re:

<i>Punjab Energy Development Agency</i>	}	Appellant or Petitioner
		Plaintiff
VERSUS		
	}	Defendant
		Respondent

KNOW ALL to whom these presents shall come that I/We, the undersigned appoint

ADITYA GROVER, ARJUN GROVER & POOJA R. SHARMA
P-754/2005 P-2186/2014 P-457/2018

ADVOCATES

M:9356266033 M:9814976813 M:9316224636

OFFICE: H. NO. 31, SECTOR-11, PANCHKULA (HARYANA)-134109.

Email: adityagrover2008@gmail.com

- To be the Advocate for the *Petitioner*
- in the above mentioned case to do all the following acts, deeds and things or any them, that is to say :-
1. To act, appear and plead in the above mentioned case in this Court or any other Court in which the same may be tried or heard in the first instance or in Appeal or Letters Patent Appeal or Review or Revision or Execution or in any other stage of its progress until its final decision.
 2. To present pleadings, Appeals, Letters Patent Appeals, Petition for Appeal, Cross-Objections or petitions for executions, review, revisions, withdrawal, compromise, to other petitions or affidavits or other documents as shall be deemed necessary or advisable for the prosecution of the said case in all its stages.
 3. To withdraw or compromise the said case or submit to arbitration, any differences or disputes, that shall arise touching or in any manner relating to the said case.
 4. To receive moneys and grant receipts thereof and to do all other acts and things which may be necessary to be done for the progress and in the course of the prosecution of the said case.
 5. To employ any other Legal Practitioner/Advocate authorizing him to exercise the powers and authorities hereby conferred on the Advocate whenever he may think fit to do so.

And I/We hereby agrees to rectify whatever the Advocate or his substitute shall do in these premises and in this connection.

And I/We hereby agrees not to hold the Advocate or his substitute responsible for the result of the said case in consequence of his absence from the Court when the said case is called up for hearing.

And I/We hereby agree that in the event of the whole or any part of the fee agreed by me/us to be paid to the Advocate remaining unpaid, he shall be entitled to withdraw from the prosecution of the said cause until the same is paid.

And I/We hereby agree that the Advocate will not be bound to appear for us if the case is transferred to any other Court or the Court sits at any place other then its normal place of setting.

IN WITNESS WHEREOF, I/WE hereunto set my/our hands to these presents, the contents of which have been explained to and understood be me/us.

This the Day of2020

Accepted

ADITYA GROVER, ARJUN GROVER & POOJA R. SHARMA
ADVOCATES

(Signature/thumb impression of client)



**PUNJAB
ENERGY DEVELOPMENT
AGENCY**
(A Punjab Govt. Undertaking)

No. : 2157

Dated : 5/3/2020

Authority Letter

Sh. M.P Singh, Director, Punjab Energy Development Agency (PEDA) is hereby authorized to sign the petitions to be filed in Punjab State Electricity Regulatory Commission (PSERC) for determination of levellized generic tariff for sale of power to be generated by solar power plants of capacity upto 2MW under Component-A of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) scheme launched by Ministry of New and Renewable Energy (MNRE) Govt. of India.


Navjot Pal Singh Randhawa
Chief Executive, PEDA

SOLAR PASSIVE COMPLEX

PLOT NO. 1-2 SECTOR 33-D CHANDIGARH (U.T.) - 160 034 Tel. : 0172-2663328, 2663382