

SOP FOR IMPLEMENTATION OF PM KUSUM SCHEME OF Ministry of New & Renewable Energy, Government of India in Assam

Component-B(Standalone Solar Pump)



**Prepared by: Assam Energy Development Agency (AEDA), under Science Technology &
Climate Change Department, Government of Assam,
&
State Nodal Agency of Ministry of New & Renewable Energy (MNRE), Government of India**

1. PM KUSUM Scheme

Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyan Yojana (PM-KUSUM) is a flagship scheme of Government of India with an objective to increase the income of farmers and provide easy access to irrigation of farmer's fields by de-dieselisation of the pumping systems in **the agricultural sector**.

- Component-B: Installation of 17.5 Lakh Standalone Solar Agriculture Pumps-4000 pumps allocated to Assam Energy Development Agency(AEDA) by Ministry of New & renewable Energy(MNRE), Government of India
- Component-C: Solarisation of 35 Lakh Grid Connected Agriculture Pumps including Feeder level Solarisation.

[Presently AEDA is going ahead with implementation of Component B]

2. Types of Standalone Solar Pumps to be availed by beneficiaries under Component B

SN	Type of Irrigation	Particulars of items	Financial assistance	Farmers Share
1.	SPV Water Pumping System	2 HP solar water pumping system with existing STW replacing diesel pump sets.	85% of unit cost of each SPV pump set	15% of unit cost of each SPV pump set

3. Financial Assistance

- MNRE, GoI, sanctioned 4000 stand-alone solar agriculture pumps under Component-B of PM-KUSUM Scheme to be implemented by AEDA.
- Initially the programme will start with the launch of only 2 HP Standalone solar Pumps prioritizing the small and marginal farmers of the State
- Funding pattern is 50% Central Financial Assistance (CFA) from Government of India, 35% as State share from State Government.
- Total 85% subsidy on the total cost of Solar Photovoltaic Water Pumping System
- The beneficiaries have to meet the balance 15% of the total cost of Solar Pump i.e (Supply, Installation, Commissioning and 5 years CMC)

4. State Specific Tender for Component B

AEDA would float State specific tender for discovery of rates of solar pumps along with empanelment of vendors.

5. Eligibility criteria for “COMPONENT B” of PM KUSUM?

- Individual farmer/Group of Farmers/Water User association having around 2.00 hectare of contiguous cultivable agricultural land with an existing working boring for assured irrigation will be supported to install standalone solar agriculture pumps for replacement of existing diesel agriculture pumps / irrigation systems in off-grid areas, where grid supply is not available..
- For the State of Assam, MNRE, GoI, sanctioned 4000 units of stand-alone solar agriculture pumps under Component-B of PM-KUSUM.
- 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, farmers using Micro irrigation systems or covered under Micro irrigation schemes or who opt for micro irrigation system.
- In case of group of farmers an agreement to be executed between members as per format enclosed in Annexure-1 for equitable distribution of the water and admissible subsidy shall be in the name of leader of the group. This agreement required to be submitted along with the application.

- e. Farmers should have an existing STW to avail the benefit of the scheme.
- f. Solar Pumps shall be allocated to the eligible farmers on first come first serve basis. Preference shall be given to the farmers having Micro (Drip/Sprinkler) irrigation systems.
- g. Under this Component, individual farmers will be supported to install standalone solar pumps replacing existing diesel pumps or installation of new standalone solar pumps would be allowed under the scheme in off-grid areas.
- h. The beneficiaries, who have already been covered under the scheme during the past seven years, shall not be eligible to get another solar water pumping systems irrespective of its capacity/location.

6. Selection of Beneficiaries

- a. On the discovery of rates of the Solar Water Pumping Systems and empanelment of vendors, AEDA would duly publish advertisement of the scheme for aggregation of beneficiaries in Solar Energy Data management (SEDM) portal for better transparency and successful implementation.
- b. The application procedure will be online in the Solar Energy Data Management (SEDM) portal. No other mode of application shall be entertained by AEDA.
- c. Initially 5000 beneficiaries will be aggregated throughout the State.
- d. Individual farmer/Group of farmers/Water User Associations having around 2.00 hectare of contiguous cultivable agricultural land with an existing working boring for assured irrigation will be supported to install standalone solar water pumps for replacement of existing diesel agriculture pumps / irrigation systems in off-grid areas, where grid supply is not available
- e. Two Committees have been notified for better implementation of the scheme-

- i. **State Level Implementing cum Monitoring Committee (SLIMC)** with Senior-most Secretary, Irrigation as the Chairman and Director, AEDA as the Member Secretary

Senior Most Secretary, Irrigation Department	Chairman
Sr Most Secretary, S&T Department	Member
Sr Most Secretary, Agriculture Department	Member
Commissioner & Secretary/ Secretary, Irrigation Department	Member
Director, AEDA/SIA	Member Secretary
MD, APDCL	Member
CEO, CMSGUY-MMS	Member
Director, AACPMS-CMSGUY	Member
Director, Agriculture	Member
Director, Horticulture	Member
Chief Engineer, Minor Irrigation	Member

- ii. **District Level Implementation cum Monitoring Committee (DLIMC)** with District Commissioner as the Chairman & Executive Engineer Irrigation as the Member Secretary

District Commissioner	Chairman
Ex Engineer (Irrigation)	Member Secretary
Asstt. General Manager, APDCL	Member
District Agriculture Officer	Member
Representative of Implementing Agency(IA)/AEDA	Member
Ex Engineer (Agri Engineering)	Member
District Officer of AACPMS	Member

- f. DLIMC through the District Extension machinery of Irrigation Department facilitate uploading of the eligible applicants into centralized Solar Energy Data Management (SEDM) platform.
- g. The DLIMC will select list of eligible beneficiaries on the basis of eligibility criteria on first come first serve basis.
- h. The DLIMC has the right to reject any application which shall not be fulfilling the eligibility requirements in general including technical requirements i.e. insufficient land, non-providing of bore well of required size & shadow free land in time, depth of water beyond specified limit and dispute of land if any etc.
- i. The DLIMC would examine and recommend the eligible applicants accordingly to State Level Implementation cum Monitoring Committee (SLIMC) for its concurrence.
- j. SLIMC will accord approval of the eligible beneficiaries/ farmers selected by DLIMC.
- k. List of eligible farmer's will be uploaded in AEDA's website i.e. <http://aeda.assam.gov.in>
- l. Eligible Farmer's share will be deposited in the form of bank draft in favour of Director, Assam Energy Development Agency, Payable at Guwahati.

7. Application format for farmer(s)/ applicant(s) in SEDM Portal as follows

- i. Name of Applicant i.e individual farmer or group leader
- ii. Applicant Category
- iii. Father's/Husband Name
- iv. Full address of the applicant (individual farmer or group leader):
 - Village Name
 - Panchayat
 - Block
 - Post Office
 - Pin No
 - Police Station
 - Mobile No.
 - Alternate Mobile No.
 - Email id (if any)
- v. Category of Farmer (General/SC/ST/OBC/Woman/Others):
- vi. Adhaar No
- vii. Capacity & Type of Solar Water Pumping System (SPWPS) applied for:
- viii. Cultivable area for proposed SPWPS (hactre/ bigha)
- ix. Present cropping pattern (drop down menu)
- x. Proposed cropping pattern (drop down menu)
- xi. Detail of Land document of individual farmer or all farmers of the group applied for the SPWPS to be uploaded in SEDM portal (pdf format). (Land Holding Document/ Title deed or Jamabandi or Land Possessing certificate from Gaon Burha or Moujadar as proof of ownership of cultivable area should be uploaded): (drop down menu and upload)
- xii. Details of Existing STW selected for installation of Solar Photovoltaic Water Pumping System (SPWPS)
 - Diameter of Well:
 - Depth of Well:
 - Age of Well:
 - Average Discharge of Well:

- GPS Reading:
 - GPS Reading:
 - Present Condition of the Well:
 - Marking No:
- xiii. Are you applying for a New Solar Pump? (Yes/No)
- xiv. Have you availed solar pump under any Govt. subsidy? (Yes/No)
- xv. Self-attested copies of following documents are to be uploaded

SN	Document to be submitted	Yes/ No
1.	Copy of Aadhar	
2.	Copy of land holding certificate or Title deed or Jamabandi or Land Possessing certificate from Gaon Burha or Moujadar as proof of ownership of cultivable area for proposed STW in the name of applicant farmer(s)	
3.	Copy of caste Certificate for OBC/SC/ST farmers from appropriate authority.	
5.	One copy of recent passport size photo of applicant	

Declaration: All the information and statement furnished above by me/us are true and I/we accept that any misinterpretation contained in it may led to my/our disqualification. I/we understand that decision of according approval or rejection of my/our application shall be binding on me/us.(Yes/No)

Place:

Date:

- m. AEDA would provide Work Order to the empaneled vendor(s) for installation of solar pumps at the selected beneficiary's agricultural land.
- n. AEDA/Contractor shall not be responsible for non-functioning/malfunctioning of the system arising out of misuse and alterations/modifications if any made in the solar pumping system by the farmer.
- o. Any dispute arising out of implementation of the scheme shall be subject to the jurisdiction under Gauhati High Court, Guwahati only.

8. Responsibilities of implementation agency (AEDA):

The Implementing Agency will be responsible for the following activities:

- a. Carry out wide publicity of the scheme to increase awareness, identify potential beneficiaries, and coordinate with banks for easy access of finances.
- b. Demand aggregation for solar Agriculture pumps through online portal and submit beneficiary list to MNRE for demand allocation.
- c. Prepare proposal and submit to MNRE for sanction
- d. Carry-out the state bids/tenders for installation and maintenance of solar pumps sanctioned by MNRE under Component-'B'.
- e. Maintain a separate bank account as per norms of MNRE
- f. Oversee installation of systems.
- g. Inspection of installed systems along with the designated officials of State Irrigation Department and online submission of completion reports to MNRE.
- h. Submission of utilization certificates and audited statement of expenditure through EAT module and disbursement of MNRE CFA.

- i. Submission of utilization certificates and audited statement of expenditure to Department of Science Technology & Climate Change or any other authority from which the state share component is received as per appropriate format.
- j. Online submission of progress reports to MNRE, Govt. of India
- k. Ensure project completion within the given timelines and compliance of MNRE Guidelines and Standards.
- l. Online and offline maintenance for records.
- m. Real time monitoring through MNRE, GoI dedicated Solar Energy Data Management (SEDM) platform
- n. Performance monitoring of installed system through State Irrigation Department.
- o. Ensure compliance of AMC and training of locals by the vendors.
- p. Any other activity to ensure successful implementation of the programme.

Annexure-I

Format for Deed of Agreement for Farmers' Group

(To be executed by the Farmer' Group to cover n command area of 2.00 hectare)

We, the undersigned, members of the Farmer Group/ Water User Association Shri.....(Group Leader/President/ Secretary of the Group of Farmers/Water User Association)
of Vill.....P.O.....P.S.....District.....
applied for Solar Water Pumping System (SPWPS) under PM KUSUM scheme at the identified/selected land. We have contiguous agricultural cultivable land of.....Bigha to cover a command area of 2 ha as per following schedule. This agreement is hereby executed between us for equitable share of water by the solar operated pumping system for irrigation purpose.

Sl. No	Name & Address of member (Farmer)	Land holding (Bigha)	Schedule of land (Dag & Patta No)	Signature

We hereby agreed to share the irrigation water proportionally among us for cultivation from the SPV pump-set applied for. We further declare that the above information are true to the best of our knowledge and binding.

Signature of Group Leader/President/Secretary
(With Seal)

Signature of
members
(Farmer)

Witness

(Name and Address)

.....

Verified By-

AAE/Junior Engineer of Irrigation Department

(* Above document to be uploaded in SEDM portal. A copy of the above document to be retained in Irrigation sub-division)

Flowchart of the SOP

